

COUNT ON US.



PRODUCT CATALOG

PLUMBING FIXTURES & ACCESSORIES





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SECURITY PRODUCTS

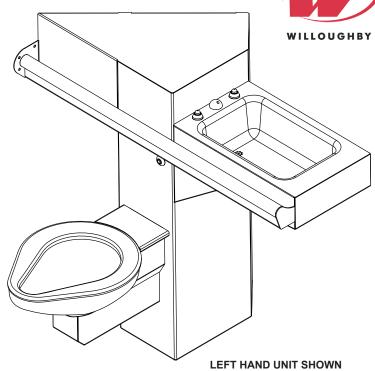


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1545 Series 15" Wide Handicap-ADA Combination Lavatory/ Toilet Units for use on 45 degree chase wall







LEFT HAND UNIT SHOWN
(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet 15" wide handicap combination unit with angled left toilet, on floor, standard ligature-resistant deck mounted bubbler, 1.6 GPF, dual temp, pneumatic metering valve, standard ligature-resistant pneumatic push buttons, lav. elbow waste, lav. fast drain, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, recessed tissue holder, and wall sleeve

Use the following Willoughby Model Number: ECW-1545-L-ON-DMBH-1.6-PML2-PBH-EB-TWE-TWC3P-FV-FVT-RTH-WS

Recommended Specifications

15" Wide Handicap-ADA Combination Lavatory/Toilet Units for use on 45 degree chase wall shall be: Willoughby Model No. **EC__-1545** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel, with an angled design for use on a 45° chase. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:

- Rectangular-shaped bowl, 14" x 9-1/2" x 5" deep
- Stainless steel ligature-resistant bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)

Unit shall include a grab bar with ligature-resistant closure plate; the grab bar will be welded to the fixture and is intended to be anchored to the wall during installation (wall anchors by others). Fixture shall withstand loadings of 5,000 lbs. without permanent damage. Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



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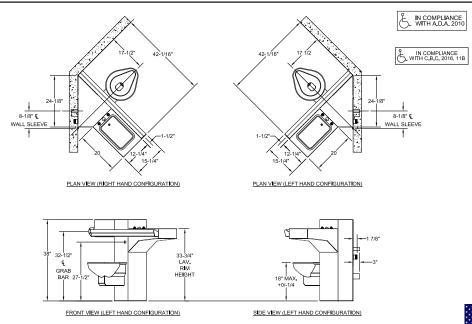
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1.) Toilet W	aste Location:	9.) Lavatory V	/aste:	13	13.) Other Options:			
□ ECW	Wall Outlet	□ EB	Elbow Waste (1-1/2" Plain End)		, T4	Manual Reset Toilet Overflow Preventer, Req. (FV)		
□ ECF	Floor Outlet		(Standard)		T4A	Auto Reset Toilet Overflow Preventer, Req. (FV)		
		□ PT	Integral 'P'-Trap (1-1/2" Plain End)		ET4	Electronic Toilet Overflow Preventer,		
2.) Base Mo	odel Number:	□ LWE	Lavatory Waste Extension			Requires (EFVP) & (WUCC-3010) or (WMSII)		
□ 1545	15" Wide 45° Handicap		(Specify if more than 3")		TFE	Toilet Flush Extension (Specify if more than 1-7/8")		
	Lav-toilet Combination	■ OV	Lavatory Overflow		FVT	Flush Valve Connection		
		CW1	Combined Waste w/o Clean-out		HS	Hinged White Plastic Seat (Not recommended for		
3.) Toilet O	rientation:	□ CW2	Combined Waste w/ Clean-out			Max. Security/Ligature-resistant use; No Cover)		
o L	Angled Left	□ LW1	Thru-Wall Extension, 'P'-Trap		RTHC	Recessed Tissue Holder (Not ADA Compliant)		
□ R	Angled Right	☐ LW2	Thru-Wall Extension & Clean-out			(Behind Toilet)		
	0 0	□ SLOW	Slow Drain		TB1	Single Toothbrush Holder (Opposite toilet bowl)		
4.) Fixture	Mounting:	■ LWC1	Coupling, 1-1/2" Tube to 1-1/2" Tube		TB2	Dual Toothbrush Holder (Opposite toilet bowl)		
□ OF	Off-Floor (ECW only)	☐ LWC2	Coupling, 1-1/2" Tube to 1-1/2" PVC		TH1	Single Towel Hook (Opposite toilet bowl)		
□ ON	On-Floor		/Cast Iron		TH2	Dual Towel Hook (Opposite toilet bowl)		
						Decorator Color (Fixture exterior only - White)		
5.) Bubbler	Selection:	10.) Toilet Was	ste:		TF24H	Hard-wired Transformer, 110VAC to 24VAC*		
,	Ligature-resistant Deck Mounted	□ GWC	Gasketed Waste Connection		TF24P	Plug-in Transformer, 110VAC to 24VAC*		
	Bubbler (Standard)***		(Standard on ECF)		HPS	High Polish Seat		
	(Not for ADA compliant drinking)	□ TWE	Toilet Waste Extension		VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area)		
			(Standard on ECW)			(Under Lav. Bowl)		
6.) Lavator	/ Valve Selection:	□ TW3	3" Clean-out for (TWE)		MT	Wall Template		
□ NV	No Valve	□ TW4	4" Cast Iron Closet Flange			Wall Sleeve (Requires Accessible Chase)		
□ PSL1	Single Temp. Pneumatic Non-metering	□ TW5	4" Clean-out for (TWE)			Ligature-resistant Toilet Skirt, (ON) On-Floor Only***		
□ PSL2	Dual Temp. Pneumatic Non-metering	□ PC3	Pinned Clean-out Plug PVC-3"		TG	12 Gauge Cabinet		
□ PML1	Single Temp. Pneumatic Metering	□ PCB3	Pinned Clean-out Plug Brass-3"		TSC	Toilet Shipping Cover		
□ PML2	Dual Temp. Pneumatic Metering	□ PC4	Pinned Clean-out Plug PVC-4"		LVCP	Ligature-resistant Lavatory Closure Panel***		
□ E1L1	Single Temp. Electronic (Pick Control)	□ PCB4	Pinned Clean-out Plug Brass-4"	_		Less Grab Bar		
□ E1L2	Dual Temp. Electronic (Pick Control)	□ COH4	4" Clean-out Hook, 4" PVC Plug		DFBH	Ligature-resistant Deck Mounted ADA Compliant Drinking		
	fold Options:	□ COHB4	4" Clean-out Hook, 4" Brass Plug	_	DI DI	Fountain Bubbler**/ ***		
	or Electronic Only:	2 001154	4 Oldan out Hook, 4 Didoo Hag			**(Panel Mounted Push Button)		
		11) Waste Co	upling for (TWE) Toilet Waste Extension:	П	Other	(i diloi wodined i don Battori)		
	W/C 2 W/C	☐ TWC3P	Connecting to 3" PVC	_	Othor			
7) Lavator	Push Button Selection:	□ TWC3C	Connecting to 3" Cast Iron	*/F	200 110\	power through ground fault interrupter (GFCI) receptacle /		
□ PBH	Ligature-resistant Pneumatic	☐ TWC4P	Connecting to 4" PVC	,	eaker)	power through ground fault interrupter (Or Or) receptable /		
- 1 Dii	Push Buttons***	□ TWC4C	Connecting to 4" Cast Iron	DIV	Julio1)			
□ PZPB	Ligature-resistant Piezo Electronic	- 111040	Connecting to 4 Gust non	***	LIGATII	RE-RESISTANT DISCLAIMER		
u 1215	Push Buttons***	12.) Flush Val	ve.			ct is designed to minimize ligature points. While every		
	i dan Bullona	•	Hydraulic Flush Valve (Includes Actuator)			been made to reduce the possibility of ligature points, the		
8) Flectron	ic Controls*		☐ 1.28 GPF HET (4.8 Lpf)			es not eliminate all risks. Ligature-Resistant products b		
•	e Electronic Lavatory & Flush Valves):		1.20 GFF (4.0 Lpf)			Industries are to be used in conjunction with, not as a		
□ WUCC-			□ 3.5 GPF (13.2 Lpf)****			nt for, trained professionals.		
- WOCC-	3010 artieditotiic avvivi311		lectronic Flush Valve w/ (PZPB)	10	piaceirie	iit ioi, tialileu professioriais.		
				***	*For rook	acement fixtures only		
			Ligature-resistant Piezo Push Button (Pick Control)*/***		i oi repia	acement natures only		
			□ 1.28 GPF HET (4.8 Lpf)					
			□ 1.6 GPF ULF (6.0 Lpf)					
			□ 1.6 GPF 0LF (6.0 Lp1) □ 3.5 GPF (13.2 Lpf)****					
			L 3.5 GPF (13.2 Lpt)""" No Flush Value (Provided by Others)					

Approved For Manufacturing By:______ Date:_____ Company:_____
Wall Thickness:_____ Wall Type:_____

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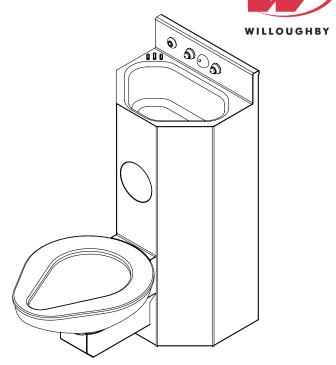
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1546 Series 15" Wide Combination Lavatory/Toilet Units





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet 15" wide combination unit with centered toilet, on floor, standard ligatureresistant filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, lav. elbow waste, lav. fast drain, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, center recessed tissue holder, and wall sleeve

Use the following Willoughby Model Number: ECW-1546-C-ON-BPH-1.6-PML2-PBH-EB-TWE-TWC3P-FV-FVT-RTHC-WS

Recommended Specifications

15" Wide Combination Lavatory/Toilet Units shall be: Willoughby Model No. **EC__-1546** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:

- Multi-sided bowl, 12-3/4" x 8-1/4" x 5" deep
- Stainless steel ligature-resistant bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



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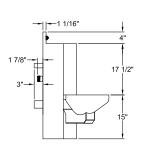
1.) Toilet Waste Location:		9.) Lavatory	Waste:	13.) Other Options:				
□ ECW	Wall Outlet	□ EB	Elbow Waste (1-1/2" Plain End)		T4	Manual Reset Toilet Overflow Preventer, Req. (FV)		
□ ECF	Floor Outlet		(Standard)		T4A	Auto Reset Toilet Overflow Preventer, Req. (FV)		
		□ PT	Integral 'P'-Trap (1-1/2" Plain End)		ET4	Electronic Toilet Overflow Preventer,		
2.) Base M	odel Number:	□ LWE	Lavatory Waste Extension			Requires (EFVP) & (WUCC-3010) or (WMSII)		
■ 1546	15" Wide Lav-toilet Combination		(Specify if more than 3")		TFE	Toilet Flush Extension (Specify if more than 1-7/8")		
		OV	Lavatory Overflow		FVT	Flush Valve Connection		
3.) Toilet O	rientation:	□ CW1	Combined Waste w/o Clean-out		HS	Hinged White Plastic Seat (Not recommended for		
o L	Angled Left	☐ CW2	Combined Waste w/ Clean-out	_	110	Max. Security/Ligature-resistant use; No Cover)		
□ R	Angled Right	☐ LW1	Thru-Wall Extension, 'P'-Trap		DTU	Recessed Tissue Holder		
□ C	Centered	☐ LW2	Thru-Wall Extension & Clean-out	_	1.111			
		□ SLOW	Slow Drain		1011			
4.) Fixture	Mounting:	■ LWC1	Coupling, 1-1/2" Tube to 1-1/2" Tube		ISH	Integral Shelf		
□ OF	Off-Floor (ECW Only)	■ LWC2	Coupling, 1-1/2" Tube to 1-1/2" PVC		1B1	Single Toothbrush Holder		
□ ON	On-Floor		/Cast Iron	_		□L □ R		
					TB2			
5.) Bubble	Selection:	10.) Toilet W	aste:		TH1	Single Towel Hook		
□ BPH	Ligature-resistant Bubbler/Filler	□ GWC	Gasketed Waste Connection			□ L □ LF □ C □ RF □ R		
	(Standard)**		(Standard on ECF)		TH2	Dual Towel Hook		
□ BC	Code Bubbler/Filler (w/ Non Ligature-	□ TWE	Toilet Waste Extension			□ L □ LF □ C □ RF □ R		
	Resistant Mouth Guard)		(Standard on ECW)		DC	Decorator Color (Fixture exterior only - White)		
□ FLH	Ligature-resistant Lav. Filler**	□ TW3	3" Clean-out for (TWE)		TF24H	Hard-wired Transformer, 110VAC to 24VAC*		
	3	□ TW4	4" Cast Iron Closet Flange		TF24P	Plug-in Transformer, 110VAC to 24VAC*		
6.) Lavator	y Valve Selection:	□ TW5	4" Clean-out for (TWE)		HPS	High Polish Seat		
,	,	□ PC3	Pinned Clean-out Plug PVC-3"		VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in ² free area)		
□ NV	No Valve	□ PCB3	Pinned Clean-out Plug Brass-3"			□ L □ LF □ RF □ R		
□ PSL1	Single Temp. Pneumatic Non-metering	□ PC4	Pinned Clean-out Plug PVC-4"		MT	Wall Template		
□ PSL2	Dual Temp. Pneumatic Non-metering	□ PCB4	Pinned Clean-out Plug Brass-4"		WS	Wall Sleeve (Requires Accessible Chase)		
□ PML1	Single Temp. Pneumatic Metering	□ COH4	4" Clean-out Hook, 4" PVC Plug		SK	Ligature-resistant Toilet Skirt, (ON) On-Floor Only**		
□ PML2	Dual Temp. Pneumatic Metering	□ COHB4	4" Clean-out Hook, 4" Brass Plug		TG	12 Gauge Cabinet		
□ E1L1	Single Temp. Electronic (Pick Control)				TSC	Toilet Shipping Cover		
□ E1L2	Dual Temp. Electronic (Pick Control)	11.) Waste C	oupling for (TWE) Toilet Waste Extension:	_	Other			
	ifold Options:	☐ TWC3P	Connecting to 3" PVC		Other			
	ic or Electronic Only:	□ TWC3C	Connecting to 3" Cast Iron	_	Other			
	•	□ TWC4P	Connecting to 4" PVC	*/D	aa 110\	/ names through any and fault intermentar (CECI) recented		
		□ TWC4C	Connecting to 4" Cast Iron	•		/ power through ground fault interrupter (GFCI) receptacle		
7.) Lavator	y Push Button Selection:		Commodating to 1 Cast from	brea	aker)			
□ PBH	Ligature-resistant Pneumatic	12.) Flush Va	alve:			DE DEGICTANT DIGGI AIMED		
	Push Buttons**	□ FV	Hydraulic Flush Valve (Includes Actuator)			RE-RESISTANT DISCLAIMER		
□ PZPB	Ligature-resistant Piezo Electronic		□ 1.28 GPF HET (4.8 Lpf)			ict is designed to minimize ligature points. While ever		
	Push Buttons**		☐ 1.6 GPF ULF (6.0 Lpf)			been made to reduce the possibility of ligature points		
			□ 3.5 GPF (13.2 Lpf)***			ct does not eliminate all risks. Ligature-Resistant		
8.) Flectro	nic Controls*	☐ EFVP	Electronic Flush Valve w/ (PZPB)			y Willoughby Industries are to be used in conjunction		
	se Electronic Lavatory & Flush Valves):		Ligature-resistant Piezo Push Button	with	n, not a	s a replacement for, trained professionals.		
□ WUCC			(Pick Control)*/**					
	2		□ 1.28 GPF HET (4.8 Lpf)	***F	or repla	cement fixtures only		
			□ 1.6 GPF ULF (6.0 Lpf)					
			□ 3.5 GPF (13.2 Lpf)***					
		□ NFV	No Flush Valve (Provided by Others)					
		□ 141 V	110 Flacil valve (Florided by Others)					

Approved For Manufacturing By:______ Date:_____ Company:_____
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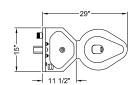
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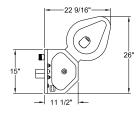
PLAN VIEW LEFT HAND CONFIGURATION



SIDE VIEW



PLAN VIEW CENTER CONFIGURATION



PLAN VIEW RIGHT HAND CONFIGURATION

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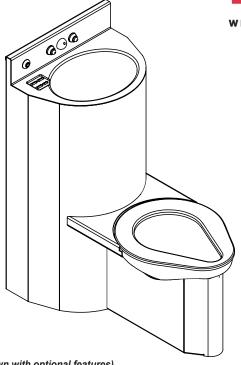
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1806 Series 18" Wide Ligature-resistant Combination Lavatory/Toilet Units





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet ligature-resistant 18" wide combination unit with centered toilet, on floor, standard ligature-resistant filler/bubbler, 1.6 GPF, dual temp, pneumatic metering valve, standard ligature-resistant pneumatic push buttons, lav. elbow waste, lav. slow drain, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, and wall sleeve

Use the following Willoughby Model Number: ECW-1806-C-ON-BPH-1.6-PML2-PBH-EB-SLOW-TWE-TWC3P-FV-FVT-WS

Recommended Specifications

18" Wide Ligature-resistant Combination Lavatory/Toilet Units shall be: Willoughby Model No. **EC__-1806** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel, with a rounded, ligature-resistant design. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Ligature resistant toilet skirt (extends to floor)
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:

- Oval-shaped bowl, 13" x 9-1/2" x 6" deep
- Stainless steel ligature-resistant bubbler/filler
- Slow drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



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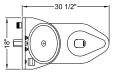
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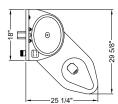
1.) Toilet W	aste Location:	9.) Lavator	y Waste:	13.) Other Options:
□ ECW	Wall Outlet	□ EB	Elbow Waste (1-1/2" Plain End)	□ T4 Manual Reset Toilet Overflow Preventer, Req. (FV)
□ ECF	Floor Outlet		(Standard)	T4A Auto Reset Toilet Overflow Preventer, Req. (FV)
		□ PT	Integral 'P'-Trap (1-1/2" Plain End)	 ET4 Electronic Toilet Overflow Preventer,
2.) Base Mo	odel Number:	□ LWE	Lavatory Waste Extension	Requires (EFVP) & (WUCC-3010) or (WMSII)
□ 1806	18" Wide Ligature-resistant Lav-toilet		(Specify if more than 3")	□ TFE Toilet Flush Extension (Specify if more than 1-7/8")
	Combination**	OV	Lavatory Overflow	□ FVT Flush Valve Connection
		□ CW1	Combined Waste w/o Clean-out	□ RTHRecessed Tissue Holder
3.) Toilet O	rientation:	☐ CW2	Combined Waste w/ Clean-out	□ L □ R
□ L	Angled Left	☐ LW1	Thru-Wall Extension, 'P'-Trap	☐ TH1 Single Towel Hook
□ R	Angled Right	☐ LW2	Thru-Wall Extension & Clean-out	□ L □ R
□ C	Centered	□ SLOW	Slow Drain (Standard)	☐ TH2 Dual Towel Hook
		■ LWC1	Coupling, 1-1/2" Tube to 1-1/2" Tube	□ L □ R
4.) Fixture	Mounting:	■ LWC2	Coupling, 1-1/2" Tube to 1-1/2" PVC	 DC Decorator Color (Fixture exterior only - White)
□ ON	On-Floor (Standard)		/Cast Iron	□ TF24H Hard-wired Transformer, 110VAC to 24VAC*
				□ TF24P Plug-in Transformer, 110VAC to 24VAC*
5.) Bubbler	Selection:	10.) Toilet \	Vaste:	☐ HPS High Polish Seat
■ BPH	Ligature-resistant Bubbler/Filler	■ GWC	Gasketed Waste Connection	■ MT Wall Template
	(Standard)**		(Standard on ECF)	■ WS Wall Sleeve (Requires Accessible Chase)
☐ FLH	Ligature-resistant Lav. Filler**	□ TWE	Toilet Waste Extension	☐ TG 12 Gauge Cabinet
			(Standard on ECW)	□ TSC Toilet Shipping Cover
6.) Lavator	y Valve Selection:	■ TW3	3" Clean-out for (TWE)	□ Other
□ NV	No Valve	☐ TW4	4" Cast Iron Closet Flange	□ Other
□ PSL1	Single Temp. Pneumatic Non-metering	☐ TW5	4" Clean-out for (TWE)	
□ PSL2	Dual Temp. Pneumatic Non-metering	□ PC3	Pinned Clean-out Plug PVC-3"	*(Req. 110V power through ground fault interrupter (GFCI) receptacle /
□ PML1	Single Temp. Pneumatic Metering	□ PCB3	Pinned Clean-out Plug Brass-3"	breaker)
PML2	Dual Temp. Pneumatic Metering	□ PC4	Pinned Clean-out Plug PVC-4"	
□ E1L1	Single Temp. Electronic (Pick Control)	□ PCB4	Pinned Clean-out Plug Brass-4"	**LIGATURE-RESISTANT DISCLAIMER
■ E1L2	Dual Temp. Electronic (Pick Control)	□ COH4	4" Clean-out Hook, 4" PVC Plug	This product is designed to minimize ligature points. While every
Valve Mani	fold Options:	□ COHB4	4" Clean-out Hook, 4" Brass Plug	effort has been made to reduce the possibility of ligature points,
Pneumati	c or Electronic Only:			this product does not eliminate all risks. Ligature-Resistant
	MA2 MA3 MA4		Coupling for (TWE) Toilet Waste Extension:	products by Willoughby Industries are to be used in conjunction
		☐ TWC3F	ŭ	with, not as a replacement for, trained professionals.
,	y Push Button Selection:	☐ TWC30	3	
□ PBH	Ligature-resistant Pneumatic Push Buttons**	☐ TWC4F	9	***For replacement fixtures only
□ PZPB	Ligature-resistant Piezo Electronic	☐ TWC40	Connecting to 4" Cast Iron	
	Push Buttons**			
		12.) Flush \		
,	nic Controls*	☐ FV	Hydraulic Flush Valve (Includes Actuator)	
	se Electronic Lavatory & Flush Valves):		□ 1.28 GPF HET (4.8 Lpf)	
□ WUCC-	-3010 □Pneutronic □WMSII		☐ 1.6 GPF ULF (6.0 Lpf)	
			□ 3.5 GPF (13.2 Lpf)***	
		☐ EFVP	Electronic Flush Valve w/ (PZPB)	
			Ligature-resistant Piezo Push Button	
			(Pick Control)*/**	
			1.28 GPF HET (4.8 Lpf)	
			☐ 1.6 GPF ULF (6.0 Lpf)	
		D NEV	☐ 3.5 GPF (13.2 Lpf)***	
		□ NFV	No Flush Valve (Provided by Others)	
			_	
Appro	ved For Manufacturing By:		Date:	Company:
1 14/ 117	Flat a Long a la la c	14/	- II T	

Wall Type: Wall Thickness:

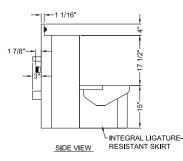
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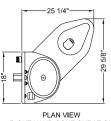


PLAN VIEW
CENTER CONFIGURATION



PLAN VIEW
LEFT HAND CONFIGURATION





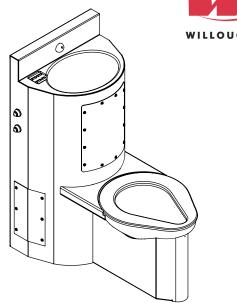
PLAN VIEW RIGHT HAND CONFIGURATION

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1806-FA Series 18" Wide Ligature-resistant Front Access Combination Lavatory/Toilet Units





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet ligature-resistant front-access 18" wide combination unit with center toilet, standard ligature-resistant filler/bubbler, 1.6 GPF, dual temp, pneumatic metering valve, standard ligature-resistant pneumatic push buttons, removable lav. 'p' trap, lav. slow drain, standard gasketed waste connection, hydraulic flush valve, and wall template

Use the following Willoughby Model Number: ECW-1806-FA-C-ON-BPH-1.6-PML2-PBH-RPT-SLOW-GWC-FV

Recommended Specifications

18" Wide Ligature-resistant Front Access Combination Lavatory/Toilet Units shall be: Willoughby Model No. **EC__-1806-FA** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish. Removable access panels, attached w/ security screws shall provide access to fixture interior.

Standard toilet shall include:

- Ligature resistant toilet skirt (extends to floor)
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type which requires 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:

- Oval shaped bowl,13" x 9-1/2" x 6" deep
- Stainless steel ligature-resistant bubbler/filler
- Slow drain with air vent
- Slip-joint brass union 'P'-trap (1-1/2" N.P.T.)
- Self-draining soap dish

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Optionally selected lavatory valve and flush valve shall be factory installed inside fixture cabinet.

Anchoring shall be from the front, anchoring holes provided. Anchoring hardware provided by others. Standard unit requires no chase area for installation and maintenance, however certain non-standard options may require an accessible chase (see options list for details).

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



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1.) Toi	ilet W	aste Location:	9.)	Lavator	y Waste	:	13	.) Other	Options:
□ E0	CW	Wall Outlet		RPT		Removable 'P'-Trap (1-1/2" N.P.T.)		T4	Manual Reset Toilet Overflow Preventer, Req. (FV)
□ E0	CF	Floor Outlet				(Standard)		T4A	Auto Reset Toilet Overflow Preventer, Req. (FV)
				OV		Lavatory Overflow		ET4	Electronic Toilet Overflow Preventer,
2.) Bas	se Mo	odel Number:		CW1		Combined Waste w/o Clean-out			Requires (EFVP) & (WUCC-3010) or (WMSII)
1 8	306-F	18" Wide Ligature-resistant Front		CW2		Combined Waste w/ Clean-out		RTH_	Recessed Tissue Holder
		Access Lav-toilet Combination**		SLOW		Slow Drain (Standard)			_ L
								TH1_	Single Towel Hook
3.) Toi	ilet Oı	rientation:	10	.) Toilet \	Naste:				□ L □ R
□ L		Angled Left		GWC		Gasketed Waste Connection		TH2_	Dual Towel Hook
□ R		Angled Right				(Standard)			□ L □ R
□ C		Centered		TWE		Toilet Waste Extension		DC	Decorator Color (Fixture exterior only - White)
						(Requires Accessible Chase)		TF24H	Hard-wired Transformer, 110VAC to 24VAC*
4.) Fix	cture I	Mounting:						TF24P	Plug-in Transformer, 110VAC to 24VAC*
□ 01	N	On-Floor	11.	.) Waste	Couplin	g for (TWE) Toilet Waste Extension:		HPS	High Polish Seat
				TWC3F)	Connecting to 3" PVC		MT	Wall Template
5.) Bu	bbler	Selection:		TWC3C)	Connecting to 3" Cast Iron		WS	Wall Sleeve (Requires Accessible Chase)
☐ BF	PH	Ligature-resistant Bubbler/Filler		TWC4F)	Connecting to 4" PVC		TG	12 Gauge Cabinet
		(Standard)**		TWC40)	Connecting to 4" Cast Iron		TSC	Toilet Shipping Cover
☐ FL	LH	Ligature-resistant Lav. Filler**						Other	
			12	.) Flush \	/alve:			Other	
6.) Lav	vatory	/ Valve Selection:		FV	Hydra	ulic Flush Valve (Includes Actuator)			
□ N\	V	No Valve			1.2	8 GPF HET (4.8 Lpf)	*(F	Req. 110	V power through ground fault interrupter (GFCI) receptacle
□ P5	SL1	Single Temp. Pneumatic Non-metering			□ 1.6	GPF ULF (6.0 Lpf)	/ b	reaker)	
□ PS	SL2	Dual Temp. Pneumatic Non-metering			□ 3.5	GPF (13.2 Lpf)***			
☐ PN	ML1	Single Temp. Pneumatic Metering		EFVP	Electro	onic Flush Valve w/ (PZPB)	**[LIGATU	RE-RESISTANT DISCLAIMER
☐ PN	ML2	Dual Temp. Pneumatic Metering			Ligatu	re-resistant Piezo Push Button	Th	is prodi	uct is designed to minimize ligature points. While every
□ E1	1L1	Single Temp. Electronic (Pick Control)			(Pick (Control)*/**			been made to reduce the possibility of ligature points,
□ E1	1L2	Dual Temp. Electronic (Pick Control)			□ 1.2	8 GPF HET (4.8 Lpf)	thi	is produ	ct does not eliminate all risks. Ligature-Resistant
					□ 1.6	GPF ULF (6.0 Lpf)	pr	oducts b	by Willoughby Industries are to be used in conjunction
7.) Lav	vatory	Push Button Selection:			□ 3.5	GPF (13.2 Lpf)***	wi	th, not a	as a replacement for, trained professionals.
☐ PE	ВН	Ligature-resistant Pneumatic Push Buttons	;** 🗆	NFV	No Flu	ush Valve (Provided by Others)			
☐ PZ	ZPB	Ligature-resistant Piezo Electronic					***	For repla	acement fixtures only
		Push Buttons**							
o > =:		to account of							
,		ic Controls*							
		e Electronic Lavatory & Flush Valves):							
□ W	UCC-	3010 □Pneutronic □WMSII							

Approved For Manufacturing By: Date: Company:_ Wall Type: Wall Thickness: VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION. FLUSH VALVE PUSH BUTTON 0 FLUSH VALVE PUSHBUTTON PLAN VIEW
CENTER CONFIGURATION PLAN VIEW
LEFT HAND CONFIGURATION PLAN VIEW
RIGHT HAND CONFIGURATION (2) LIGATURE-RESISTANT PUSHBUTTONS BUBBLER -DOUBLE 'D' HOLE T1 1/2" FEMALE I.P.S. LAV. WASTE OUTLET W/ INTEGRAL SLIP-JOINT 'P' TRAP -1 1/2" FEMALE I.P.S. FLUSHING INLET -WASTE CONN. W/ 5 1/4" GASKET FLANGE & (2) 5/16"-18 TAPPINGS INTEGRAL LIGATURE-RESISTANT SKIRT

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REAR VIEW BACK VIEW, ROUGH-IN LOCATIONS

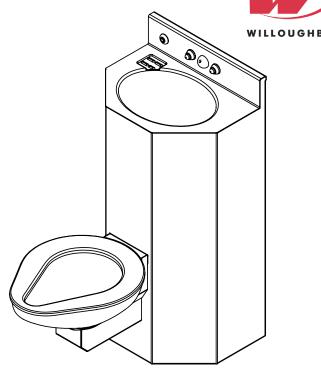
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SIDE VIEW



1846 Series 18" Wide Combination Lavatory/Toilet Units





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet 18" wide combination unit with centered toilet, on floor, standard ligatureresistant filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, lav. elbow waste, lav. fast drain, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, center recessed tissue holder, and wall sleeve

Use the following Willoughby Model Number: ECW-1846-C-ON-BPH-1.6-PML2-PBH-EB-TWE-TWC3P-FV-FVT-RTHC-WS

Recommended Specifications

18" Wide Combination Lavatory/Toilet Units shall be: Willoughby Model No. **EC__-1846** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:

- Oval-shaped bowl, 13" x 9-1/2" x 5-1/2" deep
- Stainless steel ligature-resistant bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



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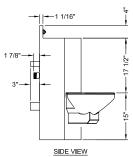
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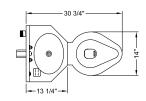
1.) Toilet Waste Location:	9.) Lavatory	Waste:	13.) Other	Options:
□ ECW Wall Outlet	□ EB	Elbow Waste (1-1/2" Plain End)		T4	Manual Reset Toilet Overflow Preventer, Req. (FV)
□ ECF Floor Outlet		(Standard)		T4A	Auto Reset Toilet Overflow Preventer, Req. (FV)
	□ PT	Integral 'P'-Trap (1-1/2" Plain End)		ET4	Electronic Toilet Overflow Preventer,
2.) Base Model Number:	□ LWE	Lavatory Waste Extension			Requires (EFVP) & (WUCC-3010) or (WMSII)
☐ 1846 18" Wide Lav-toilet Combination		(Specify if more than 3")		TFE	Toilet Flush Extension (Specify if more than 1-7/8")
	□ OV	Lavatory Overflow		FVT	Flush Valve Connection
3.) Toilet Orientation:	□ CW1	Combined Waste w/o Clean-out		HS	Hinged White Plastic Seat (Not recommended for
☐ L Angled Left	☐ CW2	Combined Waste w/ Clean-out			Max. Security/Ligature-resistant use; No Cover)
☐ R Angled Right	□ LW1	Thru-Wall Extension, 'P'-Trap		RTH	Recessed Tissue Holder
□ C Centered	☐ LW2	Thru-Wall Extension & Clean-out			
	□ SLOW	Slow Drain		ISH	Integral Shelf
4.) Fixture Mounting:	■ LWC1	Coupling, 1-1/2" Tube to 1-1/2" Tube		TB1_	Single Toothbrush Holder
☐ OF Off-Floor (ECW Only)	☐ LWC2	Coupling, 1-1/2" Tube to 1-1/2" PVC			L R
□ ON On-Floor		/Cast Iron		TB2	Dual Toothbrush Holder
					Single Towel Hook
5.) Bubbler Selection:	10.) Toilet W	/aste:		_	
☐ BPH Ligature-resistant Bubbler/Filler	□ GWC	Gasketed Waste Connection		TH2	Dual Towel Hook
(Standard)		(Standard on ECF)		_	
□ BC Code Bubbler/Filler (w/ Non Ligature-	□ TWE	Toilet Waste Extension		DC	Decorator Color (Fixture exterior only - White)
Resistant Mouth Guard)		(Standard on ECW)		TF24H	
□ FLH Ligature-resistant Lav. Filler	□ TW3	3" Clean-out for (TWE)		TF24P	
J .	□ TW4	4" Cast Iron Closet Flange		HPS	High Polish Seat
6.) Lavatory Valve Selection:	☐ TW5	4" Clean-out for (TWE)		VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area)
NV No Valve	□ PC3	Pinned Clean-out Plug PVC-3"	_		□ L □ LF □ RF □ R
□ PSL1 Single Temp. Pneumatic Non-metering	□ PCB3	Pinned Clean-out Plug Brass-3"		MT	Wall Template
□ PSL2 Dual Temp. Pneumatic Non-metering	□ PC4	Pinned Clean-out Plug PVC-4"		WS	Wall Sleeve (Requires Accessible Chase)
□ PML1 Single Temp. Pneumatic Metering	□ PCB4	Pinned Clean-out Plug Brass-4"		SK	Ligature-resistant Toilet Skirt, (ON) On-Floor Only
□ PML2 Dual Temp. Pneumatic Metering	□ COH4	4" Clean-out Hook, 4" PVC Plug		TG	12 Gauge Cabinet
☐ E1L1 Single Temp. Electronic (Pick Control)	□ COHB4	4" Clean-out Hook, 4" Brass Plug		TSC	Toilet Shipping Cover
☐ E1L2 Dual Temp. Electronic (Pick Control)		, ,		Other	
Valve Manifold Options:	11.) Waste (Coupling for (TWE) Toilet Waste Extension:	_	Other	
Pneumatic or Electronic Only:	☐ TWC3P	Connecting to 3" PVC			
□ MA2 □ MA3 □ MA4	☐ TWC3C	Connecting to 3" Cast Iron	*(F	Rea. 110	V power through ground fault interrupter (GFCI) receptacle /
	☐ TWC4P	Connecting to 4" PVC		eaker)	1 3 3 1 (3 3 7 1 1
7.) Lavatory Push Button Selection:	□ TWC4C	Connecting to 4" Cast Iron		,	
□ PBH Ligature-resistant Pneumatic		ů ů	**L	.IGATU	IRE-RESISTANT DISCLAIMER
Push Buttons	12.) Flush V	alve:	Th	is prod	uct is designed to minimize ligature points. While every
□ PZPB Ligature-resistant Piezo Electronic	□´FV	Hydraulic Flush Valve (Includes Actuator)	eff	ort has	been made to reduce the possibility of ligature points,
Push Buttons		1.28 GPF HET (4.8 Lpf)	thi	s produ	uct does not eliminate all risks. Ligature-Resistant
. doi: Battolio		☐ 1.6 GPF ULF (6.0 Lpf)	pro	ducts	by Willoughby Industries are to be used in conjunction
8.) Electronic Controls*		□ 3.5 GPF (13.2 Lpf)***			as a replacement for, trained professionals.
(Must Use Electronic Lavatory & Flush Valves):	□ EFVP	Electronic Flush Valve w/ (PZPB)			
□ WUCC-3010 □Pneutronic □WMSII		Ligature-resistant Piezo Push Button	***	For repl	acement fixtures only
		(Pick Control)*/**			•
		☐ 1.28 GPF HET (4.8 Lpf)			
		☐ 1.6 GPF ULF (6.0 Lpf)			
		□ 3.5 GPF (13.2 Lpf)***			
	□ NFV	No Flush Valve (Provided by Others)			
		` , ,			
Ammerical For Monrifo et mirror Driv		Deter			Camananii
Approved For Manufacturing By:		Date:			_ Company:
Mall Thickness	11/	JI Type			

Wall Type

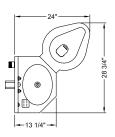
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PLAN VIEW CENTER CONFIGURATION



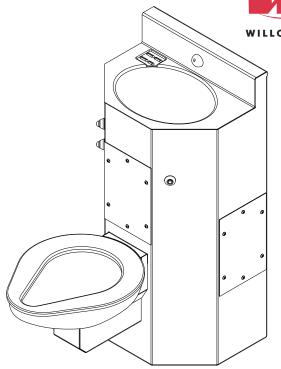
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1846-FA Series 18" Wide Front Access Combination Lavatory/Toilet Units





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet front access 18" wide combination unit with centered toilet, standard ligature-resistant filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, removable lav. 'p' trap, lav, fast drain, standard gasketed waste connection, hydraulic flush valve, left recessed tissue holder (for Centered toilet), and wall template

Use the following Willoughby Model Number: ECW-1846-FA-C-ON-BPH-1.6-PML2-PBH-RPT-GWC-FV-RTHL-MT

Recommended Specifications

18" Wide Front Access Combination Lavatory/Toilet Units shall be: Willoughby Model No. **EC__-1846-FA** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish. Removable access panels, attached w/ security screws, shall provide access to fixture interior.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:

- Oval-shaped bowl, 13" x 9-1/2" x 5-1/2" deep
- Stainless steel ligature-resistant bubbler/filler
- Fast drain with air vent
- Removable slip-joint brass union 'P' trap (1-1/2" N.P.T.)
- Self-draining soap dish

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Optionally selected lavatory valve and flush valve shall be factory installed inside fixture cabinet.

Anchoring shall be from the front, anchoring holes provided. Anchoring hardware provided by others. Standard unit requires no chase area for installation and maintenance, however certain non-standard options may require an accessible chase (see options list for details).

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



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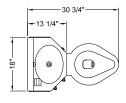


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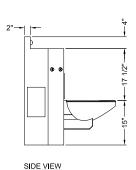
L								
1	.) Toilet W	/aste Location:	9.) Lavato	ry Waste	:	13	.) Other	Options:
	ECW	Wall Outlet	□ RPT		Removable 'P'-Trap (1-1/2" N.P.T.)		T4	Manual Reset Toilet Overflow Preventer, Req. (FV)
	1 ECF	Floor Outlet			(Standard)		T4A	Auto Reset Toilet Overflow Preventer, Req. (FV)
			OV		Lavatory Overflow		ET4	Electronic Toilet Overflow Preventer,
2	.) Base M	odel Number:	□ CW1		Combined Waste w/o Clean-out			Requires (EFVP) & (WUCC-3010) or (WMSII)
	, 1 1846-F	A 18" Wide Front Access Lav-toilet	□ CW2		Combined Waste w/ Clean-out		HS	Hinged White Plastic Seat (Not recommended for
		Combination	□ SLOW	1	Slow Drain			Max. Security/Ligature-resistant use; No Cover)
							RTH	Recessed Tissue Holder
3	.) Toilet O	rientation:	10.) Toilet	Waste:				□ L -Left Side Holder for C & R Toilet Orientation
	Ĺ	Angled Left	□ GWC		Gasketed Waste Connection			☐ R -Right Side Holder for L Toilet Orientation
С	ı R	Angled Right			(Standard)		ISH	Integral Shelf
	1 C	Centered	□ TWE		Toilet Waste Extension			Single Toothbrush Holder
_		06.11.01.01			(Requires Accessible Chase)	_		□L □ R
4) Fixture	Mounting:	□ TW4		4" Cast Iron Closet Flange		TB2	Dual Toothbrush Holder
	I ON	On-Floor			. Gast non Gisset Hangs			Single Towel Hook
_		011 1 1001	11) Waste	Counlin	g for (TWE) Toilet Waste Extension:	_		
5) Bubble	r Selection:	□ TWC3		Connecting to 3" PVC	П	TH2	Dual Towel Hook
	BPH	Ligature-resistant Bubbler/Filler	☐ TWC3		Connecting to 3" Cast Iron	_		
_		(Standard)**	☐ TWC4		Connecting to 4" PVC		DC	Decorator Color (Fixture exterior only - White)
Г	BC	Code Bubbler/Filler (w/ Non Ligature-	☐ TWC4		Connecting to 4" Cast Iron			Hard-wired Transformer, 110VAC to 24VAC*
_	. 50	Resistant Mouth Guard)	- 10004	.0	Connecting to 4 Cast non		TF24P	
г) FLH	Ligature-resistant Lav. Filler**	12.) Flush	Valvo:		_	HPS	High Polish Seat
_	4 I LII	Ligature-resistant Lav. I iller	□ FV		ulic Flush Valve (Includes Actuator)		VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area)
6	\ Lavator	y Valve Selection:	□ FV			_	VG	
	.) Lavatoi I NV	No Valve			8 GPF HET (4.8 Lpf) GPF ULF (6.0 Lpf)		MT	Wall Template
		Single Temp. Pneumatic Non-metering				_		Wall Sleeve (Requires Accessible Chase)
_		• .	□ EFVP		GPF (13.2 Lpf)*** onic Flush Valve w/ (PZPB)	_	SK	Ligature-resistant Toilet Skirt**
			U EFVP		,			12 Gauge Cabinet
		• .			re-resistant Piezo Push Button			Toilet Shipping Cover
		Single Temp. Electronic (Pick Control)		*	Control)*/**		Other	Tollet Shipping Cover
					8 GPF HET (4.8 Lpf)			
_	1 E1L2	Dual Temp. Electronic (Pick Control)			GPF ULF (6.0 Lpf)		Other	
_	\	Buck Button Colontinu			GPF (13.2 Lpf)***	*/□		/
	,	y Push Button Selection:	□ NFV	No Flu	sh Valve (Provided by Others)	,		/ power through ground fault interrupter (GFCI) receptacle
) PBH	Ligature-resistant Pneumatic Push Buttons*				/ D	reaker)	
_) PZPB	Ligature-resistant Piezo Electronic				441	IO ATL	DE DEGICTANT DIGGI AIMED
		Push Buttons**						RE-RESISTANT DISCLAIMER
_								uct is designed to minimize ligature points. While eve
8		nic Controls*						been made to reduce the possibility of ligature points
_		se Electronic Lavatory & Flush Valves):						ct does not eliminate all risks. Ligature-Resistant
_	WUCC	-3010 □Pneutronic □WMSII						by Willoughby Industries are to be used in conjunction
						WI	ın, not a	s a replacement for, trained professionals.
						4.11		
						***	For repla	acement fixtures only

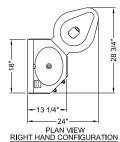
Approved For Manufacturing By:_ Date: Company:_ Wall Thickness: _ Wall Type:

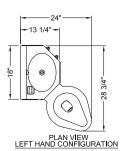
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PLAN VIEW CENTER CONFIGURATION







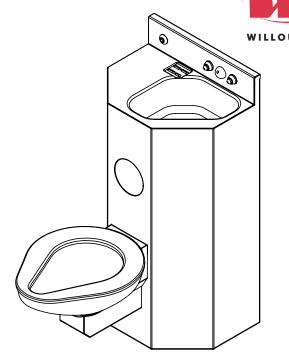
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1847 Series 18" Wide Combination Lavatory/Toilet Units with Angled Lavatory Bowl





ANGLED RIGHT LAV. UNIT SHOWN (Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet 18" wide combination unit with angled right lav. bowl, centered toilet, on floor, standard ligature-resistant filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, lav. elbow waste, lav fast drain, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, center recessed tissue holder, and wall sleeve

Use the following Willoughby Model Number: ECW-1847-R-C-ON-BPH-1.6-PML2-PBH-EB-TWE-TWC3P-FV-FVT-RTHC-WS

Recommended Specifications

18" Wide Combination Lavatory/Toilet Units with Angled Lavatory Bowl shall be: Willoughby Model No. **EC__-1847** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:

- Multi-sided bowl, 12-3/4" x 8-1/4" x 5" deep
- Stainless steel ligature-resistant bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



WARNING: Cancer and Reproductive Harm

- www.P65Warnings.ca.gov

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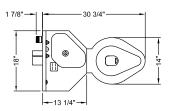
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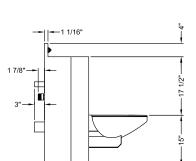
1.) Toilet Waste Location:	10.) Lavato	ry Waste:	14.) Other	Options:
□ ECW Wall Outlet	□ EB	Elbow Waste (1-1/2" Plain End)	□ T4	Manual Reset Toilet Overflow Preventer, Req. (FV)
□ ECF Floor Outlet		(Standard)	□ T4A	Auto Reset Toilet Overflow Preventer, Req. (FV)
	□ PT	Integral 'P'-Trap (1-1/2" Plain End)	☐ ET4	Electronic Toilet Overflow Preventer,
2.) Base Model Number:	□ LWE	Lavatory Waste Extension		Requires (EFVP) & (WUCC-3010) or (WMSII)
■ 1847 18" Wide Angled Lav-toilet Combination		(Specify if more than 3")	☐ TFE	Toilet Flush Extension (Specify if more than 1-7/8")
	OV	Lavatory Overflow	□ FVT	Flush Valve Connection
3.) Lav. Bowl Orientation:	CW1	Combined Waste w/o Clean-out	□ HS	Hinged White Plastic Seat (Not recommended for
□ L -Angled Left	☐ CW2	Combined Waste w/ Clean-out		Max. Security/Ligature-resistant use; No Cover)
R -Angled Right	☐ LW1	Thru-Wall Extension, 'P'-Trap	□ RTH_	Recessed Tissue Holder
4.) Toilet Orientation:	☐ LW2	Thru-Wall Extension & Clean-out		□ L □ LF □ C □ RF □ R
□ L-Angled Left	□ SLOW	Slow Drain	□ ISH	Integral Shelf
R -Angled Right	■ LWC1	Coupling, 1-1/2" Tube to 1-1/2" Tube	□ TB1	Single Toothbrush Holder
☐ C -Centered	■ LWC2	Coupling, 1-1/2" Tube to 1-1/2" PVC		uL u R
		/Cast Iron	☐ TB2	Dual Toothbrush Holder
5.) Fixture Mounting:	□ RPT	Removable 'P'-Trap (1-1/2" N.P.T.)	□ TH1	Single Towel Hook
☐ OF Off-Floor (ECW Only)		(For FA option only)		O L O LF O RF O R
□ ON On-Floor		, , , , , , , , , , , , , , , , , , , ,	☐ TH2_	Dual Towel Hook
	11.) Toilet V	/aste:		
6.) Bubbler Selection:	□ GWC	Gasketed Waste Connection	□ DC	Decorator Color (Fixture exterior only - White)
□ BPH Ligature-resistant Bubbler/Filler		(Standard on ECF)	☐ TF24H	,
(Standard)**	□ TWE	Toilet Waste Extension	☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*
□ BC Code Bubbler/Filler (w/ Non Ligature-		(Standard on ECW)	☐ HPS	High Polish Seat
Resistant Mouth Guard)	□ TW3	3" Clean-out for (TWE)	□ VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area)
□ FLH Ligature-resistant Lav. Filler**	☐ TW4	4" Cast Iron Closet Flange		□ L □ LF □ RF □ R
3	☐ TW5	4" Clean-out for (TWE)	□ MT	Wall Template
7.) Lavatory Valve Selection:	□ PC3	Pinned Clean-out Plug PVC-3"	□ WS	Wall Sleeve (Requires Accessible Chase)
□ NV No Valve	□ PCB3	Pinned Clean-out Plug Brass-3"	□ SK	Ligature-resistant Toilet Skirt, (ON) On-Floor Only**
□ PSL1 Single Temp. Pneumatic Non-metering	□ PC4	Pinned Clean-out Plug PVC-4"	□ TG	12 Gauge Cabinet
☐ PSL2 Dual Temp. Pneumatic Non-metering	□ PCB4	Pinned Clean-out Plug Brass-4"	□ TSC	Toilet Shipping Cover
□ PML1 Single Temp. Pneumatic Metering	□ COH4	4" Clean-out Hook, 4" PVC Plug	□ FA	Front Access (For use when no chase exists)
□ PML2 Dual Temp. Pneumatic Metering	□ COHB4	4" Clean-out Hook, 4" Brass Plug	☐ Other	· · · · · · · · · · · · · · · · · · ·
□ E1L1 Single Temp. Electronic (Pick Control)	_ 005.	. Oldan darriddin, i Braddinag	_ 0o.	
□ E1L2 Dual Temp. Electronic (Pick Control)	12.) Waste	Coupling for (TWE) Toilet Waste Extension:	*(Reg. 110	V power through ground fault interrupter (GFCI) receptacle /
Valve Manifold Options:	☐ TWC3P		breaker)	v power amough ground taak menupter (Or Or) receptable ;
Pneumatic or Electronic Only:	□ TWC3C	3	Di Galloi)	
□ MA2 □ MA3 □ MA4	□ TWC4P	9	**LIGATU	RE-RESISTANT DISCLAIMER
	☐ TWC4C	3		uct is designed to minimize ligature points. While every
8.) Lavatory Push Button Selection:		Commonly to 1 Guet non		been made to reduce the possibility of ligature points, this
□ PBH Ligature-resistant Pneumatic Push Buttons**	13.) Flush \	alve:		oes not eliminate all risks. Ligature-Resistant products by
□ PZPB Ligature-resistant Piezo Electronic	□ FV	Hydraulic Flush Valve (Includes Actuator)		by Industries are to be used in conjunction with, not as a
Push Buttons**		□ 1.28 GPF HET (4.8 Lpf)		ent for, trained professionals.
T don Battonio		□ 1.6 GPF ULF (6.0 Lpf)	торіассті	one for, trained professionals.
9.) Electronic Controls*		□ 3.5 GPF (13.2 Lpf)***	***For renl	acement fixtures only
(Must Use Electronic Lavatory & Flush Valves):	☐ EFVP	Electronic Flush Valve w/ (PZPB)	Гоггорі	accinent lixtures only
WUCC-3010 □Pneutronic □WMSII	- L. V.	Ligature-resistant Piezo Push Button		
a wood-solo al heationic awillon		(Pick Control)*/**		
		☐ 1.28 GPF HET (4.8 Lpf)		
		1.26 GPF HET (4.6 Lpf)		
		□ 3.5 GPF (13.2 Lpf)***		
	□ NFV	No Flush Valve (Provided by Others)		
	⊒ 141 V	110 Fideli Valve (Florided by Others)		

Approved For Manufacturing By:______ Date:_____ Company:_____
Wall Thickness:_____ Wall Type:_____

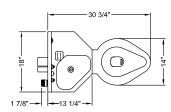
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RIGHT HAND LAV BOWL PLAN VIEW



SIDE VIEW



LEFT HAND LAV BOWL PLAN VIEW

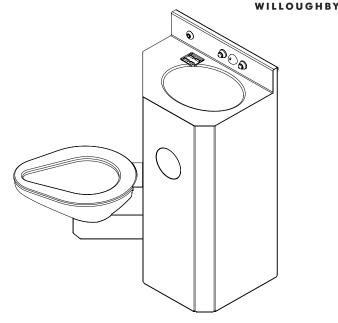


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2046 Series 20" Wide Combination Lavatory/Toilet Units with Angled Toilet Bowl





ANGLED LEFT TOILET UNIT SHOWN (Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet 20" wide combination unit with angled left toilet, on floor, standard ligatureresistant filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, lav. elbow waste, lav. fast drain, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, center recessed tissue holder, and wall sleeve

Use the following Willoughby Model Number: ECW-2046-L-ON-BPH-1.6-PML2-PBH-EB-TWE-TWC3P-FV-FVT-RTHC-WS

Recommended Specifications

20" Wide Combination Lavatory/Toilet Units with Angled Toilet Bowl shall be: Willoughby Model No. **EC__-2046** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:

- Oval-shaped bowl, 13" x 9-1/2" x 6" deep
- Stainless steel ligature-resistant bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



WARNING: Cancer and Reproductive Harm

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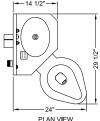
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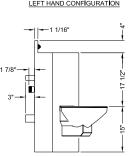
	WODL	E NOMBER AND O	i iiono.				
1.) Toilet Waste Location:	9.) Lavatory W	Vaste:	13.) Other Options:				
□ ECW Wall Outlet	□ EB	Elbow Waste (1-1/2" Plain End)	☐ T4 Manual Reset Toilet Overflow Preventer, Req. (FV)				
□ ECF Floor Outlet		(Standard)	☐ T4A Auto Reset Toilet Overflow Preventer, Reg. (FV)				
	□ PT	Integral 'P'-Trap (1-1/2" Plain End)	□ ET4 Electronic Toilet Overflow Preventer,				
2.) Base Model Number:		Lavatory Waste Extension	Requires (EFVP) & (WUCC-3010) or (WMSII)				
□ 2046 20" Wide Angled Lav-toilet Combination		(Specify if more than 3")	☐ TFE Toilet Flush Extension (Specify if more than 1-7/8")				
3	OV	Lavatory Overflow	☐ FVT Flush Valve Connection				
3.) Toilet Orientation:		Combined Waste w/o Clean-out					
☐ L Angled Left		Combined Waste w/ Clean-out	☐ HS Hinged White Plastic Seat (Not recommended for				
R Angled Right		Thru-Wall Extension, 'P'-Trap	Max. Security/Ligature-resistant use; No Cover)				
a R Angled Right		Thru-Wall Extension & Clean-out	□ RTHRecessed Tissue Holder				
4) Eivture Mountings		Slow Drain	Angled Left Toilet Orientation: □ L □ LF □ C □ R				
4.) Fixture Mounting:			Angled Right Toilet Orientation: □ L □ C □ RF □ R				
☐ OF Off-Floor (ECW Only)		Coupling, 1-1/2" Tube to 1-1/2" Tube	☐ ISH Integral Shelf				
□ ON On-Floor		Coupling, 1-1/2" Tube to 1-1/2" PVC	☐ TB1 Single Toothbrush Holder				
		/Cast Iron					
5.) Bubbler Selection:		Removable 'P'-Trap (1-1/2" N.P.T.)	☐ TB2 Dual Toothbrush Holder				
■ BPH Ligature-resistant Bubbler/Filler		(For FA option only)	☐ TH1 Single Towel Hook				
(Standard)**							
□ BC Code Bubbler/Filler (w/ Non Ligature-	10.) Toilet Was	ste:					
Resistant Mouth Guard)	□ GWC	Gasketed Waste Connection	☐ TH2Dual Towel Hook				
□ FLH Ligature-resistant Lav. Filler**		(Standard on ECF)					
	□ TWE	Toilet Waste Extension	 DC Decorator Color (Fixture exterior only - White) 				
6.) Lavatory Valve Selection:		(Standard on ECW)	□ TF24H Hard-wired Transformer, 110VAC to 24VAC*				
□ NV No Valve	□ TW3	3" Clean-out for (TWE)	□ TF24P Plug-in Transformer, 110VAC to 24VAC*				
☐ PSL1 Single Temp. Pneumatic Non-metering	□ TW4	4" Cast Iron Closet Flange	☐ HPS High Polish Seat				
□ PSL2 Dual Temp. Pneumatic Non-metering	□ TW5	4" Clean-out for (TWE)	☐ VG Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area)				
□ PML1 Single Temp. Pneumatic Metering	□ PC3	Pinned Clean-out Plug PVC-3"	□ L □ C □ R				
□ PML2 Dual Temp. Pneumatic Metering	□ PCB3	Pinned Clean-out Plug Brass-3"	☐ MT Wall Template				
□ E1L1 Single Temp. Electronic (Pick Control)	□ PC4	Pinned Clean-out Plug PVC-4"					
	□ PCB4	•	()				
. ,		Pinned Clean-out Plug Brass-4"	☐ SK Ligature-resistant Toilet Skirt, (ON) On-Floor Only**				
Valve Manifold Options:	COH4	4" Clean-out Hook, 4" PVC Plug	☐ TG 12 Gauge Cabinet				
Pneumatic or Electronic Only:	☐ COHB4	4" Clean-out Hook, 4" Brass Plug	☐ TSC Toilet Shipping Cover				
□ MA2 □ MA3 □ MA4			□ FA Front Access (For use when no chase exists)				
	,	upling for (TWE) Toilet Waste Extension:	□ Other				
7.) Lavatory Push Button Selection:	□ TWC3P	Connecting to 3" PVC					
□ PBH Ligature-resistant Pneumatic	□ TWC3C	Connecting to 3" Cast Iron	*(Reg. 110V power through ground fault interrupter (GFCI) receptacle				
Push Buttons**	□ TWC4P	Connecting to 4" PVC	breaker)				
□ PZPB Ligature-resistant Piezo Electronic Push Buttons**	☐ TWC4C	Connecting to 4" Cast Iron	,				
	12.) Flush Val	ve:	**LIGATURE-RESISTANT DISCLAIMER				
8.) Electronic Controls*	,	Hydraulic Flush Valve (Includes Actuator)	This product is designed to minimize ligature points. While ever				
(Must Use Electronic Lavatory & Flush Valves):		□ 1.28 GPF HET (4.8 Lpf)	effort has been made to reduce the possibility of ligature points				
□ WUCC-3010 □Pneutronic □WMSII		□ 1.6 GPF ULF (6.0 Lpf)	this product does not eliminate all risks. Ligature-Resistant				
a Wood-3010 artieutionic awwisii		□ 3.5 GPF (13.2 Lpf)***	products by Willoughby Industries are to be used in conjunction				
		lectronic Flush Valve w/ (PZPB)	with, not as a replacement for, trained professionals.				
		, ,	, , , ,				
		Ligature-resistant Piezo Push Button	***For replacement fixtures only				
		(Pick Control)*/**	. S. Ispassificia interior only				
		□ 1.28 GPF HET (4.8 Lpf)					
		☐ 1.6 GPF ULF (6.0 Lpf)					
		□ 3.5 GPF (13.2 Lpf)***					
	□ NFV	No Flush Valve (Provided by Others)					

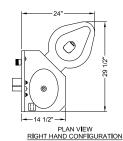
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Wall Thickness:_____ Wall Type:_____

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PLAN VIEW LEFT HAND CONFIGURATION





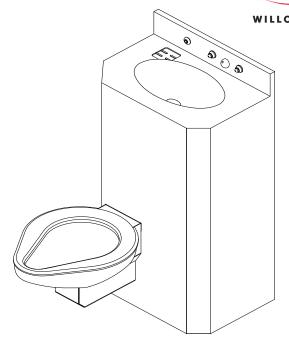




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2096 Series 20" Wide Combination Lavatory/Toilet Units with Offset Toilet Bowl





OFFSET LEFT TOILET UNIT SHOWN (Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet 20" wide combination unit with offset left toilet, on floor, standard ligature-resistant filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, lav. elbow waste, lav. fast drain, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, and wall sleeve

Use the following Willoughby Model Number: ECW-2096-L-ON-BPH-1.6-PML2-PBH-EB-TWE-TWC3P-FV-FVT-WS

Recommended Specifications

20" Wide Combination Lavatory/Toilet Units with Offset Toilet Bowl shall be: Willoughby Model No. **EC__-2096** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:

- Oval-shaped bowl, 13" x 9-1/2" x 6" deep
- Stainless steel ligature-resistant bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



WARNING: Cancer and Reproductive Harm

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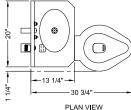
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1.) Toilet Waste Location: 9.) Lavatory Waste: 13.) Other Options: Wall Outlet □ EB Elbow Waste (1-1/2" Plain End) Manual Reset Toilet Overflow Preventer, Reg. (FV) □ ECW □ T4 □ ECF T4A Auto Reset Toilet Overflow Preventer, Req. (FV) Floor Outlet (Standard) РТ Integral 'P'-Trap (1-1/2" Plain End) Electronic Toilet Overflow Preventer, ET4 LWE Lavatory Waste Extension Requires (EFVP) & (WUCC-3010) or (WMSII) 2.) Base Model Number: 20" Wide Offset Lav-toilet Combination (Specify if more than 3") □ TFE Toilet Flush Extension (Specify if more than 1-7/8") **2096** OV Lavatory Overflow FVT Flush Valve Connection CW1 Combined Waste w/o Clean-out HS Hinged White Plastic Seat (Not recommended for 3.) Toilet Orientation: Offset Left CW2 Combined Waste w/ Clean-out Max. Security/Ligature-resistant use; No Cover) □ RTH □ R Offset Right LW1 Thru-Wall Extension, 'P'-Trap Recessed Tissue Holder LW2 Thru-Wall Extension & Clean-out O L OLF ☐ RF SLOW Slow Drain □ ISH Integral Shelf 4.) Fixture Mounting: Off-Floor (ECW Only) LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube Single Toothbrush Holder TB1 Coupling, 1-1/2" Tube to 1-1/2" PVC ON On-Floor LWC2 □L □ R /Cast Iron ☐ TB2 Dual Toothbrush Holder 5.) Bubbler Selection: □ RPT Removable 'P'-Trap (1-1/2" N.P.T.) TH1__ Single Towel Hook BPH Ligature-resistant Bubbler/Filler (For FA option only) O L O LF □ RF □ R (Standard)** ☐ TH2 **Dual Towel Hook** ☐ BC Code Bubbler/Filler (w/ Non Ligature-10.) Toilet Waste O L O LF □ RF □ R Gasketed Waste Connection DC Decorator Color (Fixture exterior only - White) Resistant Mouth Guard) □ GWC □ FLH Ligature-resistant Lav. Filler* (Standard on ECF) TF24H Hard-wired Transformer, 110VAC to 24VAC □ TWF Toilet Waste Extension TF24P Plug-in Transformer, 110VAC to 24VAC* 6.) Lavatory Valve Selection: (Standard on ECW) High Polish Seat □ HPS Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in2 free area) NV No Valve TW3 3" Clean-out for (TWE) □ VG PSL1 Single Temp. Pneumatic Non-metering TW4 4" Cast Iron Closet Flange O L O LF □ RF □ R Dual Temp. Pneumatic Non-metering PSL2 TW5 4" Clean-out for (TWE) MT Wall Template PML1 Single Temp. Pneumatic Metering PC3 Pinned Clean-out Plug PVC-3" WS Wall Sleeve (Requires Accessible Chase) PML2 Dual Temp. Pneumatic Metering PCB3 Pinned Clean-out Plug Brass-3' SK Ligature-resistant Toilet Skirt, (ON) On-Floor Only** □ E1L1 Single Temp. Electronic (Pick Control) Pinned Clean-out Plug PVC-4" TG 12 Gauge Cabinet PC4 Dual Temp. Electronic (Pick Control) PCB4 Pinned Clean-out Plug Brass-4" Toilet Shipping Cover Valve Manifold Options: COH4 4" Clean-out Hook, 4" PVC Plug Front Access (For use when no chase exists) 4" Clean-out Hook, 4" Brass Plug Pneumatic or Electronic Only: СОНВ4 Other ■ MA3 ☐ MA4 11.) Waste Coupling for (TWE) Toilet Waste Extension: *(Req. 110V power through ground fault interrupter (GFCI) receptacle / 7.) Lavatory Push Button Selection: TWC3P Connecting to 3" PVC Ligature-resistant Pneumatic TWC3C Connecting to 3" Cast Iron Push Buttons** TWC4P Connecting to 4" PVC **LIGATURE-RESISTANT DISCLAIMER □ PZPB Ligature-resistant Piezo Electronic TWC4C Connecting to 4" Cast Iron This product is designed to minimize ligature points. While every Push Buttons** effort has been made to reduce the possibility of ligature points, this 12.) Flush Valve: product does not eliminate all risks. Ligature-Resistant products by 8.) Electronic Controls' Hydraulic Flush Valve (Includes Actuator) Willoughby Industries are to be used in conjunction with, not as a 1.28 GPF HET (4.8 Lpf) (Must Use Electronic Lavatory & Flush Valves): replacement for, trained professionals. ☐ 1.6 GPF ULF (6.0 Lpf) ■ WUCC-3010 □Pneutronic □WMSII □ 3.5 GPF (13.2 Lpf)** ***For replacement fixtures only □ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button

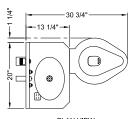
Approved For Manufacturing By:_ Date: Company:_ Wall Thickness: Wall Type:

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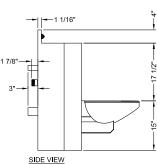


(Pick Control)*/* ☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf) □ 3.5 GPF (13.2 Lpf)** No Flush Valve (Provided by Others)

PLAN VIEW LEFT HAND CONFIGURATION -1 1/16"



PLAN VIEW RIGHT HAND CONFIGURATION



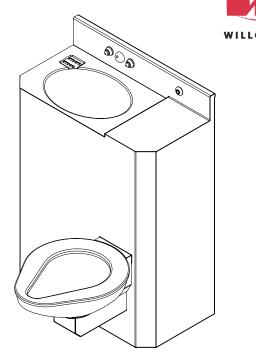
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2696 Series 26" Wide Combination Lavatory/Toilet Units with Offset Toilet Bowl





OFFSET RIGHT TOILET UNIT SHOWN (Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet 26" wide combination unit with offset right toilet, on floor, standard ligatureresistant filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, lav. elbow waste, lav. fast drain, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, and wall sleeve

Use the following Willoughby Model Number: ECW-2696-R-ON-BPH-1.6-PML2-PBH-EB-TWE-TWC3P-FV-FVT-WS

Recommended Specifications

26" Wide Combination Lavatory/Toilet Units with Offset Toilet Bowl shall be: Willoughby Model No. **EC__-2696** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:

- Oval-shaped bowl, 13" x 9-1/2" x 6" deep
- Stainless steel ligature-resistant bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



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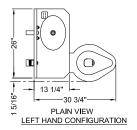
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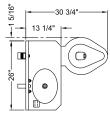
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1.) Toilet W	aste Location:	9.) Lavatory	Waste:	13.) Oth	er Options:
□ ECW	Wall Outlet	□ EB	Elbow Waste (1-1/2" Plain End)	□ T4	Manual Reset Toilet Overflow Preventer, Req. (FV)
□ ECF	Floor Outlet		(Standard)	☐ T4A	Auto Reset Toilet Overflow Preventer, Req. (FV)
		□ PT	Integral 'P'-Trap (1-1/2" Plain End)	☐ ET4	Electronic Toilet Overflow Preventer,
2.) Base Mo	odel Number:	□ LWE	Lavatory Waste Extension		Requires (EFVP) & (WUCC-3010) or (WMSII)
□ 2696	26" Wide Offset Lav-toilet Combination		(Specify if more than 3")	☐ TFE	Toilet Flush Extension (Specify if more than 1-7/8")
		OV	Lavatory Overflow	☐ FVT	
3.) Toilet Or	rientation:	□ CW1	Combined Waste w/o Clean-out	☐ HS	Hinged White Plastic Seat (Not recommended for
□ L	Offset Left	CW2	Combined Waste w/ Clean-out		Max. Security/Ligature-resistant use; No Cover)
□ R	Offset Right	□ LW1	Thru-Wall Extension, 'P'-Trap	□ RTH	Recessed Tissue Holder
	· ·	☐ LW2	Thru-Wall Extension & Clean-out		R R
4.) Fixture I	Mounting:	□ SLOW	Slow Drain	☐ ISH	Integral Shelf
□ OF	Off-Floor (ECW Only)	□ LWC1	Coupling, 1-1/2" Tube to 1-1/2" Tube	☐ TB1	ů .
□ ON	On-Floor	☐ LWC2	Coupling, 1-1/2" Tube to 1-1/2" PVC	-	
			/Cast Iron	☐ TB2	
5.) Bubbler	Selection:	□ RPT	Removable 'P'-Trap (1-1/2" N.P.T.)	-	
□ BPH	Ligature-resistant Bubbler/Filler		(For FA option only)	☐ TH1	Single Towel Hook
	(Standard)**		` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		OLOLFORFOR
□ BC	Code Bubbler/Filler (w/ Non Ligature-	10.) Toilet W	Vaste:	☐ TH2	Dual Towel Hook
	Resistant Mouth Guard)	□ GWC	Gasketed Waste Connection	•	
☐ FLH	Ligature-resistant Lav. Filler**		(Standard on ECF)	□ DC	Decorator Color (Fixture exterior only - White)
	3	□ TWE	Toilet Waste Extension	□ TF24	,
6.) Lavator	y Valve Selection:		(Standard on ECW)	□ TF24	
□ NV	No Valve	□ TW3	3" Clean-out for (TWE)	☐ HPS	3
□ PSL1	Single Temp. Pneumatic Non-metering	□ TW4	4" Cast Iron Closet Flange	□ VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area)
☐ PSL2	Dual Temp. Pneumatic Non-metering	□ TW5	4" Clean-out for (TWE)		□ L □LF □ RF □ R
□ PML1	Single Temp. Pneumatic Metering	□ PC3	Pinned Clean-out Plug PVC-3"	□ MT	Wall Template
□ PML2	Dual Temp. Pneumatic Metering	□ PCB3	Pinned Clean-out Plug Brass-3"	□ WS	Wall Sleeve (Requires Accessible Chase)
□ E1L1	Single Temp. Electronic (Pick Control)	□ PC4	Pinned Clean-out Plug PVC-4"	□ SK	Ligature-resistant Toilet Skirt, (ON) On-Floor Only**
□ E1L2	Dual Temp. Electronic (Pick Control)	□ PCB4	Pinned Clean-out Plug Brass-4"	□ TG	12 Gauge Cabinet
	fold Options:	□ COH4	4" Clean-out Hook, 4" PVC Plug	☐ TSC	
	c or Electronic Only:	□ COHB4	4" Clean-out Hook, 4" Brass Plug	□ FA	Front Access (For use when no chase exists)
			, ,	☐ Othe	
		11.) Waste 0	Coupling for (TWE) Toilet Waste Extension:		·
7.) Lavator	Push Button Selection:	☐ TWC3P	Connecting to 3" PVC	*(Rea. 1	10V power through ground fault interrupter (GFCI) receptacle /
□ PBH	Ligature-resistant Pneumatic	□ TWC3C	ů .	breaker)	
	Push Buttons**	☐ TWC4P	Connecting to 4" PVC	,	
□ PZPB	Ligature-resistant Piezo Electronic	□ TWC4C		**LIGAT	URE-RESISTANT DISCLAIMER
	Push Buttons**				oduct is designed to minimize ligature points. While every
		12.) Flush V	alve:		as been made to reduce the possibility of ligature points, th
8.) Electron	nic Controls*	□ FV	Hydraulic Flush Valve (Includes Actuator)		does not eliminate all risks. Ligature-Resistant products by
	e Electronic Lavatory & Flush Valves):		□ 1.28 GPF HET (4.8 Lpf)		hby Industries are to be used in conjunction with, not as a
□ WUCC-			☐ 1.6 GPF ULF (6.0 Lpf)		ment for, trained professionals.
			□ 3.5 GPF (13.2 Lpf)***		···-··································
		□ EFVP	Electronic Flush Valve w/ (PZPB)	***For re	placement fixtures only
			Ligature-resistant Piezo Push Button		,
			(Pick Control)*/**		
			☐ 1.28 GPF HET (4.8 Lpf)		
			☐ 1.6 GPF ULF (6.0 Lpf)		
			□ 3.5 GPF (13.2 Lpf)***		
		□ NFV	No Flush Valve (Provided by Others)		

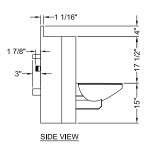
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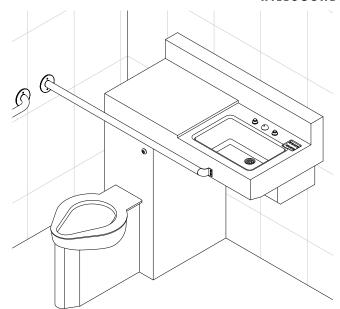




3696 Series 37" Wide Handicap-ADA Combination Lavatory/ Toilet Unit for use on 90 degree chase wall







OFFSET LEFT UNIT SHOWN
(Unit shown with optional features; (GB4296) ADA grab is not included standard*)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet 37" wide handicap combination unit with offset left toilet, on floor, standard ligature-resistant deck mounted bubbler, 1.6 GPF, dual temp, pneumatic metering valve, standard ligature-resistant pneumatic push buttons, lav. elbow waste, lav. fast drain, toilet waste extension, 3" PVC waste coupling, 42" ADA grab bar, hydraulic flush valve, flush valve connection, and wall sleeve

Use the following Willoughby Model Number: ECW-3696-L-ON-DMBH-1.6-PML2-PBH-EB-TWE-TWC3P-GB4296-FV-FVT-WS

Recommended Specifications

37" Wide Handicap-ADA Combination Lavatory/Toilet Unit for use on 90 degree chase wall shall be: Willoughby Model No. **EC__-3696** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:

- Rectangular-shaped bowl, 14" x 9-1/2" x 4-3/8" deep
- Stainless steel ligature-resistant bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish
- Ligature-resistant toilet skirt

Fixture shall withstand loadings of 5,000 lbs. without permanent damage. Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 6-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

- *1.) ADA Compliance requires the addition of Grab Bar #(GB4296); see Section S11-SUPPLEMENTAL INFORMATION for 3696 Series ADA Diagram.
 - (RTH)- Recessed Tissue Holder option is not ADA Compliant.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



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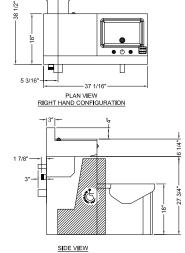
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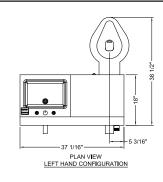
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1 \ Toilot \	lacto Location:	0) I avatom	Wasto	13 \	Grah F	Par Ontion:		
1.) Toilet Waste Location: □ ECW Wall Outlet		9.) Lavatory Waste: ☐ EB Elbow Waste (1-1/2" Plain End)			13.) Grab Bar Option: ☐ GB4296 42" ADA Grab Bar (Req. for ADA Compliance)			
□ ECF Floor Outlet		(Standard)			GD4230 42 ADA GIAD DAI (Req. 101 ADA COMPHANCE)			
	1 loor outlot	□ PT	Integral 'P'-Trap (1-1/2" Plain End)	14.)	Other	Options:		
2.) Base M	odel Number:	□ LWE	Lavatory Waste Extension		T4	Manual Reset Toilet Overflow Preventer, Req. (FV)		
3696	37" Wide Handicap* Lav-toilet		(Specify if more than 3")	_	T4A	Auto Reset Toilet Overflow Preventer, Req. (FV)		
	Combination	■ OV	Lavatory Overflow		ET4	Electronic Toilet Overflow Preventer,		
		CW1	Combined Waste w/o Clean-out			Requires (EFVP) & (WUCC-3010) or (WMSII)		
3.) Toilet O	rientation:	CW2	Combined Waste w/ Clean-out	_ ·	TFE	Toilet Flush Extension (Specify if more than 1-7/8")		
u L	Offset Left	□ LW1	Thru-Wall Extension, 'P'-Trap		FVT	Flush Valve Connection		
□ R	Offset Right	☐ LW2	Thru-Wall Extension & Clean-out		HS	Hinged White Plastic Seat (Not recommended for		
	· ·	□ SLOW	Slow Drain			Max. Security/Ligature-resistant use; No Cover)		
4.) Fixture	Mounting:	■ LWC1	Coupling, 1-1/2" Tube to 1-1/2" Tube		RTH	Recessed Tissue Holder (Not ADA Compliant)		
□ OF	Off-Floor (ECW Only, no ligature-	■ LWC2	Coupling, 1-1/2" Tube to 1-1/2" PVC			(Underneath Lav. Bowl)		
	resistant toilet skirt)		/Cast Iron		TB1	Single Toothbrush Holder (Opposite Toilet)		
□ ON	On-Floor			<u> </u>	TB2	Dual Toothbrush Holder (Opposite Toilet)		
		10.) Toilet W	/aste:	<u> </u>	TH1	Single Towel Hook (Opposite Toilet)		
5.) Bubble	Selection:	□ GWC	Gasketed Waste Connection	<u> </u>	TH2	Dual Towel Hook (Opposite Toilet)		
□ DMBH	Ligature-resistant Deck Mounted		(Standard on ECF)		DC	Decorator Color (Fixture exterior only - White)		
	Bubbler (Standard)***	□ TWE	Toilet Waste Extension	□ 1	ΓF24H	Hard-wired Transformer, 110VAC to 24VAC*		
	(Not for ADA compliant drinking)		(Standard on ECW)	□ 1	ΓF24P	Plug-in Transformer, 110VAC to 24VAC*		
		□ TW3	3" Clean-out for (TWE)		HPS	High Polish Seat		
6.) Lavator	y Valve Selection:	□ TW4	4" Cast Iron Closet Flange	□ '	VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in ² free area)		
■ NV	No Valve	☐ TW5	4" Clean-out for (TWE)			□ L □ R		
☐ PSL1	Single Temp. Pneumatic Non-metering	□ PC3	Pinned Clean-out Plug PVC-3"		MT	Wall Template		
☐ PSL2	Dual Temp. Pneumatic Non-metering	□ PCB3	Pinned Clean-out Plug Brass-3"		WS	Wall Sleeve (Requires Accessible Chase)		
□ PML1	Single Temp. Pneumatic Metering	□ PC4	Pinned Clean-out Plug PVC-4"		LSK	Less Ligature-resistant Toilet Skirt		
☐ PML2	Dual Temp. Pneumatic Metering	□ PCB4	Pinned Clean-out Plug Brass-4"		TG	12 Gauge Cabinet		
☐ E1L1	Single Temp. Electronic (Pick Control)	□ COH4	4" Clean-out Hook, 4" PVC Plug	□ .	TSC	Toilet Shipping Cover		
□ E1L2	Dual Temp. Electronic (Pick Control)	□ COHB4	4" Clean-out Hook, 4" Brass Plug		DFBH	Ligature-resistant Deck Mounted ADA Compliant Drinking		
	ifold Options:					Fountain Bubbler**/ ***		
	ic or Electronic Only:		Coupling for (TWE) Toilet Waste Extension:			**(Panel Mounted Push Button)		
	MA2 MA3 MA4	■ TWC3P	Connecting to 3" PVC		Other			
		□ TWC3C	Connecting to 3" Cast Iron					
,	y Push Button Selection:	■ TWC4P	Connecting to 4" PVC	,	•	/ power through ground fault interrupter (GFCI) receptacle		
□ PBH	Ligature-resistant Pneumatic Push Buttons***	□ TWC4C	Connecting to 4" Cast Iron	brea	,			
□ PZPB	Ligature-resistant Piezo Electronic	12.) Flush V	alve:			RE-RESISTANT DISCLAIMER		
	Push Buttons***	□ FV	Hydraulic Flush Valve (Includes Actuator) ☐ 1.28 GPF HET (4.8 Lpf)	effor	rt has l	ct is designed to minimize ligature points. While ever been made to reduce the possibility of ligature points,		
8.) Electro	nic Controls*		■ 1.6 GPF ULF (6.0 Lpf)			ct does not eliminate all risks. Ligature-Resistant		
(Must Use Electronic Lavatory & Flush Valves): □ WUCC-3010 □Pneutronic □WMSII			☐ 3.5 GPF (13.2 Lpf)****			y Willoughby Industries are to be used in conjunction		
		□ EFVP	Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button	with, not		s a replacement for, trained professionals.		
			(Pick Control)*/*** ☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf	***F	or repl	acement fixtures only		
			□ 3.5 GPF (13.2 Lpf)****					
		□ NFV	No Flush Valve (Provided by Others)					

Approved For Manufacturing By:______ Date:_____ Company:_____
Wall Thickness:_____ Wall Type:_____

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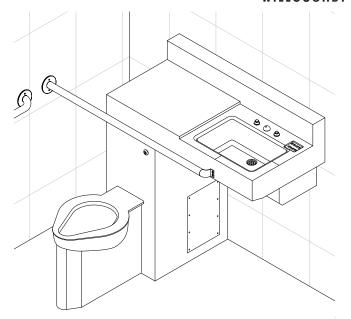




3696-FA Series 37" Wide Handicap-ADA Front Access Combination Lavatory/Toilet Unit for use on 90 degree wall







OFFSET LEFT UNIT SHOWN
(Unit shown with optional features; (GB4296) ADA grab is not included standard*)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet front access 37" wide handicap combination unit with offset left toilet, standard ligature-resistant deck mounted bubbler, 1.6 GPF, dual temp, pneumatic metering valve, standard ligature-resistant pneumatic push buttons, removable lav. 'p' trap, lav. fast drain, standard gasketed waste connection, 42" ADA grab bar, hydraulic flush valve, and wall template

Use the following Willoughby Model Number: ECW-3696-FA-L-ON-DMBH-1.6-PML2-PBH-RPT-GWC-GB4296-FV-MT

Recommended Specifications

37" Wide Handicap-ADA Front Access Combination Lavatory/Toilet Unit for use on 90 degree wall shall be: Willoughby Model No. **EC__-3696-FA** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish. Removable access panels, attached w/ security screws shall provide access to fixture interior.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:

- Rectangular-shaped bowl, 14" x 9-1/2" x 4-3/8" deep
- Stainless steel ligature-resistant bubbler/filler
- Fast drain with air vent
- Removable slip-joint brass union 'P' trap (1-1/2" N.P.T.)
- Self-draining soap dish
- Ligature-resistant toilet skirt

Fixture shall withstand loadings of 5,000 lbs. without permanent damage. Cabinet interior shall be sound deadened with fire-resistant material. Optionally selected lavatory valve and flush valve shall be factory installed inside fixture cabinet.

Anchoring shall be from the front, anchoring holes provided. Anchoring hardware provided by others. Standard unit requires no chase area for installation and maintenance, however certain non-standard options may require an accessible chase (see options list for details).

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

- *1.) ADA Compliance requires the addition of Grab Bar #(GB4296); see Section S11-SUPPLEMENTAL INFORMATION for 3696 Series ADA Diagram.
- 2.) (RTH)- Recessed Tissue Holder option is not ADA Compliant.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



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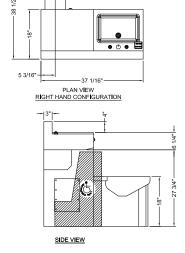
1.) Toilet Waste Location:		9) Lavatory Wa	9.) Lavatory Waste:			14.) Other Options:			
□ ECW		RPT	Removable 'P'-Trap (1-1/2" N.P.T.)		T4	Manual Reset Toilet Overflow Preventer, Reg. (FV)			
□ ECF	Floor Outlet	- 101	(Standard)			Auto Reset Toilet Overflow Preventer, Reg. (FV)			
	1 loor outlot	□ OV	Lavatory Overflow		ET4	Electronic Toilet Overflow Preventer,			
2) Base I	Model Number:	CW1	Combined Waste w/o Clean-out	_		Requires (EFVP) & (WUCC-3010) or (WMSII)			
□ 3696-		CW2	Combined Waste w/ Clean-out		HS	Hinged White Plastic Seat (Not recommended for			
	Lav-toilet Combination	□ SLOW	Slow Drain	_		Max. Security/Ligature-resistant use; No Cover)			
	Eav tollet combination	- 02011	Clow Bruin		RTH	Recessed Tissue Holder (Not ADA Compliant)			
3.) Toilet	Orientation:	10.) Toilet Wast	e:	_		(Underneath Lav. Bowl)			
□ L	Offset Left	□ GWC	Gasketed Waste Connection		TB1	Single Toothbrush Holder			
□ R	Offset Right		(Standard)	_		(Located beside Lav. Bowl, opposite Toilet)			
	g	□ TWE	Toilet Waste Extension		TB2	Dual Toothbrush Holder			
4.) Fixture	e Mounting:		(Requires Accessible Chase)	_		(Located beside Lav. Bowl, opposite Toilet)			
□ ON	On-Floor	□ TW4	4" Cast Iron Closet Flange		TH1	Single Towel Hook			
			3			(Located beside Lav. Bowl, opposite Toilet)			
5.) Bubble	er Selection:				TH2	Dual Towel Hook			
☐ DMBH			oling for (TWE) Toilet Waste			(Located beside Lav. Bowl, opposite Toilet)			
	Bubbler (Standard)***	Extension:	3 () ()		DC	Decorator Color (Fixture exterior only - White)			
	(Not for ADA compliant drinking)	■ TWC3P	Connecting to 3" PVC		TF24H	Hard-wired Transformer, 110VAC to 24VAC*			
		■ TWC3C	Connecting to 3" Cast Iron		TF24P	Plug-in Transformer, 110VAC to 24VAC*			
6.) Lavato	ory Valve Selection:	■ TWC4P	Connecting to 4" PVC		HPS	High Polish Seat			
u NV	No Valve	■ TWC4C	Connecting to 4" Cast Iron		VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area)			
□ PSL1	Single Temp. Pneumatic Non-metering		G						
☐ PSL2	Dual Temp. Pneumatic Non-metering				MT	Wall Template			
□ PML1	Single Temp. Pneumatic Metering	12.) Flush Valve	e:		WS	Wall Sleeve (Requires Accessible Chase)			
□ PML2	2 Dual Temp. Pneumatic Metering	□ FV Hy	draulic Flush Valve (Includes Actuator)		LSK	Less Ligature-resistant Toilet Skirt			
□ E1L1	Single Temp. Electronic (Pick Control)		1.28 GPF HET (4.8 Lpf)		TG	12 Gauge Cabinet			
□ E1L2	Dual Temp. Electronic (Pick Control)		1.6 GPF ULF (6.0 Lpf)		TSC	Toilet Shipping Cover			
			3.5 GPF (13.2 Lpf)****		DFBH	Ligature-resistant Deck Mounted ADA Compliant Drinking			
7.) Lavato	ory Push Button Selection:	☐ EFVP Ele	ctronic Flush Valve w/ (PZPB)			Fountain Bubbler**/ ***			
□ PBH	Ligature-resistant Pneumatic Push	Lig	ature-resistant Piezo Push Button			**(Panel Mounted Push Button)			
Buttons***	*	(Pi	ck Control)*/***		Other				
□ PZPB	Ligature-resistant Piezo Electronic		1.28 GPF HET (4.8 Lpf)		Other				
	Push Buttons***		1.6 GPF ULF (6.0 Lpf)						
			☐ 3.5 GPF (13.2 Lpf)****		*(Req. 110V power through ground fault interrupter (GFCI) recepta-				
8.) Electro	onic Controls*	■ NFV No	Flush Valve (Provided by Others)	/ b	reaker)				
(Must l	Jse Electronic Lavatory & Flush Valves):								
□ WUC	C-3010 □Pneutronic □WMSII	13.) Grab Bar O	ptions:			JRE-RESISTANT DISCLAIMER			
		☐ GB4296 42	" ADA Grab Bar			uct is designed to minimize ligature points. While ev			
		(R	eq. for ADA Compliance)	eff	ort has	been made to reduce the possibility of ligature poin			

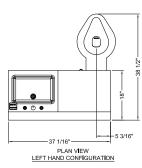
effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

****For replacement fixtures only

Approved For Manufacturing By:_		Date:	Company:	_
Wall Thickness:	Wall Type:			
Z z				

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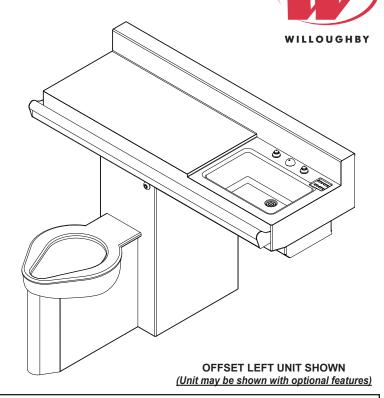
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4896 Series 49" Wide Handicap-ADA Combination Lavatory/ Toilet Unit for use on 90 degree chase wall







To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant Handicap-ADA Compliant 49" wide (90° Chase) Combination Lavatory/Toilet with wall outlet, offset left toilet, standard ligature-resistant deck mounted bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, lav. elbow waste, lav. slow drain, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, and wall sleeve

Use the following Willoughby Model Number: ECW-4896-L-ON-DMBH-1.6-PML2-PBH-EB-SLOW-TWE-TWC3P-FV-FVT-WS

Recommended Specifications

49" Wide Handicap-ADA Combination Lavatory/Toilet Unit for use on 90 degree chase wall shall be: Willoughby Model No. **EC__-4896** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Ligature resistant toilet skirt (extends to floor)
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:

- Rectangular-shaped bowl, 14" x 9-1/2" x 4-3/8" deep
- Stainless steel ligature-resistant bubbler/filler
- Slow drain with air vent
- Self-draining soap dish

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- Elbow waste (1-1/2" Plain End)

An integral behind-toilet grab bar with ligature-resistant closure plate is provided standard.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 6-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



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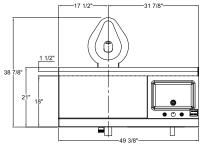
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S1-25

1.) Toilet Waste Location:	9.) Lavatory	Waste:	13.) Ot	her Options:
☐ ECW Wall Outlet	□ EB Î	Elbow Waste (1-1/2" Plain End)	□ T4	Manual Reset Toilet Overflow Preventer, Req. (FV)
□ ECF Floor Outlet		(Standard)	□ T4.	A Auto Reset Toilet Overflow Preventer, Req. (FV)
	□ PT	Integral 'P'-Trap (1-1/2" Plain End)	☐ ET	4 Electronic Toilet Overflow Preventer,
2.) Base Model Number:	□ LWE	Lavatory Waste Extension		Requires (EFVP) & (WUCC-3010) or (WMSII)
☐ 4896 49" Wide Handicap-ADA Combination		(Specify if more than 3")	☐ HS	
Lavatory/Toilet Unit for use on 90	□ OV	Lavatory Overflow		Max. Security/Ligature-resistant use; No Cover)
degree chase wall	□ CW1	Combined Waste w/o Clean-out	☐ TF	
ů	CW2	Combined Waste w/ Clean-out	☐ FV	` ' '
3.) Toilet Orientation:	□ LW1	Thru-Wall Extension, 'P'-Trap	☐ RT	H Recessed Tissue Holder (Not ADA Compliant)
☐ L Offset Left	☐ LW2	Thru-Wall Extension & Clean-out		(Underneath Lav. Bowl)
☐ R Offset Right	□ SLOW	Slow Drain (Standard)	□ ТВ	,
g	□ LWC1	Coupling, 1-1/2" Tube to 1-1/2" Tube		(Located beside Lav. Bowl, opposite Toilet)
4.) Fixture Mounting:	LWC2	Coupling, 1-1/2" Tube to 1-1/2" PVC	□ тв	
ON On-Floor		/Cast Iron	5	(Located beside Lav. Bowl, opposite Toilet)
2 0.1 0.1.100.		7 0 4 0 1 1 0 1 1	□ TH	,
5.) Bubbler Selection:	10.) Toilet W	laste:		(Located beside Lav. Bowl, opposite Toilet)
□ DMBH Ligature-resistant Deck Mounted	□ GWC	Gasketed Waste Connection	□ TH	
Bubbler (Standard)***	_ 00	(Standard on ECF)		(Located beside Lav. Bowl, opposite Toilet)
(Not for ADA compliant drinking)	□ TWE	Toilet Waste Extension	□ DC	
(Not for ADA Compliant difficility)		(Standard on ECW)	□ TF2	, ,
6.) Lavatory Valve Selection:	□ TW3	3" Clean-out for (TWE)	□ TF2	,
NV No Valve	☐ TW4	4" Cast Iron Closet Flange	□ HP	
☐ PSL1 Single Temp. Pneumatic Non-metering	☐ TW5	4" Clean-out for (TWE)	□ MT	9
□ PSL2 Dual Temp. Pneumatic Non-metering	□ PC3	Pinned Clean-out Plug PVC-3"	□ WS	•
□ PML1 Single Temp. Pneumatic Metering	□ PCB3	Pinned Clean-out Plug Brass-3"	□ TG	
□ PML2 Dual Temp. Pneumatic Metering	□ PC4	Pinned Clean-out Plug PVC-4"	☐ TS	3
☐ E1L1 Single Temp. Electronic (Pick Control)	□ PCB4	Pinned Clean-out Plug Brass-4"	☐ LS	11 3
9 1 (- ,	□ COH4	· ·	□ DF	3
☐ E1L2 Dual Temp. Electronic (Pick Control) Valve Manifold Options:	□ COH4	4" Clean-out Hook, 4" PVC Plug 4" Clean-out Hook, 4" Brass Plug	u Dr	BH Ligature-resistant Deck Mounted ADA Compliant Drinking Fountain Bubbler**/ ***
Pneumatic or Electronic Only:	U CORB4	4 Clean-out Hook, 4 Brass Plug		**(Panel Mounted Push Button)
□ MA2 □ MA3 □ MA4	44) \\	Coupling for (TWE) Toilet Waste Extension:	□ CE	
u MAZ u MA3 u MA4	,		u CE	and adjacent wall)
7) It Brock Brotton Oolootions		S .	□ Oth	· · · · · · · · · · · · · · · · · · ·
7.) Lavatory Push Button Selection:	□ TWC3C	3	☐ Oth	
□ PBH Ligature-resistant Pneumatic	□ TWC4P	Connecting to 4" PVC	u Otr	ner
Push Buttons***	☐ TWC4C	Connecting to 4" Cast Iron	*/D	440) /
□ PZPB Ligature-resistant Piezo Electronic	40 \ = 1 1 1			110V power through ground fault interrupter (GFCI) receptacle /
Push Buttons***	12.) Flush V		breake	7)
	☐ FV	Hydraulic Flush Valve (Includes Actuator)	***! 10	ATURE REGIOTANT RIGOLAIMER
8.) Electronic Controls*		□ 1.28 GPF HET (4.8 Lpf)		ATURE-RESISTANT DISCLAIMER
(Must Use Electronic Lavatory & Flush Valves):		☐ 1.6 GPF ULF (6.0 Lpf)		oduct is designed to minimize ligature points. While every
□ WUCC-3010 □Pneutronic □WMSII		□ 3.5 GPF (13.2 Lpf)****		has been made to reduce the possibility of ligature points,
	EFVP	Electronic Flush Valve w/ (PZPB)		oduct does not eliminate all risks. Ligature-Resistant
		Ligature-resistant Piezo Push Button		ets by Willoughby Industries are to be used in conjunction
		(Pick Control)*/***	with, n	ot as a replacement for, trained professionals.
		☐ 1.28 GPF HET (4.8 Lpf)		
		☐ 1.6 GPF ULF (6.0 Lpf)	****For	replacement fixtures only
		☐ 3.5 GPF (13.2 Lpf)****		
	□ NFV	No Flush Valve (Provided by Others)		

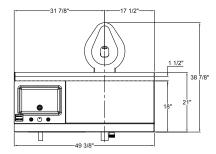
Approved For Manufacturing By:______ Date:_____ Company:_____
Wall Thickness:_____ Wall Type:_____

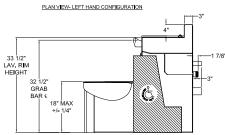
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PLAN VIEW- RIGHT HAND CONFIGURATION







SIDE VIEW (LEFT HAND CONFIGURATION)

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4896-FA Series 49" Wide Handicap-**ADA Front Access Combination Lavatory/** Toilet Unit for use on 90 degree wall





Recommended Specifications



OFFSET LEFT UNIT SHOWN

(Unit may be shown with optional features)

49" Wide Handicap-ADA Front Access Combination Lavatory/Toilet Unit for use on 90 degree wall shall be:

Willoughby Model No. EC__-4896-FA

(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish. Removable access panels, attached w/ security screws shall provide access to fixture interior.

Standard toilet shall include:

- Ligature resistant toilet skirt (extends to floor)
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:

- Rectangular-shaped bowl, 14" x 9-1/2" x 4-3/8" deep
- Stainless steel ligature-resistant bubbler/filler
- Slow drain with air vent
- Self-draining soap dish
- Removable slip-joint brass union 'P' trap (1-1/2" N.P.T.)

An integral behind-toilet grab bar with ligature-resistant closure plate is provided standard.

resistant material.

Optionally selected lavatory valve and flush valve shall be factory installed inside fixture cabinet.

Anchoring shall be from the front, anchoring holes provided. Anchoring hardware provided by others. Standard unit requires no chase area for installation and maintenance, however certain non-standard options may require an accessible chase (see options list for details).

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

To specify fixture and accessories, use the Model Number and Options page.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.



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1.)	Toilet W	aste Location:	9.)	Lavator	y Waste	:	13	.) Other	Options:
	ECW	Wall Outlet		RPT		Removable 'P'-Trap (1-1/2" N.P.T.)		T4	Manual Reset Toilet Overflow Preventer, Req. (FV)
	ECF	Floor Outlet				(Standard)		T4A	Auto Reset Toilet Overflow Preventer, Req. (FV)
				OV		Lavatory Overflow		ET4	Electronic Toilet Overflow Preventer,
2.)	Base Mo	odel Number:		CW1		Combined Waste w/o Clean-out			Requires (EFVP) & (WUCC-3010) or (WMSII)
	4896-F	A 49" Wide Handicap-ADA Front Access		CW2		Combined Waste w/ Clean-out		HS	Hinged White Plastic Seat (Not recommended for
		Combination Lavatory/Toilet Unit for		SLOW		Slow Drain (Standard)			Max. Security/Ligature-resistant use; No Cover)
		use on 90 degree chase wall						RTH	Recessed Tissue Holder (Not ADA Compliant)
			10.) Toilet \	Naste:				(Underneath Lav. Bowl)
		rientation:		GWC		Gasketed Waste Connection		TB1	Single Toothbrush Holder (Not Ligature-resistant),
		Offset Left				(Standard)			(Located beside Lav. Bowl, opposite Toilet)
	R	Offset Right		TWE		Toilet Waste Extension		TB2	Dual Toothbrush Holder (Not Ligature-resistant),
						(Requires Accessible Chase)			(Located beside Lav. Bowl, opposite Toilet)
		Mounting:		TW4		4" Cast Iron Closet Flange		TH1	Single Towel Hook
	ON	On-Floor							(Located beside Lav. Bowl, opposite Toilet)
								TH2	Dual Towel Hook
		Selection:				ng for (TWE) Toilet Waste Extension:	_		(Located beside Lav. Bowl, opposite Toilet)
	DMBH	Ligature-resistant Deck Mounted				cting to 3" PVC			Decorator Color (Fixture exterior only - White)
		Bubbler (Standard)***				cting to 3" Cast Iron		TF24H	,
		(Not for ADA compliant drinking)		TWC4F		Connecting to 4" PVC		TF24P	Plug-in Transformer, 110VAC to 24VAC*
				TWC40	;	Connecting to 4" Cast Iron			High Polish Seat
,		y Valve Selection:						MT	Wall Template
	NV	No Valve) Flush				WS	Wall Sleeve (Requires Accessible Chase)
	PSL1	Single Temp. Pneumatic Non-metering	ш	FV		ulic Flush Valve (Includes Actuator)			12 Gauge Cabinet
	PSL2	Dual Temp. Pneumatic Non-metering				8 GPF HET (4.8 Lpf)		TSC	Toilet Shipping Cover
	PML1	Single Temp. Pneumatic Metering				GPF ULF (6.0 Lpf)			Less Ligature-resistant Toilet Skirt
	PML2	Dual Temp. Pneumatic Metering				GPF (13.2 Lpf)****	ш	DFBH	Ligature-resistant Deck Mounted ADA Compliant Drinking
	E1L1	Single Temp. Electronic (Pick Control)	ш	EFVP		onic Flush Valve w/ (PZPB)			Fountain Bubbler**/ ***
ш	E1L2	Dual Temp. Electronic (Pick Control)				re-resistant Piezo Push Button		CE	**(Panel Mounted Push Button) Cabinet Extension (Under counter, between toilet
_ 、					,	Control)*/***	_	CE	cabinet and adjacent wall)
,		y Push Button Selection:				8 GPF HET (4.8 Lpf)		Other	*
ш	PBH	Ligature-resistant Pneumatic Push				GPF (10.0 L to 0.1 to 0			
	DZDD	Buttons***		NEV		GPF (13.2 Lpf)****		Other	
_	PZPB	Ligature-resistant Piezo Electronic	ш	NFV	NO FIL	sh Valve (Provided by Others)	*/[2ea 110\	/ power through ground fault interrupter (GFCI)
		Push Buttons***					,		/ breaker)
۰,	Electron	nic Controls*					100	ocpiacie i	bicanci)
,		se Electronic I avatory & Flush Valves).					***	IIGATI	IRE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

****For replacement fixtures only

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Approved For Manufac Wall Thickness:	turing By: Wall Type:	_ Date:	Company:	
ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN DUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND INS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.	38 7/8" 11/2" 38 7/8" PLAN VIEW- RIGHT HAND CONFIGURATION IN COMPLIANCE WITH A.D.A. 2010 IN COMPLIANCE WITH C.B.C. 2016, 11B	PLAN VIEW 33 1/2" LAV. RIM HEIGHT GRAB BAR € 18" MH +/- 1/4		

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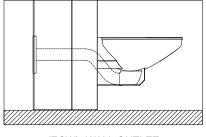
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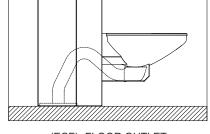


□ WUCC-3010 □Pneutronic □WMSII



TOILET WASTE LOCATION

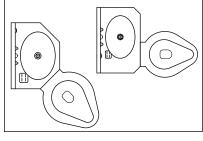




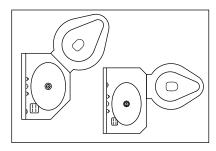
(ECW)- WALL OUTLET

(ECF)- FLOOR OUTLET

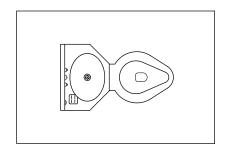
TOILET ORIENTATION



(L)- ANGLED LEFT (L)- OFFSET LEFT

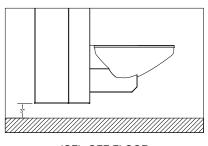


(R)- ANGLED RIGHT (R)- OFFSET RIGHT

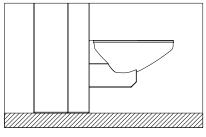


(C)- CENTER

FIXTURE MOUNTING



(OF)- OFF FLOOR



(ON)- ON FLOOR

LAVATORY BUBBLER SELECTION

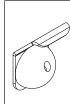


MACHINED STAINLESS STEEL



HEMISPHERICAL
PENAL BUBBLER /
FILLER PROVIDES A
FLOW OF WATER FOR
DRINKING AND FILLING
THE BASIN. DESIGN IS
LIGATURE-RESISTANT.

(BPH)- LIGATURE-RESISTANT BUBBLER / FILLER



MACHINED STAINLESS STEEL

"CODE TYPE" PENAL BUBBLER / FILLER INCLUDES A NON LIGATURE-RESISTANT MOUTH GUARD. MUST SPECIFY WHERE MOUTH GUARDS ARE REQUIRED BY LOCAL CODES.

(BC)- CODE BUBBLER / FILLER



MACHINED STAINLESS STEEL

HEMISPHERICAL LAVATORY FILLER PROVIDES A FLOW OF WATER TO THE LAVATORY BASIN ONLY. DESIGN IS LIGATURE-RESISTANT.

(FLH)- LIGATURE-RESISTANT LAV. FILLER

MACHINED STAINLESS STEEL



HEMISPHERICAL DECK MOUNTED BUBBLER/ FILLER PROVIDES A FLOW OF WATER FOR DRINKING AND FILLING THE BASIN. DESIGN IS LIGATURE-RESISTANT.

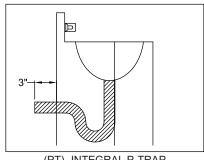
(DMBH)- LIGATURE-RESISTANT DECK MOUNTED BUBBLER / FILLER

LAVATORY WASTE

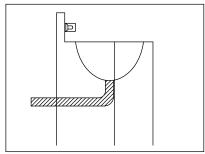


3"

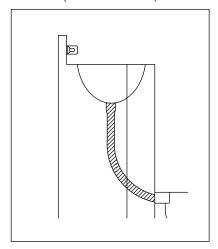
(EB)- ELBOW WASTE (1-1/2" PLAIN END)



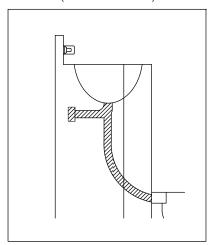
(PT)- INTEGRAL P-TRAP (1-1/2" PLAIN END)



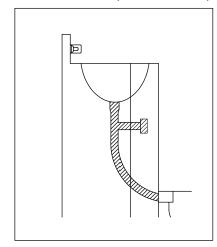
(LWE)- LAVATORY WASTE EXTENSION GREATER THAN 3" (1-1/2" PLAIN END)



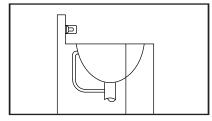
(CW1)- COMBINED WASTE W/O CLEANOUT (CHECK CODES FOR ACCEPTANCE)



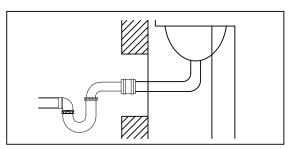
(CW2)- COMBINED WASTE W/ CLEANOUT (1-1/2" PLAIN END) (CHECK CODES FOR ACCEPTANCE)



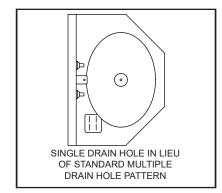
(CW2) FOR "FA"- COMBINED WASTE W/ "FA" CLEANOUT (1-1/2" F.I.P.) (CHECK CODES FOR ACCEPTANCE)



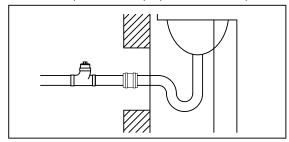
(OV)- LAVATORY OVERFLOW



(LW1)- BRASS THRU-WALL EXTENSION P-TRAP WITH LWC (FOR USE W/ (EB) ELBOW WASTE)



(SLOW)- SLOW DRAIN



(LW2)- BRASS THRU-WALL EXTENSION P-TRAP WITH LWC (FOR USE W/ (PT) INTEGRAL 'P'-TRAP)

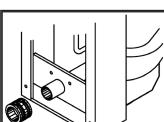
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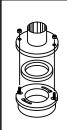
S1-31

TOILET WASTE



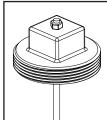
THE TOILET WASTE EXTENSION EXTENDS
THE STAINLESS STEEL WASTE TUBE OUT THE BACK OF THE FIXTURE ALLOWING FOR A NO-HUB TYPE CONNECTION. SPECIAL NO-HUB COUPLING IS REQUIRED. SPECIFY CONNECTING PIPE SIZE AND TYPE.

(TWE)- TOILET WASTE EXTENSION



TOILET WASTE CONNECTION, SUPPLIED COMPLETE WITH Ø5-1/4" NEOPRENE GASKET, 5/16" ANCHOR STUDS AND 4" x 4" CLOSET FLANGE.

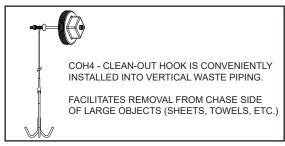
(TW4) 4" CAST IRON CLOSET FLANGE



THE PINNED CLEAN-OUT PLUG IS USED TO STOP LARGE OBJECTS FROM ENTERING THE BUILDING'S MAIN WASTE SYSTEM.

3" PVC OR 4" PVC CLEAN-OUT PLUGS ARE STANDARD. BRASS CLEAN-OUT PLUGS ARE AVAILABLE UPON REQUEST. SPECIFY "PCB" FOR BRASS.

(PC__)- PINNED CLEAN-OUT PLUG



(COH4) CLEAN-OUT HOOK



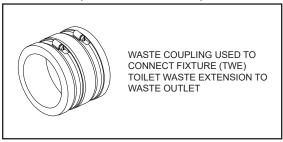
(TW3)- NO-HUB WASTE W/3" CLEAN-OUT



(TW5)- NO-HUB WASTE W/ 4" CLEAN-OUT



(GWC)- GASKETED WASTE CONNECTION (WALL OUTLET SHOWN)



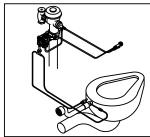
(TWC__)- TOILET WASTE COUPLING



OTHER OPTIONS

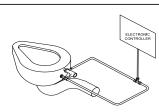


WILLOUGHBY



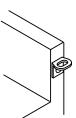
THE TOILET OVERFLOW PREVENTER IS RECOMMENDED FOR FACILITIES WITH HIGH VANDALISM. (T4) IS NORMALLY USED IN CONJUNCTION WITH A BACK SUPPLY TOILET OR **COMBINATION UNIT** WHERE AN ACCESSIBLE PIPE CHASE IS PROVIDED

(T4)- MANUAL RESET TOP FOUR OVERFLOW PREVENTER (REQUIRES HYDRAULIC FLUSH VALVE)



THE ELECTRONIC TOILET OVERFLOW PREVENTER IS RECOMMENDED FOR FACILITIES WITH HIGH VANDALISM AND WHERE WILLOUGHBY **ELECTRONIC** CONTTROLS ARE BEING

(ET4)-ELECTRICAL TOP FOUR OVERFLOW PREVENTER (REQUIRES ELECTRONIC FLUSH VALVE)



TOOTHBRUSH HOLDER(S) CAN BE MOUNTED TO EITHER SIDE OR BOTH SIDES OF THE FIXTURE BACKSPLASH, THE TOOTHBRUSH HOLDER IS FASTENED TO THE FIXTURE CABINET.

(MUST SPECIFY LOCATION)

(TB1)- SINGLE TOOTHBRUSH HOLDER (TB2)- DUAL TOOTHBRUSH HOLDER



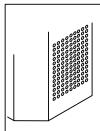
JACKSON CONTROL OR EQUIVALENT 24VAC, 40A TRANSFORMER.

(TF24H) HARDWIRE: FOOT MOUNT END COVERS, VERTICAL W/ 1/2" THREADED CONDUIT HUBS & LOCK NUTS ON BOTH EXITS

(TF24P) PLUG-IN: FOR 110VAC GFCI OUTLET

TRANSFORMER TO BE LABELED WITH "UL" AND "CSA" CERTIFICATION MARKS.

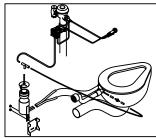
(TF24)- TRANSFORMER, 110VAC TO 24VAC



A SERIES OF 1/4" HOLES PUNCHED ON 1/2" CENTERS PROVIDES AN ECONOMICAL MEANS OF PROVIDING A RETURN AIR SOURCE THROUGH THE FIXTURE AND WALL OPENING. (DUCT WORK AND DUCT FLANGES BY OTHERS).

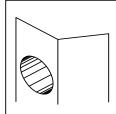
(MUST SPECIFY LOCATION AND FREE AREA REQUIREMENTS.)

(VG)- VENTILATION GRILLE



THE TOILET OVERFLOW PREVENTER IS RECOMMENDED FOR FACILITIES WITH HIGH VANDALISM. (T4A) IS NORMALLY USED IN CONJUNCTION WITH A BACK SUPPLY TOILET OR COMBINATION UNIT WHERE AN ACCESSIBLE PIPE CHASE IS PROVIDED

(T4A)- AUTO RESET TOP FOUR OVERFLOW PREVENTER (REQUIRES HYDRAULIC FLUSH VALVE)



DESIGNED TO ACCOMMODATE A STANDARD TISSUE ROLL. THE TISSUE HOLDER IS WELDED INTO THE CABINET, GROUND SMOOTH AND POLISHED.

(MUST SPECIFY LOCATION)

(RTH)- RECESSED TISSUE HOLDER



THIS PRESSURE ACTIVATED RELEASE TOWEL HOOK WILL SUPPORT LIGHT CLOTHING & TOWEL LOADS, HOWEVER, EXCESSIVE LOADS PLACED ON THE HOOK WILL CAUSE IT TO RELEASE DOWNWARD.

(MUST SPECIFY LOCATION)

(TH1__)- SINGLE TOWEL HOOK (TH2)- DUAL TOWEL HOOK



TOILET SEAT TOP IS POLISHED TO A #7 MIRROR FINISH.

(HPS)- HIGH POLISH SEAT



ELONGATED PLASTIC SEAT IS OF SANITARY, OPEN FRONT DESIGN, NOT RECOMMENDED IN MAXIMUM SECURITY AREAS

(AVAILABLE IN WHITE)

(HS)- HINGED PLASTIC SEAT



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OTHER OPTIONS (CONTINUED)



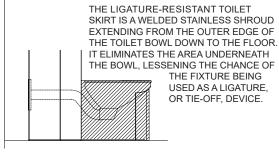


CONSTRUCTED OF 20 GA. GALVANIZED STEEL, WALL SLEEVES PROVIDE FIXTURE PLUMBING ROUGH-IN OPENINGS IN BLOCK/POURED CONCRETE WALLS, BECOMING A PERMANENT PART OF THE WALL

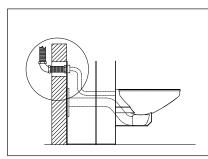
THE Ø1/2" STEEL RODS WELDED TO THE FRAME PROVIDE RIGIDITY AND HINDER ESCAPE INTO THE CHASE SHOULD THE FIXTURE BE REMOVED.

(SLEEVE BRACING IS REQUIRED DURING WALL CONSTRUCTION, BY OTHERS. MUST SPECIFY WALL THICKNESS AND TYPE WHEN ORDERING SLEEVE)

(WS)- WALL SLEEVE



(SK)- LIGATURE-RESISTANT TOILET SKIRT



FLUSH VALVE TAILPIECES ARE FURNISHED STANDARD WITH SLIP JOINT FIXTURE CONNECTIONS . STANDARD SLIP JOINT CONNECTIONS WILL WORK FOR WALL THICKNESSES UP TO 2", BEYOND WHICH THE CONNECTION BECOMES MORE DIFFICULT TO MAKE

WILLOUGHBY RECOMMENDS THE USE OF A THRU-THE-WALL FLUSHING CONNECTION, ALLOWING FOR THE CONNECTION TO BE MADE IN THE CHASE.

(FVT)- FLUSH VALVE THROUGH WALL CONNECTION



(ISH)- INTEGRAL SHELF



PROVIDES WATER SUPPLY CONTROL FOR FLUSHING WATER CLOSETS. DELANY, SLOAN, AND ZURN FLUSH VALVES ARE COMPATIBLE WITH WILLOUGHBY UNITS

FLUSH VALVES ARE AVAILABLE IN 3.5 GPF (13.2 Lpf), 1.6 GPF (6.0 Lpf), AND 1.28 GPF (4.8 Lpf). (SEE S11-SUPPLEMENTAL INFORMATION)

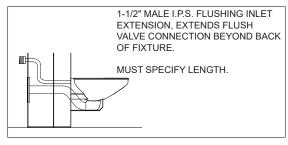
(FV)- FLUSH VALVE



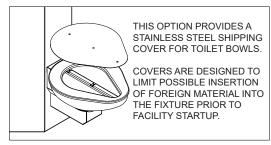
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FLUSH VALVES ARE AVAILABLE IN 3.5 GPF (13.2 Lpf), 1.6 GPF (6.0 Lpf), AND 1.28 GPF (4.8 Lpf). (SEE S11-SUPPLEMENTAL INFORMATION)

(EFVP)- ELECTRONIC FLUSH VALVE w/ (PZPB) (FOR USE W/ WILLOUGHBY ELECTRONIC CONTROLS)



(TFE)- TOILET FLUSH EXTENSION



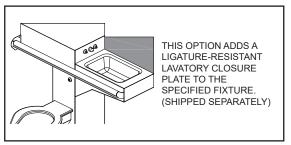
(TSC)- TOILET SHIPPING COVER

MADE IN THE U.S.A.

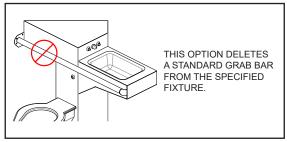
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WILLOUGHBY

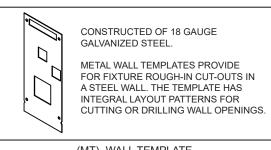
OTHER OPTIONS (CONTINUED)



(LVCP)- LAVATORY CLOSURE PLATE



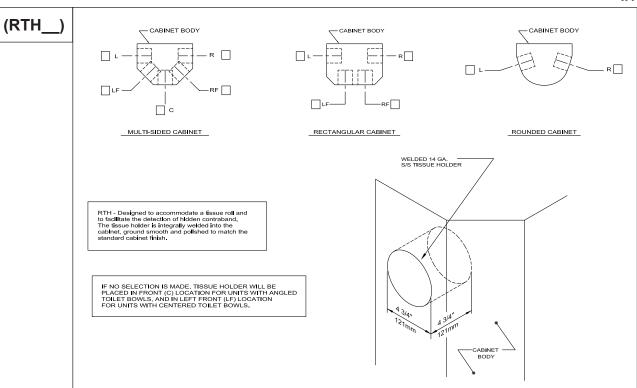
(LGB)- LESS GRAB BAR (ON (GB)-STANDARD COMBI)

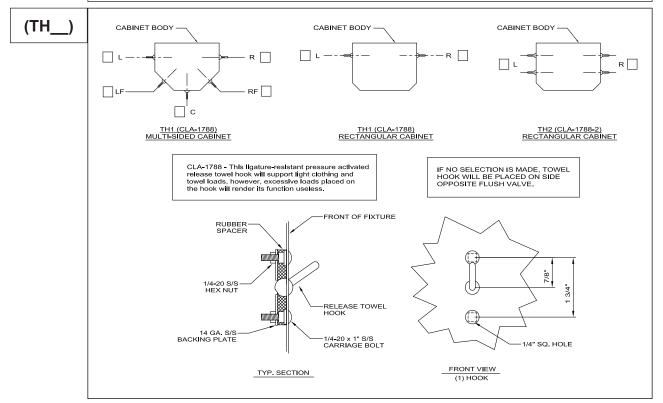


(MT)- WALL TEMPLATE



PLACEMENT DIAGRAMS







W)

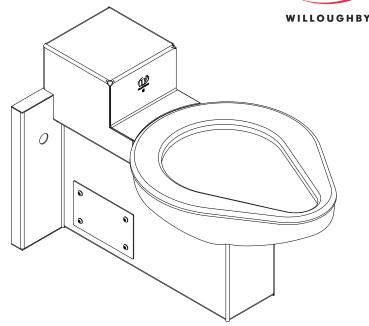
ETW-1490-CM Stainless Steel Carrier Mounted (3-bolt) Wall Outlet Blowout Series Toilet





IN COMPLIANCE* WITH ADA 2010 & CBC 2013, 11B

* IF MOUNTING FIXTURE WITH FINISHED TOILET SEAT HEIGHT BETWEEN 17"-19" A.F.F.



(1.6 GPF UNIT SHOWN)
(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Stainless Steel, Carrier Mounted (3-bolt), Blowout Series Toilet with top spud, 1.6 GPF, gasketed waste connection, hydraulic flush valve, flush valve cover, high polish seat, and toilet shipping cover

Use the following Willoughby Model Number: ETW-1490-CM-TS-1.6-GWC-FV-FVC-HPS-TSC

Recommended Specifications

Stainless Steel, Carrier Mounted (3-bolt), Wall Outlet, Blowout Series Toilet shall be: Willoughby Model No. **ETW-1490-CM** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, T304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be by standard 3-bolt blowout carrier. (Carrier and fasteners by others).

Unit requires no chase area for installation and maintenance <u>unless specified with</u> any Toilet Waste Extension options or Toilet Overflow Preventer options.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



WARNING: Cancer and Reproductive Harm

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MODEL NUMBER AND OPTIONS: 1.) Base Model Number: [Other Options CONTINUED:] ETW-1490-CM Stainless Steel, Carrier Mounted (3-bolt), Wall Outlet ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* **Blowout Series Toilet** TF24P Plug-in Transformer, 110VAC to 24VAC* HPS High Polish Seat TSC Toilet Shipping Cover 2.) Inlet Location: ■ BS Back Spud □ RTH1 Wall Mounted Recessed Tissue Holder TS Top Spud (Rear Mounted, Requires Accessible Chase) ☐ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth) 3.) Toilet Waste: ☐ GWC Gasketed Waste Connection (Standard) □ Other Other 4.) Flush Valve: Hydraulic Flush Valve (Includes Actuator) 6.) Electronic Controls* (Must Use Electronic Flush Valve): ☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf) WUFC-4000 ☐ Pneutronic ☐ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory □ 3.5 GPF (13.2 Lpf)*** Electronic Flush Valve w/ (PZPB) or if the Toilet is selected with an (ET4) overflow option) □ FFVP Ligature-resistant Piezo Push Button (Pick Control)*/** *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) □ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf) □ 3.5 GPF (13.2 Lpf)*** **LIGATURE-RESISTANT DISCLAIMER □ RFVB Remote Flush Valve with Box This product is designed to minimize ligature points. While every effort ☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf) has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in □ 3.5 GPF (13.2 Lpf)*** REFVB Remote Electronic Flush Valve with Box* conjunction with, not as a replacement for, trained professionals. □ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf) ***For replacement fixtures only □ 3.5 GPF (13.2 Lpf)*** NFV No Flush Valve (Provided by Others) 5.) Other Options: Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase Electronic Toilet Overflow Preventer*, Requires (EFVP), ET4 Accessible Chase, & (WUCC-3010) or (WMSII) control FVT Flush Valve Connection (Back Spud Only) ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only) ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)** APFM Flush Valve Access Panel Front Mounted (Allows access to chase mounted flush valve from fixture side) Hinged White Plastic Seat (No Cover, not recommended HS for Maximum Security/Ligature-resistant use) ☐ DC Decorator Color (Fixture exterior only - White) [CONTINUED IN NEXT COLUMN:] Approved For Manufacturing By:_ Company: _ Date: __ Wall Thickness: _ Wall Type:

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN 14 1/4" WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION - 1 1/8" 25 3/4" PLAN VIEW 1-1/2" M.I.P. FLUSH INLET -13 1/2" (GWC) WASTE CONNECTION W/ 5-1/4" GASKET FLANGE (3) Ø7/8" THROUGH CARRIER MOUNTING HOLES (HARDWARE BY OTHERS) 1/2" 4 4" x 3" ACCESS HOLE W/ 14 GA. 1/2 .5 S/S ACCESS PANEL, SECURED W/ (4) 2 VANDAL RESISTANT SCREWS FINISHED FLOOR 4 1/2" SIDE VIEW REAR VIEW

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ETW-1490-ES Stainless Steel Compact Rear Mounted Wall Mounted Blowout Series Toilet





* IF MOUNTING WITH SEAT HEIGHT BETWEEN 17"-19" A.F.F.



(1.6 GPF UNIT SHOWN)
(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Stainless Steel, Compact Blowout Series Toilet with standard back spud, 1.6 GPF, toilet waste extension, 3" PVC waste connection, hydraulic flush valve, flush valve connection, toilet flush extension, high polish seat, wall sleeve, and toilet shipping cover

Use the following Willoughby Model Number: ETW-1490-ES-BS-1.6-TWE-TWC3P-FV-TFE-HPS-WS-TSC

Recommended Specifications

Stainless Steel, Compact, Rear Mounted, Wall Mounted, Blowout Series Toilet shall be: Willoughby Model No. **ETW-1490-ES** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be by standard 6-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick.

Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



WARNING: Cancer and Reproductive Harm

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1.) Base Model Number:

ETW-1490-ES Stainless Steel, Compact, Rear Mounted, Wall Mounted,

Blowout Series Toilet

ETW-1490-ES-ADA

Stainless Steel, Compact, Rear Mounted, Wall Mounted, Blowout Series Toilet(Recommended with ADA grab bar applications)

2.) Inlet Location:

BS Back Spud

3.) Toilet Waste:

	TWE	Toilet	Waste	Extension	(Standard)
--	-----	--------	-------	-----------	------------

TW3 3" Clean-out for (TWE) 4" Clean-out for (TWE) TW5 **GWC** Gasketed Waste Connection

Pinned Clean-out Plug PVC-3" PC3 Pinned Clean-out Plug Brass-3" PCB3 PC4 Pinned Clean-out Plug PVC-4" Pinned Clean-out Plug Brass-4" PCB4

4" Clean-out Hook, 4" PVC Plug COHB4 4" Clean-out Hook, 4" Brass Plug

4.) Waste Coupling for (TWE) Toilet Waste Extension:

TWC3P Connecting to 3" PVC TWC3C Connecting to 3" Cast Iron TWC4P Connecting to 4" PVC TWC4C Connecting to 4" Cast Iron

5.) Flush Valve:

COH4

Hydraulic Flush Valve (Includes Actuator)

☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf)

□ 3.5 GPF (13.2 Lpf)***

□ EFVP Electronic Flush Valve w/ (PZPB)

Ligature-resistant Piezo Push Button

(Pick Control)*/**

☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf)

□ 3.5 GPF (13.2 Lpf)***

□ NFV No Flush Valve (Provided by Others)

6.) Other Options:

□ T4	Manual Reset Toilet Overflow Preventer, Requires:
	(FV) Hydraulic Flush Valve and Accessible Chase
☐ T4A	Auto Reset Toilet Overflow Preventer, Requires:
	(FV) Hydraulic Flush Valve and Accessible Chase
☐ ET4	Electronic Toilet Overflow Preventer*, Requires (EFVP),
	Accessible Chase, & (WUCC-3010) or (WMSII) control

Toilet Flush Extension (Standard) □ TFE AP

Flush Valve Access Panel (Allows access to chase mounted

flush valve from fixture side)

□ DC Decorator Color (Fixture exterior only - White) Hard-wired Transformer, 110VAC to 24VAC TF24H Plug-in Transformer, 110VAC to 24VAC* TF24P

HPS High Polish Seat Wall Template MT

WS Wall Sleeve (Requires Accessible Chase)

TSC Toilet Shipping Cover

Wall Mounted Recessed Tissue Holder RTH1 (Rear Mounted, Requires Accessible Chase)

Wall Mounted Recessed Tissue Holder RTH2 (Front Mounted, 4-1/2" Depth)

Other Other

7.) Electronic Controls* (Must Use Electronic Flush Valve):

WUFC-4000 □ Pneutronic □ WMSII

WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)

**LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

***For replacement fixtures only

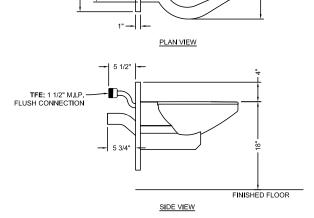
Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		

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18 1/2' PLAN VIEW TFE: 1 1/2" M.I.P. FLUSH CONNECTION FINISHED FLOOR SIDE VIEW

ETW-1490-ES

ETW-1490-ES-ADA



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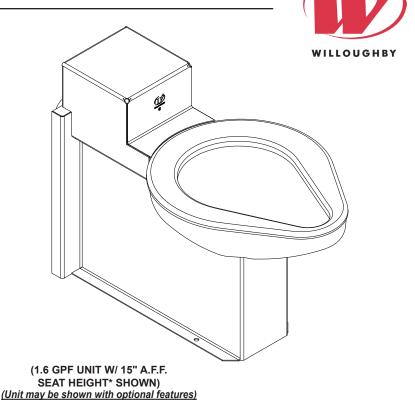
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ETW-1490-FM Stainless Steel Rear Mounted Wall Outlet Floor Mounted Blowout Series Toilet





** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT



To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Stainless Steel, Floor Mounted, Blowout Series Toilet with back spud, standard 15" seat height, 1.6 GPF, toilet waste extension, 3" PVC waste connection, hydraulic flush valve, flush valve connection, high polish seat, wall sleeve, and toilet shipping cover

Use the following Willoughby Model Number: ETW-1490-FM-BS-1.6-TWE-TWC3P-FV-FVT-HPS-WS-TSC

Recommended Specifications

Stainless Steel, Rear Mounted, Wall Outlet, Floor Mounted, Blowout Series Toilet shall be: Willoughby Model No. **ETW-1490-FM** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be by standard 6-point system (4 in the wall and 2 in the floor): threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Floor anchoring by others.

Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



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1.) Base Model Number:

■ ETW-1490-FM Stainless Steel, Rear Mounted, Wall Outlet, Floor Mounted, **Blowout Series Toilet**

2.) Inlet Location:

Back Spud BS TS Top Spud

3.) Toilet Seat Height:

15" Seat Height (Standard)

☐ HC 18" Seat Height, Handicap-ADA Compliant

4.) Toilet Waste:

TWE Toilet Waste Extension (Standard)

TW3 3" Clean-out for (TWE)

4" Clean-out for (TWE) TW5

Gasketed Waste Connection GWC

PC3 Pinned Clean-out Plug PVC-3"

PCB3 Pinned Clean-out Plug Brass-3"

Pinned Clean-out Plug PVC-4" PC4 PCB4 Pinned Clean-out Plug Brass-4"

4" Clean-out Hook, 4" PVC Plug COH4 4" Clean-out Hook, 4" Brass Plug COHB4

5.) Waste Coupling for (TWE) Toilet Waste Extension:

TWC3P Connecting to 3" PVC

TWC3C Connecting to 3" Cast Iron

Connecting to 4" PVC TWC4P TWC4C Connecting to 4" Cast Iron

6.) Flush Valve:

Hydraulic Flush Valve (Includes Actuator) □ FV

☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf)

□ 3.5 GPF (13.2 Lpf)**

□ FFVP Electronic Flush Valve w/ (PZPB)

Ligature-resistant Piezo Push Button

(Pick Control)*/**

☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf)

□ 3.5 GPF (13.2 Lpf)***

□ NFV No Flush Valve (Provided by Others)

7.) Other Options:

□ T4 Manual Reset Toilet Overflow Preventer, Requires:

(FV) Hydraulic Flush Valve and Accessible Chase Auto Reset Toilet Overflow Preventer, Requires:

(FV) Hydraulic Flush Valve and Accessible Chase

□ ET4 Electronic Toilet Overflow Preventer*, Requires (EFVP),

Accessible Chase, & (WUCC-3010) or (WMSII) control

TFE Toilet Flush Extension (Specify if more than 1") FVT Flush Valve Connection (Back Spud Only)

■ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)**

Ligature-resistant ADA Flush Valve Cover (Top Spud Only)** ASFVCADA

 \Box ΔP Flush Valve Access Panel (Allows access to chase mounted

flush valve from fixture side)

HS Hinged White Plastic Seat (No Cover, not recommended

for Maximum Security/Ligature-resistant use) DC Decorator Color (Fixture exterior only - White)

Hard-wired Transformer, 110VAC to 24VAC* TF24H TF24P Plug-in Transformer, 110VAC to 24VAC*

HPS High Polish Seat Wall Template MT

WS Wall Sleeve (Requires Accessible Chase)

TSC Toilet Shipping Cover

RTH1 Wall Mounted Recessed Tissue Holder

(Rear Mounted, Requires Accessible Chase)

□ RTH2 Wall Mounted Recessed Tissue Holder

(Front Mounted, 4-1/2" Depth) □ Other

8.) Electronic Controls* (Must Use Electronic Flush Valve):

■ WUFC-4000 □ Pneutronic ■ WMSII

WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

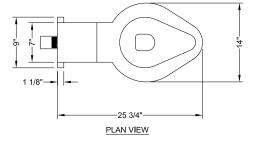
**LIGATURE-RESISTANT DISCLAIMER

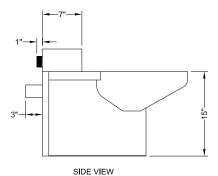
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***For replacement fixtures only

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		, ,

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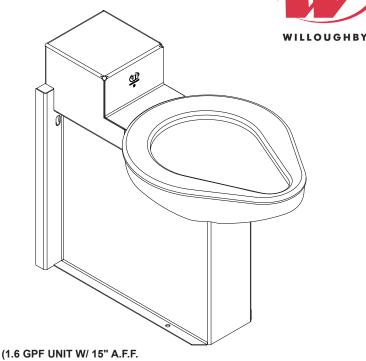
^{*(}Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)

ETW-1490-FM-FA Stainless Steel Front Mounted Wall Outlet Floor Mounted Blowout Series Toilet





** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT



(1.6 GPF UNIT W/ 15" A.F.F. SEAT HEIGHT* SHOWN) (Unit may be shown with optional features)

(Unit may be snown with optional leatures)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Front Access, Stainless Steel, Floor Mounted, Blowout Series Toilet with back spud, standard 15" seat height, 1.6 GPF, gasketed waste connection, hydraulic flush valve, flush valve connection, high polish seat, wall template, and toilet shipping cover

Use the following Willoughby Model Number: ETW-1490-FM-FA-BS-1.6-GWC-FV-FVT-HPS-MT-TSC

Recommended Specifications

Stainless Steel, Front Mounted, Wall Outlet, Floor Mounted, Blowout Series Toilet shall be: Willoughby Model No. **ETW-1490-FM-FA** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be through the front and through the floor (anchoring hardware provided by others).

Unit requires no chase area for installation and maintenance <u>unless specified with</u> any Toilet Waste Extension options or Toilet Overflow Preventer options.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.

WARNING: Cancer and Reproductive Harm
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1.) Base Model Number: ETW-1490-FM-FA Stainless Steel, Front Mounted, Wall Outlet, Floor Mounted, Blowout Series Toilet 2.) Inlet Location: ■ BS Back Spud TS Top Spud 3.) Toilet Seat Height: 15" Seat Height (Standard) 18" Seat Height, Handicap-ADA Compliant HC 4.) Toilet Waste: GWC Gasketed Waste Connection (Standard) PC3 Pinned Clean-out Plug PVC-3" PCB3 Pinned Clean-out Plug Brass-3"

PCB4 5.) Flush Valve:

PC4

☐ FV Hydraulic Flush Valve (Includes Actuator)

Pinned Clean-out Plug PVC-4"

Pinned Clean-out Plug Brass-4"

☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf)

□ 3.5 GPF (13.2 Lpf)***

□ EFVP Electronic Flush Valve w/ (PZPB)

Ligature-resistant Piezo Push Button

(Pick Control)*/*

☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf)

□ 3.5 GPF (13.2 Lpf)***

☐ RFVB Remote Flush Valve with Box

☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf)

□ 3.5 GPF (13.2 Lpf)**

REFVB Remote Electronic Flush Valve with Box*

☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf)

□ 3.5 GPF (13.2 Lpf)**

□ NFV No Flush Valve (Provided by Others)

6.) Other Options:

T4 Manual Reset Toilet Overflow Preventer, Requires:

(FV) Hydraulic Flush Valve and Accessible Chase Electronic Toilet Overflow Preventer*, Requires (EFVP),

Accessible Chase, & (WUCC-3010) or (WMSII) control

Flush Valve Connection (Back Spud Only) □ FVT

ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)** **ASFVCADA** Ligature-resistant ADA Flush Valve Cover (Top Spud Only)**

APFM Flush Valve Access Panel Front Mounted (Allows access to chase

mounted flush valve from fixture side)

☐ HS Hinged White Plastic Seat (No Cover, not recommended

for Maximum Security/Ligature-resistant use)

DC Decorator Color (Fixture exterior only - White) TF24H Hard-wired Transformer, 110VAC to 24VAC* Plug-in Transformer, 110VAC to 24VAC*

TF24P HPS High Polish Seat

Wall Template MT TSC Toilet Shipping Cover

RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)

□ RTH2 Wall Mounted Recessed Tissue Holder

(Front Mounted, 4-1/2" Depth)

□ Other

7.) Electronic Controls* (Must Use Electronic Flush Valve):

WUFC-4000 □ Pneutronic

☐ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)

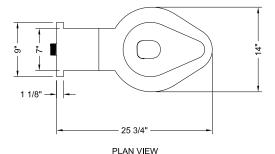
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***For replacement fixtures only

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		

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ETW-1490-OF Stainless Steel Rear Mounted Wall Outlet Wall Mounted Blowout Series Toilet





* IF MOUNTING WITH SEAT HEIGHT BETWEEN 17"-19" A.F.F.



(1.6 GPF UNIT SHOWN)
(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Stainless Steel, Off Floor Mounted, Blowout Series Toilet with back spud, 1.6 GPF, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, high polish sea wall sleeve, and toilet shipping cover

Use the following Willoughby Model Number: ETW-1490-OF-BS-1.6-TWE-TWC3P-FV-FVT-HPS-WS-TSC

Recommended Specifications

Stainless Steel, Rear Mounted, Wall Outlet, Wall Mounted, Blowout Series Toilet shall be: Willoughby Model No. **ETW-1490-OF** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick.

Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



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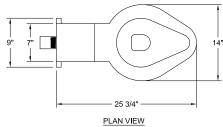


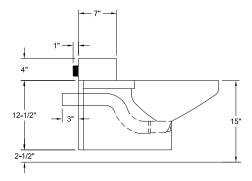
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MODEL NUMBER AND OPTIONS:					
1.) Base Model Number:	[Other Options CONTINUED:]				
☐ ETW-1490-OF Stainless Steel, Rear Mounted, Wall Outlet, Wall Mounted,	☐ T4A Auto Reset Toilet Overflow Preventer, Requires:				
Blowout Series Toilet	(FV) Hydraulic Flush Valve and Accessible Chase				
	☐ ET4 Electronic Toilet Overflow Preventer*, Requires (EFVP),				
2.) Inlet Location:	Accessible Chase, & (WUCC-3010) or (WMSII) control				
□ BS Back Spud	☐ TFE Toilet Flush Extension (Specify if more than 1")				
□ TS Top Spud	□ FVT Flush Valve Connection (Back Spud Only)				
->- w	□ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)**				
3.) Toilet Waste:	□ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)**				
☐ TWE Toilet Waste Extension (Standard)	☐ AP Flush Valve Access Panel (Allows access to chase mounted				
□ TW3 3" Clean-out for (TWE)	flush valve from fixture side)				
□ TW5 4" Clean-out for (TWE)	☐ HS Hinged White Plastic Seat (No Cover, not recommended				
GWC Gasketed Waste Connection	for Maximum Security/Ligature-resistant use)				
□ PC3 Pinned Clean-out Plug PVC-3"	DC Decorator Color (Fixture exterior only - White)				
□ PCB3 Pinned Clean-out Plug Brass-3"	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*				
□ PC4 Pinned Clean-out Plug PVC-4"	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*				
□ PCB4 Pinned Clean-out Plug Brass-4"	☐ HPS High Polish Seat				
□ COH4 4" Clean-out Hook, 4" PVC Plug	☐ MT Wall Template				
□ COHB4 4" Clean-out Hook, 4" Brass Plug	☐ WS Wall Sleeve (Requires Accessible Chase)				
	☐ TSC Toilet Shipping Cover				
4.) Waste Coupling for (TWE) Toilet Waste Extension:	□ RTH1 Wall Mounted Recessed Tissue Holder				
☐ TWC3P Connecting to 3" PVC	(Rear Mounted, Requires Accessible Chase)				
☐ TWC3C Connecting to 3" Cast Iron	□ RTH2 Wall Mounted Recessed Tissue Holder				
☐ TWC4P Connecting to 4" PVC	(Front Mounted, 4-1/2" Depth)				
□ TWC4C Connecting to 4" Cast Iron	□ Other				
5.) Flush Valve:	7.) Electronic Controls* (Must Use Electronic Flush Valve):				
☐ FV Hydraulic Flush Valve (Includes Actuator)	□ WUFC-4000 □ Pneutronic □ WMSII				
□ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf)	□ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory				
□ 3.5 GPF (13.2 Lpf)***	or if the Toilet is selected with an (ET4) overflow option)				
☐ EFVP Electronic Flush Valve w/ (PZPB)	of it the foliatio beloated with all (E14) of other option)				
Ligature-resistant Piezo Push Button	*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)				
(Pick Control)*/**	(17eq. 1107 power tillough ground lauk likerrupter (Gr Cr) receptable / breaker)				
□ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf)	**LIGATURE-RESISTANT DISCLAIMER				
□ 3.5 GPF (13.2 Lpf)***	This product is designed to minimize ligature points. While every effort has been				
□ NFV No Flush Valve (Provided by Others)	made to reduce the possibility of ligature points, this product does not eliminate all				
INFV NO Flush valve (Flovided by Others)	risks. Ligature-Resistant products by Willoughby Industries are to be used in				
6 \ Other Ontione	conjunction with, not as a replacement for, trained professionals.				
6.) Other Options: The Manual Reset Toilet Overflow Preventer, Requires:	conjunction with, not as a replacement for, trained professionals.				
· · · · · · · · · · · · · · · · · · ·	****				
(FV) Hydraulic Flush Valve and Accessible Chase	***For replacement fixtures only				
[CONTINUED IN NEXT COLUMN:]					
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ETWS-1490-CM Stainless Steel Carrier Mounted (4-bolt) Wall Outlet Siphon Jet Series Toilet





* IF MOUNTING WITH SEAT HEIGHT BETWEEN 17"-19" A.F.F.



(1.6 GPF UNIT SHOWN)
(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Stainless Steel, Carrier Mounted (4-bolt) Siphon Jet Toilet with back spud, 1.6 GPF, gasketed waste connection, hydraulic flush valve, flush valve connection, high polish seat, and toilet shipping cover

Use the following Willoughby Model Number: ETWS-1490-CM-BS-1.6-GWC-FV-FVT-HPS-TSC

Recommended Specifications

Stainless Steel, Carrier Mounted (4-bolt), Wall Outlet, Siphon Jet Toilet shall be: Willoughby Model No. **ETWS-1490-CM** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

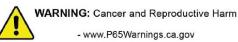
Anchoring shall be by standard 4-bolt siphon jet carrier. (Carrier and fasteners by others).

Unit requires no chase area for installation and maintenance <u>unless specified with</u> any Toilet Waste Extension options or Toilet Overflow Preventer options.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



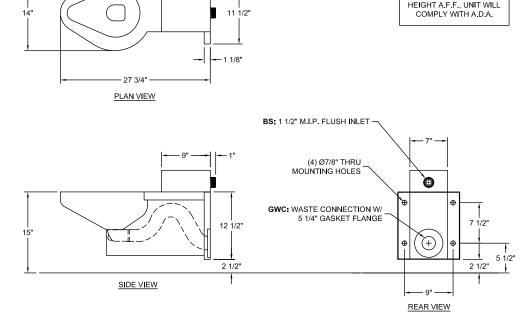


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MODEL NUMBER AND OPTIONS: 1.) Base Model Number: [Other Options CONTINUED:] ETWS-1490-CM Stainless Steel, Carrier Mounted (4-bolt), Wall Outlet, □ HS Hinged White Plastic Seat (No Cover, not recommended Siphon Jet Toilet for Maximum Security/Ligature-resistant use) ☐ DC Decorator Color (Fixture exterior only - White) Hard-wired Transformer, 110VAC to 24VAC* 2.) Inlet Location: TF24H ■ BS Back Spud TF24P Plug-in Transformer, 110VAC to 24VAC* TS Top Spud HPS High Polish Seat TSC Toilet Shipping Cover 3.) Toilet Waste: RTH1 Wall Mounted Recessed Tissue Holder GWC Gasketed Waste Connection (Standard) (Rear Mounted, Requires Accessible Chase) RTH2 Wall Mounted Recessed Tissue Holder 4.) Flush Valve: (Front Mounted, 4-1/2" Depth) Hydraulic Flush Valve (Includes Actuator) Other ☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf) Other □ 3.5 GPF (13.2 Lpf)*** Electronic Flush Valve w/ (PZPB) □ EFVP 6.) Electronic Controls* (Must Use Electronic Flush Valve): Ligature-resistant Piezo Push Button □ WUFC-4000 ■ Pneutronic □ WMSII (Pick Control)*/** ☐ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory ☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf) □ 3.5 GPF (13.2 Lpf)*** or if the Toilet is selected with an (ET4) overflow option) RFVB Remote Flush Valve with Box □ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf) *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) □ 3.5 GPF (13.2 Lpf)*** Remote Electronic Flush Valve with Box* REFVB **LIGATURE-RESISTANT DISCLAIMER ☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf) This product is designed to minimize ligature points. While every effort has □ 3.5 GPF (13.2 Lpf)* been made to reduce the possibility of ligature points, this product does not No Flush Valve (Provided by Others) NFV eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. 5.) Other Options: T4 Manual Reset Toilet Overflow Preventer, Requires: ***For replacement fixtures only (FV) Hydraulic Flush Valve and Accessible Chase Electronic Toilet Overflow Preventer*, Requires (EFVP), ET4 Accessible Chase, & (WUCC-3010) or (WMSII) control FVT Flush Valve Connection (Back Spud Only) **ASFVC** Flush Valve Cover (Ligature-resistant, Top Spud Only)** **ASFVCADA** \Box Ligature-resistant ADA Flush Valve Cover (Top Spud Only)** APFM Flush Valve Access Panel Front Mounted (Allows access to chase mounted flush valve from fixture side) [CONTINUED IN NEXT COLUMN:]

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Type:

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IF MOUNTED AT PROPER

ETWS-1490-FM Stainless Steel Rear Mounted Wall Outlet Floor Mounted Siphon Jet Series Toilet





** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT



(1.6 GPF UNIT W/ 15 A.F.F.

SEAT HEIGHT* SHOWN)

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Stainless Steel, Floor Mounted, Siphon Jet Series Toilet with back spud, standard 15" seat height, 1.6 GPF, toilet waste extension, 3" PVC waste connection, hydraulic flush valve, flush valve connection, high polish seat, wall sleeve, and toilet shipping cover

Use the following Willoughby Model Number: ETWS-1490-FM-BS-1.6-TWE-TWC3P-FV-FVT-HPS-WS-TSC

Recommended Specifications

Stainless Steel, Rear Mounted, Wall Outlet, Floor Mounted, Siphon Jet Series Toilet shall be: Willoughby Model No. **ETWS-1490-FM** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be by standard 6-point system (4 in the wall and 2 in the floor): threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Floor anchoring hardware by others.

Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



WARNING: Cancer and Reproductive Harm

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1.) Base Model Number: ■ ETWS-1490-FM Stainless Steel, Rear Mounted, Wall Outlet, Floor Mounted, Siphon Jet Series Toilet 2.) Inlet Location: ☐ BS Back Spud TS Top Spud 3.) Toilet Seat Height: 15" Seat Height (Standard) □ нс 18" Seat Height, Handicap-ADA Compliant 4.) Toilet Waste: TWE Toilet Waste Extension (Standard) TW3 3" Clean-out for (TWE) TW5 4" Clean-out for (TWE) Gasketed Waste Connection GWC Pinned Clean-out Plug PVC-3" PC3 PCB3 Pinned Clean-out Plug Brass-3" PC4 Pinned Clean-out Plug PVC-4" PCB4 Pinned Clean-out Plug Brass-4" 4" Clean-out Hook, 4" PVC Plug COH4 COHB4 4" Clean-out Hook, 4" Brass Plug 5.) Waste Coupling for (TWE) Toilet Waste Extension: TWC3P Connecting to 3" PVC Connecting to 3" Cast Iron TWC3C Connecting to 4" PVC TWC4P TWC4C Connecting to 4" Cast Iron

6.) Flush Valve:□ FV Hydraulic Flush Valve (Includes Actuator)

☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf)

□ 3.5 GPF (13.2 Lpf)***

☐ EFVP Electronic Flush Valve w/ (PZPB)

Ligature-resistant Piezo Push Button

(Pick Control)*/**

□ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf)

□ 3.5 GPF (13.2 Lpf)***

☐ NFV No Flush Valve (Provided by Others)

7.) Other Options:

Ц	T4	Manual Reset Toilet Overflow Preventer, Requires:
		(FV) Hydraulic Flush Valve and Accessible Chase
	T4A	Auto Reset Toilet Overflow Preventer, Requires:
		(FV) Hydraulic Flush Valve and Accessible Chase
	ET4	Electronic Toilet Overflow Preventer*, Requires (EFVP),
		Accessible Chase, & (WUCC-3010) or (WMSII) control
	TFE	Toilet Flush Extension (Specify if more than 1")
	FVT	Flush Valve Connection (Back Spud Only)
	ASFVC	Flush Valve Cover (Ligature-resistant, Top Spud Only)**
	ASFVCA	DA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)**
	AP	Flush Valve Access Panel (Allows access to chase mounted
		flush valve from fixture side)
	HS	Hinged White Plastic Seat (No Cover, not recommended
		for Maximum Security/Ligature-resistant use)
	DC	Decorator Color (Fixture exterior only - White)
	TF24H	Hard-wired Transformer, 110VAC to 24VAC*
	TF24P	Plug-in Transformer, 110VAC to 24VAC*
	HPS	High Polish Seat
	MT	Wall Template
	WS	Wall Sleeve (Requires Accessible Chase)
	TSC	Toilet Shipping Cover
	RTH1	Wall Mounted Recessed Tissue Holder
		(Rear Mounted, Requires Accessible Chase)
	RTH2	Wall Mounted Recessed Tissue Holder
		(Front Mounted, 4-1/2" Depth)
	Other _	

8.) Electronic Controls* (Must Use Electronic Flush Valve):

□ WUFC-4000 □ Pneutronic □ WMSII

☐ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

**LIGATURE-RESISTANT DISCLAIMER

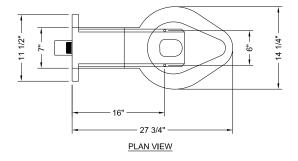
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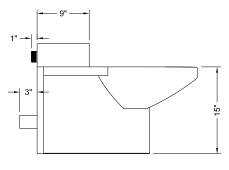
***For replacement fixtures only

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		

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S2-14





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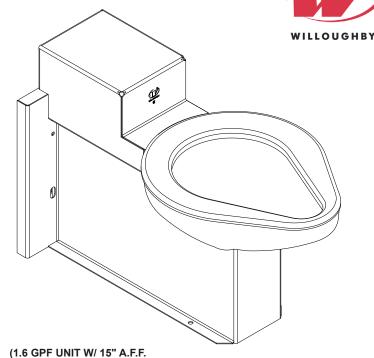
^{*(}Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)

ETWS-1490-FM-FA Stainless Steel **Front Mounted Wall Outlet** Floor Mounted **Siphon Jet Series Toilet**





USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT



SEAT HEIGHT* SHOWN) (Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Front Access, Stainless Steel, Floor Mounted Siphon Jet Series Toilet with back spud, standard 15" seat height, 1.6 GPF, gasketed waste connection, hydraulic flush valve, flush valve connection, high polish seat, and toilet shipping cover

Use the following Willoughby Model Number: ETWS-1490-FM-FA-BS-1.6-GWC-FV-FVT-HPS-TSC

Recommended Specifications

Stainless Steel, Front Mounted, Wall Outlet, Floor Mounted, Siphon Jet Series Toilet shall be: Willoughby Model No. ETWS-1490-FM-FA (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be through the front and through the floor(anchoring hardware provided by others).

Unit requires no chase area for installation and maintenance unless specified with any Toilet Waste Extension options or Toilet Overflow Preventer options.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



WARNING: Cancer and Reproductive Harm

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1.) Base Model Number: ETWS-1490-FM-FA Stainless Steel, Front Mounted, Wall Outlet, Floor Mounted, Siphon Jet Series Toilet 2.) Inlet Location: ☐ BS Back Spud □ TS Top Spud 3.) Toilet Seat Height: 15" Seat Height (Standard) \Box 18" Seat Height, Handicap-ADA Compliant HC 4.) Toilet Waste: Gasketed Waste Connection (Standard) GWC PC3 Pinned Clean-out Plug PVC-3" PCB3 Pinned Clean-out Plug Brass-3" PC4 Pinned Clean-out Plug PVC-4" PCB4 Pinned Clean-out Plug Brass-4" \Box

5.) Flush Valve:

FV Hydraulic Flush Valve (Includes Actuator)

□ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf)

□ 3.5 GPF (13.2 Lpf)***

□ EFVP Electronic Flush Valve w/ (PZPB)

Ligature-resistant Piezo Push Button

(Pick Control)*/**

☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf)

□ 3.5 GPF (13.2 Lpf)***

□ RFVB Remote Flush Valve with Box

☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf)

□ 3.5 GPF (13.2 Lpf)***

□ REFVB Remote Electronic Flush Valve with Box*

□ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf)

□ 3.5 GPF (13.2 Lpf)***

■ NFV No Flush Valve (Provided by Others)

6.) Other Options:

☐ T4 Manual Reset Toilet Overflow Preventer, Requires:

(FV) Hydraulic Flush Valve and Accessible Chase

□ ET4 Electronic Toilet Overflow Preventer*, Requires (EFVP),
Accessible Chase, & (WUCC-3010) or (WMSII) control

☐ FVT Flush Valve Connection (Back Spud Only)

□ ASFVC
 □ ASFVCADA
 Flush Valve Cover (Ligature-resistant, Top Spud Only)**
 □ Ligature-resistant ADA Flush Valve Cover (Top Spud Only)**

☐ APFM Flush Valve Access Panel Front Mounted (Allows access to chase

mounted flush valve from fixture side)

☐ HS Hinged White Plastic Seat (No Cover, not recommended

for Maximum Security/Ligature-resistant use)

DC Decorator Color (Fixture exterior only - White)

☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*

□ TF24P Plug-in Transformer, 110VAC to 24VAC*□ HPS High Polish Seat

□ HPS High Polish Seat□ MT Wall Template

☐ TSC Toilet Shipping Cover

□ RTH1 Wall Mounted Recessed Tissue Holder

(Rear Mounted, Requires Accessible Chase)
RTH2 Wall Mounted Recessed Tissue Holder

□ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)

□ RFVB Remote Flush Valve with Box

□ REFVB Remote Electronic Flush Valve with Box*

□ Other _____

7.) Electronic Controls* (Must Use Electronic Flush Valve):

□ WUFC-4000 □ Pneutronic □ WMSII

□ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)

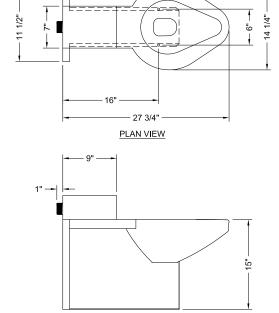
**LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

***For replacement fixtures only

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		

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ETWS-1490-OF Stainless Steel Rear Mounted Wall Outlet Wall Mounted Siphon Jet Series Toilet





* IF MOUNTING WITH SEAT HEIGHT BETWEEN 17"-19" A.F.F.



(1.6 GPF UNIT SHOWN) (Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Stainless Steel, Off Floor Mounted, Siphon Jet Series Toilet with back spud, 1.6 GPF, toilet waste extension, 3" PVC waste connection, hydraulic flush valve, flush valve connection, high polish seat, wall sleeve, and toilet shipping cover

Use the following Willoughby Model Number: ETWS-1490-OF-BS-1.6-TWE-TWC3P-FV-FVT-HPS-WS-TSC

Recommended Specifications

Stainless Steel, Rear Mounted, Wall Outlet, Wall Mounted, Siphon Jet Series Toilet shall be: Willoughby Model No. **ETWS-1490-OF** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

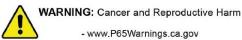
Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick.

Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.



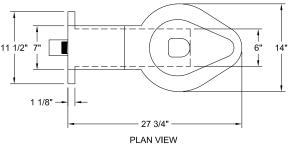
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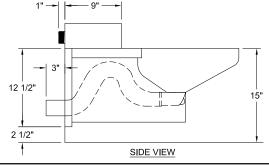


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MODEL NUMBER AND OPTIONS: 1.) Base Model Number: [Other Options CONTINUED:] ETWS-1490-OF Stainless Steel, Rear Mounted, Wall Outlet, Wall Mounted, ☐ T4A Auto Reset Toilet Overflow Preventer, Requires Siphon Jet Series Toilet (FV) Hydraulic Flush Valve and Accessible Chase □ FT4 Electronic Toilet Overflow Preventer*, Requires (EFVP), 2.) Inlet Location: Accessible Chase, & (WUCC-3010) or (WMSII) control Toilet Flush Extension (Specify if more than 1") ■ BS Back Spud TFE □ TS Top Spud Flush Valve Connection (Back Spud Only) FVT ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)** \Box 3.) Toilet Waste: **ASFVCADA** Ligature-resistant ADA Flush Valve Cover (Top Spud Only)** TWE Toilet Waste Extension (Standard) Flush Valve Access Panel (Allows access to chase mounted AP \Box 3" Clean-out for (TWE) TW3 flush valve from fixture side) TW5 4" Clean-out for (TWE) ☐ HS Hinged White Plastic Seat (No Cover, not recommended **GWC** Gasketed Waste Connection for Maximum Security/Ligature-resistant use) Pinned Clean-out Plug PVC-3" DC PC3 Decorator Color (Fixture exterior only - White) PCB3 Pinned Clean-out Plug Brass-3" TF24H Hard-wired Transformer, 110VAC to 24VAC* PC4 Pinned Clean-out Plug PVC-4" TF24P Plug-in Transformer, 110VAC to 24VAC* PCB4 Pinned Clean-out Plug Brass-4" HPS High Polish Seat \Box 4" Clean-out Hook, 4" PVC Plug \Box COH4 MT Wall Template COHB4 4" Clean-out Hook, 4" Brass Plug WS Wall Sleeve (Requires Accessible Chase) TSC Toilet Shipping Cover 4.) Waste Coupling for (TWE) Toilet Waste Extension: RTH1 Wall Mounted Recessed Tissue Holder TWC3P Connecting to 3" PVC (Rear Mounted, Requires Accessible Chase) Wall Mounted Recessed Tissue Holder TWC3C Connecting to 3" Cast Iron RTH2 Connecting to 4" PVC (Front Mounted, 4-1/2" Depth) TWC4P TWC4C Connecting to 4" Cast Iron \Box Other 7.) Electronic Controls* (Must Use Electronic Flush Valve): 5.) Flush Valve: □ FV Hydraulic Flush Valve (Includes Actuator) ☐ WUFC-4000 Pneutronic □ WMSII □ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf) WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory □ 3.5 GPF (13.2 Lpf)** or if the Toilet is selected with an (ET4) overflow option) Electronic Flush Valve w/ (PZPB) □ EFVP Ligature-resistant Piezo Push Button *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) (Pick Control)*/** **LIGATURE-RESISTANT DISCLAIMER ☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf) This product is designed to minimize ligature points. While every effort has been □ 3.5 GPF (13.2 Lpf)*** No Flush Valve (Provided by Others) made to reduce the possibility of ligature points, this product does not eliminate ■ NFV all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. 6.) Other Options: T4 Manual Reset Toilet Overflow Preventer, Requires: ***For replacement fixtures only (FV) Hydraulic Flush Valve and Accessible Chase [CONTINUED IN NEXT COLUMN:] Approved For Manufacturing By:_ Company: _ Wall Thickness: _ Wall Type:

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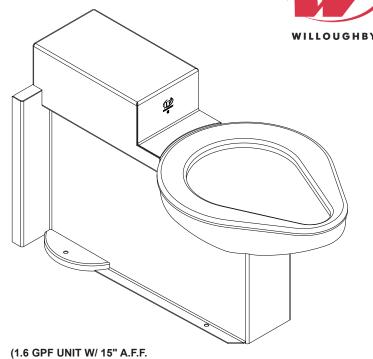


ETF-1490-FM Stainless Steel Rear Mounted Floor Outlet Floor Mounted Siphon Jet Series Toilet





** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT



(1.6 GPF UNIT W/ 15" A.F.F.
SEAT HEIGHT* SHOWN)
(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an ETF-1490-FM floor mounted, floor outlet siphon jet toilet with top spud, standard 15" seat height, 1.6 GPF, standard gasketed waste connection, floor outlet waste connection, hydraulic flush valve, flush valve cover, high polish seat, wall sleeve, and toilet shipping cover

Use the following Willoughby Model Number: ETF-1490-FM-TS-1.6-GWC-TW4-FV-FVC-HPS-WS-TSC

Recommended Specifications

Stainless Steel, Rear Mounted, Floor Outlet, Floor Mounted, Siphon Jet Series Toilet shall be: Willoughby Model No. **ETF-1490-FM** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Floor anchoring hardware by others.

Unit shall require chase area for installation and maintenance.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.

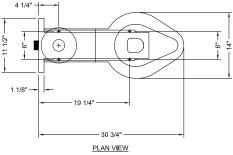
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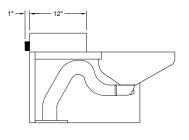


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1.) Base	Model Number:			[Other Options CONTINUED:]
□ ETF	-1490-FM Stainless Steel, Rear Mounted, Floor Outlet, Floor Mounted, Siphon Jet Series Toilet		TFE FVT ASFVC	Toilet Flush Extension (Specify if more than 1") Flush Valve Connection (Back Spud Only) Flush Valve Cover (Lienture registert, Ten Spud Only)**
2 \ Ele	Outlet Bough Inc		ASFVC	Flush Valve Cover (Ligature-resistant, Top Spud Only)**
	Outlet Rough-In:			0 (11)
☐ 10"	4-1/4" Fixture Rough-In (Shown, Standard)	Ц	AP	Flush Valve Access Panel (Allows access to chase mounted
□ 10"	10" Fixture Rough-In		110	flush valve from fixture side)
□ 12"	12" Fixture Rough-In (Changes Overall Fixture Length to 32-3/4")		HS	Hinged White Plastic Seat (No Cover, not recommended
0 \ -4	Landton		D0	for Maximum Security/Ligature-resistant use)
•	Location:		DC	Decorator Color (Fixture exterior only - White)
□ BS	Back Spud		TF24H	Hard-wired Transformer, 110VAC to 24VAC*
☐ TS	Top Spud		TF24P	Plug-in Transformer, 110VAC to 24VAC*
			HPS	High Polish Seat
•	t Seat Height:		MT	Wall Template
	15" Seat Height (Standard)		WS	Wall Sleeve (Requires Accessible Chase)
☐ HC	18" Seat Height, Handicap-ADA Compliant		TSC	Toilet Shipping Cover
			RTH1	Wall Mounted Recessed Tissue Holder
5.) Toile	t Waste:			(Rear Mounted, Requires Accessible Chase)
☐ GW	C Gasketed Waste Connection (Standard)		RTH2	Wall Mounted Recessed Tissue Holder
☐ TW4	4" Cast Iron Closet Flange			(Front Mounted, 4-1/2" Depth)
			Other	
6.) Flush	ı Valve:			
☐ FV	Hydraulic Flush Valve (Includes Actuator)	8.)	Electron	ic Controls* (Must Use Electronic Flush Valve):
	☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf)		WUFC-	4000 Pneutronic WMSII
	□ 3.5 GPF (13.2 Lpf)***		WUCC-	3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory
□ EFV	P Electronic Flush Valve w/ (PZPB)			or if the Toilet is selected with an (ET4) overflow option)
	Ligature-resistant Piezo Push Button			·· · · · · · · · · · · · · · · · · ·
	(Pick Control)*/**	*(8	ea 110V	power through ground fault interrupter (GFCI) receptacle / breaker)
	□ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf)	(.		perior amongri ground radic interruptor (or or) recoptació, producti,
	□ 3.5 GPF (13.2 Lpf)***	**	IGATUE	RE-RESISTANT DISCLAIMER
□ NFV				ct is designed to minimize ligature points. While every effort has
□ INFV	No Flush valve (Flovided by Others)			e to reduce the possibility of ligature points, this product does not
7 \ O4h a	- Ontions			Il risks. Ligature-Resistant products by Willoughby Industries are to
7.) Othe	r Options:			conjunction with, not as a replacement for, trained professionals.
1 4	Manual Reset Toilet Overflow Preventer, Requires:	ре	useu III	conjunction with, not as a replacement for, trained professionals.
	(FV) Hydraulic Flush Valve and Accessible Chase			
☐ T4A	, I	***	For replac	cement fixtures only
	(FV) Hydraulic Flush Valve and Accessible Chase			
□ ET4	, 1 , 7,			
	Accessible Chase, & (WUCC-3010) or (WMSII) control			
	[CONTINUED IN NEXT COLUMN:]			
Annr	oved For Manufacturing By:		Doto:	Company
Appri	oved For Mandiacturing by.		Date	Company:
Wall	Thickness: Wall Type:			
	4 1/4" -			
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VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.





SIDE VIEW

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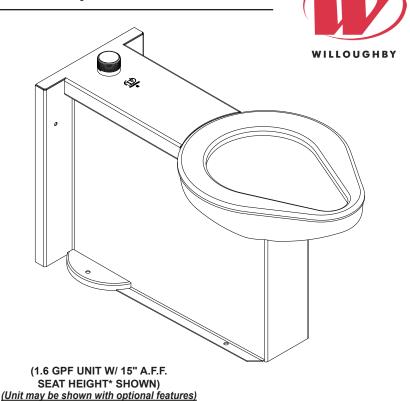


ETF-1490-FM-FA Stainless Steel Front Mounted Floor Outlet Floor Mounted Siphon Jet Series Toilet





** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT



To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Front Access, Floor Outlet, Floor Mounted Siphon Jet Series Toilet with top spud, standard 15" seat height, 1.6 GPF, standard gasketed waste connection, floor outlet waste connection, hydraulic flush valve, flush valve cover, high polish seat, and toilet shipping cover

Use the following Willoughby Model Number: ETF-1490-FM-FA-TS-1.6-GWC-TW4-FV-FVC-HPS-TSC

Recommended Specifications

Stainless Steel, Front Mounted, Floor Outlet, Floor Mounted, Siphon Jet Series Toilet shall be: Willoughby Model No. **ETF-1490-FM-FA** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be through the front and through the floor (anchoring hardware provided by others).

Unit requires no chase area for installation and maintenance <u>unless specified with</u> any Toilet Waste Extension options or Toilet Overflow Preventer options.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.

WARNING: Cancer and Reproductive Harm
- www.P65Warnings.ca.gov



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MODEL NUMBER AND OPTIONS: 7.) Other Options: 1.) Base Model Number: ETF-1490-FM-FA Stainless Steel, Front Mounted, Floor Outlet, □ T4 Manual Reset Toilet Overflow Preventer, Requires: Floor Mounted, Siphon Jet Series Toilet (FV) Hydraulic Flush Valve and Accessible Chase □ ET4 Electronic Toilet Overflow Preventer*, Requires (EFVP), 2.) Floor Outlet Rough-In: Accessible Chase, & (WUCC-3010) or (WMSII) control □ FVT 4-1/4" Fixture Rough-In (Shown, Standard) Flush Valve Connection (Back Spud Only) 10' 10" Fixture Rough-In ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)** Ligature-resistant ADA Flush Valve Cover (Top Spud Only)** 12' 12" Fixture Rough-In (Changes Overall Fixture Length to 32-3/4") ASFVCADA **APFM** Flush Valve Access Panel Front Mounted (Allows access to chase 3.) Inlet Location: mounted flush valve from fixture side) BS Back Spud □ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use) TS Top Spud DC Decorator Color (Fixture exterior only - White) TF24H Hard-wired Transformer, 110VAC to 24VAC* 4.) Toilet Seat Height: Plug-in Transformer, 110VAC to 24VAC* 15" Seat Height (Standard) TF24P HC 18" Seat Height, Handicap-ADA Compliant **HPS** High Polish Seat MT Wall Template Toilet Shipping Cover 5.) Toilet Waste: \Box TSC Gasketed Waste Connection (Standard) RTH1 Wall Mounted Recessed Tissue Holder **GWC** TW4 4" Cast Iron Closet Flange (Rear Mounted, Requires Accessible Chase) ☐ RTH2 Wall Mounted Recessed Tissue Holder 6.) Flush Valve: (Front Mounted, 4-1/2" Depth) Hydraulic Flush Valve (Includes Actuator) FV \Box Other ☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf) Other □ 3.5 GPF (13.2 Lpf)** EFVP Electronic Flush Valve w/ (PZPB) 8.) Electronic Controls* (Must Use Electronic Flush Valve): Ligature-resistant Piezo Push Button WUFC-4000 Pneutronic ■ WMSII WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory (Pick Control)*/** □ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf) or if the Toilet is selected with an (ET4) overflow option) □ 3.5 GPF (13.2 Lpf)** RFVB Remote Flush Valve with Box *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) ■ 1.28 GPF HET (4.8 Lpf) ■ 1.6 GPF ULF (6.0 Lpf) □ 3.5 GPF (13.2 Lpf)*** **LIGATURE-RESISTANT DISCLAIMER REFVB Remote Electronic Flush Valve with Box* ☐ 1.28 GPF HET (4.8 Lpf) ■ 1.6 GPF ULF (6.0 Lpf) □ 3.5 GPF (13.2 Lpf)** No Flush Valve (Provided by Others)

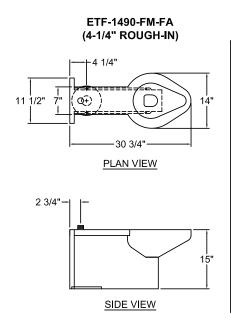
This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

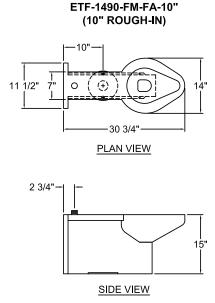
***For replacement fixtures only

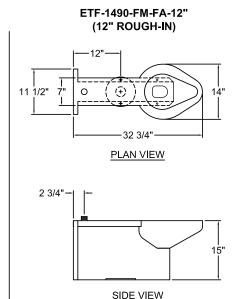
Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		. ,

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NFV







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ETF-1490-OW Stainless Steel Floor Outlet Off-Wall Mounted Siphon Jet Series Toilet





** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT



To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Floor Outlet, Off Wall Mounted, Siphon Jet Series Toilet with top spud, standard 15" seat height, 1.6 GPF, floor outlet waste connection, high polish seat, and toilet shipping cover

Use the following Willoughby Model Number: ETF-1490-OW-TS-1.6-TW4-HPS-TSC

Recommended Specifications

Stainless Steel, Floor Outlet, Off-Wall Mounted, Siphon Jet Series Toilet shall be: Willoughby Model No. **ETF-1490-OW** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be through the floor (anchoring hardware provided by others).

Unit requires no chase area for installation and maintenance.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.

WARNING: Cancer and Reproductive Harm
- www.P65Warnings.ca.gov



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1.) Base Model Number:

□ ETF-1490-OW Stainless Steel, Floor Outlet, Off-Wall Mounted, Siphon Jet Series Toilet

2.) Inlet Location:

☐ TS Top Spud

3.) Toilet Seat Height:

- ☐ 15" Seat Height (Standard)
- ☐ HC 18" Seat Height, Handicap-ADA Compliant

4.) Toilet Waste:

- ☐ GWC Gasketed Waste Connection (Standard)
- ☐ TW4 4" Cast Iron Closet Flange

5.) Other Options:

☐ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)

□ DC Decorator Color (Fixture exterior only - White)

☐ HPS High Polish Seat

☐ TSC Toilet Shipping Cover

☐ RTH1 Wall Mounted Recessed Tissue Holder

(Rear Mounted, Requires Accessible Chase)

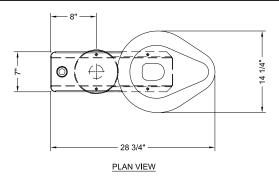
□ RTH2 Wall Mounted Recessed Tissue Holder

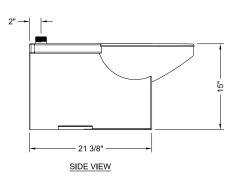
(Front Mounted, 4-1/2" Depth)

□ Other□ Other

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		

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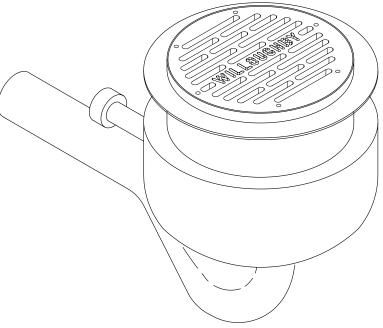
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FD-1400 Detox Toilet





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an FD-1400 detox with flange, 3.5 GPF (13.2 Lpf), and remote flush valve with wall box Use the following Willoughby Model Number:

FD-1400-WF-3.5-RFVB

Recommended Specifications

Detox Toilet shall be: Willoughby Model No. **FD-1400** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- 14" diameter round bowl with 2" top band
- Removable 7 GA. S/S top grate for access to bowl interior
- Integral crevice free flushing rim with positive afterfill
 (1" wide full perimeter flange is standard on FD-1400-WF
 fixture for padded cell installations)

Toilet shall be blowout type, requiring 35 PSI minimum flushing pressure. Trap shall be fully enclosed, maintain a minimum 3-1/2" seal and pass a 2-5/8" ball.

Note: For ULF 1.6 GPF, unit will pass a 2-1/8" ball.



1.) Base Model Number:

☐ FD-1400

2.) Flange

Less Flange ☐ LFL WF

3.) Flush Valve:

Hydraulic Flush Valve (Includes Actuator)

□ 3.5 GPF (13.2 Lpf) (Standard, 3" waste tube required)

■ 1.6 GPF ULF (6.0 Lpf)

Electronic Flush Valve w/ (PZPB) Ligature-resistant □ EFVP Piezo Push Button (Pick Control)*/*

□ 3.5 GPF (13.2 Lpf) (Standard, 3" waste tube required)

☐ 1.6 GPF ULF (6.0 Lpf)

Remote Flush Valve with Box □ RFVB

□ 3.5 GPF (13.2 Lpf) (Standard, 3" waste tube

required)

■ 1.6 GPF ULF (6.0 Lpf)

□ REFVB Remote Electronic Flush Valve with Box* ☐ 3.5 GPF (13.2 Lpf) (Standard, 3" waste tube

required)

1.6 GPF ULF (6.0 Lpf)

No Flush Valve (Provided by Others)

4.) Other Options:

Flush Valve Access Panel AP

RMPB Remote Mounted Flush Valve Push Button (Must be located within 10' of Flush Valve) HB-8156 Dual Temp. Single Outlet Hose Box TF24H Hard-wired Transformer, 110/24VAC TF24P Plug-in Transformer, 110/24VAC* LRDT Ligature-Resistant Detox Toilet Drain Grate**

Other

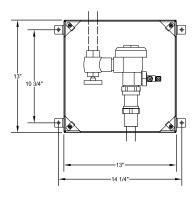
5.) Electronic Controls (Must Use Electronic Flush Valve):

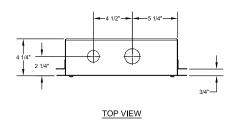
WUFC-4000 ☐ Pneutronic ☐ WMSII WUCC-3010 (Select WUCC-3010 Control if pairing a Detox Toilet with a Lavatory)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)

**LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.





FRONT VIEW COVER REMOVED

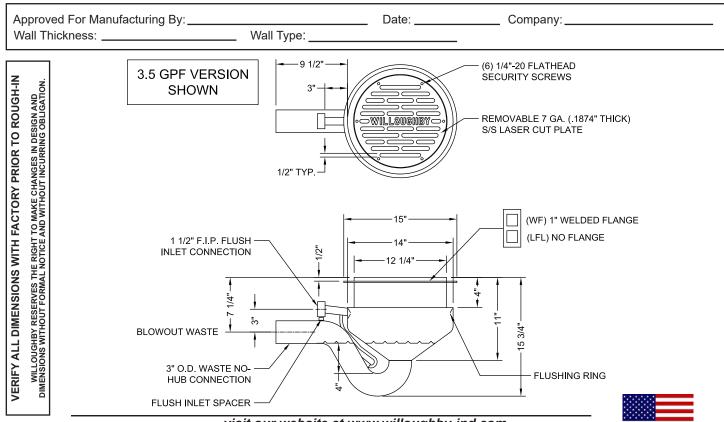
Recommended Specifications: RFVB

Remote flush box with integral flush valve shall be: Willoughby Model No. RFVB

The front cover shall be fabricated from 14 gauge, type 304 stainless steel with exposed surfaces polished to a #4 satin finish.

The cover shall be mounted to the wall box with security screws. The wall box and wall brackets shall be fabricated from 20 gauge galvanized steel.

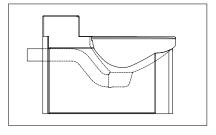
The integral flush valve shall be non-hold open type.



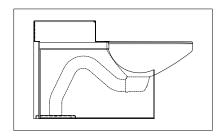
MADE IN THE U.S.A. © Rev. 9/2022

TOILET WASTE LOCATION

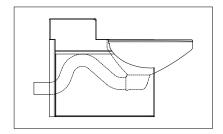




(ETW)- WALL OUTLET, BLOWOUT

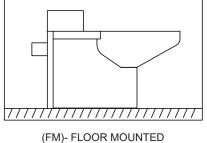


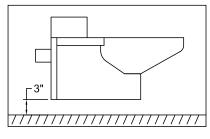
(ETF)- FLOOR OUTLET, SIPHON JET



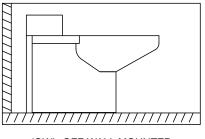
(ETWS)- WALL OUTLET, SIPHON JET

FIXTURE MOUNTING



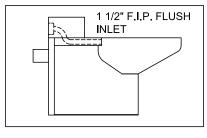


(OF)- OFF FLOOR MOUNTED

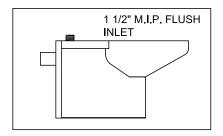


(OW)- OFF WALL MOUNTED

INLET LOCATION



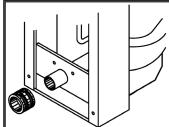
(BS)- BACK SPUD



(TS)- TOP SPUD

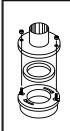
TOILET WASTE OPTIONS





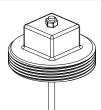
THE TOILET WASTE EXTENSION EXTENDS THE STAINLESS STEEL WASTE TUBE OUT THE BACK OF THE FIXTURE ALLOWING FOR A NOHUB TYPE CONNECTION SPECIAL NO-HUB COUPLING IS REQUIRED. SPECIFY CONNECTING PIPE SIZE AND TYPE.

(TWE)- TOILET WASTE EXTENSION



TOILET WASTE CONNECTION, SUPPLIED COMPLETE WITH Ø5-1/4" NEOPRENE GASKET, 5/16" ANCHOR STUDS AND 4" x 4" CLOSET FLANGE.

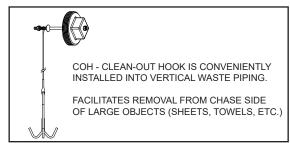
(TW4) 4" CAST IRON CLOSET FLANGE



THE PINNED CLEAN-OUT PLUG IS USED TO STOP LARGE OBJECTS FROM ENTERING THE BUILDING'S MAIN WASTE SYSTEM.

3" PVC OR 4" PVC CLEAN-OUT PLUGS ARE STANDARD. BRASS CLEAN-OUT PLUGS ARE AVAILABLE UPON REQUEST. SPECIFY "PCB" FOR BRASS.

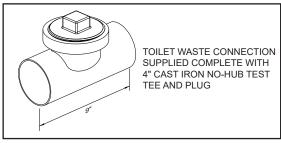
(PC__)- PINNED CLEAN-OUT PLUG



(COH4) CLEAN-OUT HOOK



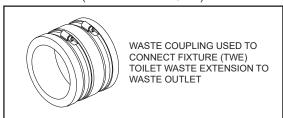
(TW3)- NO-HUB WASTE W/ 3" CLEAN-OUT



(TW5)- NO-HUB WASTE W/ 4" CLEAN-OUT



(GWC)- GASKETED WASTE CONNECTION (Stainless Steel SHOWN)



(TWC__)- TOILET WASTE COUPLING



OPTIONS





CONSTRUCTED OF 20 GA. GALVANIZED STEEL, WALL SLEEVES PROVIDE FIXTURE PLUMBING ROUGH-IN OPENINGS IN BLOCK/POURED CONCRETE WALLS, BECOMING A PERMANENT PART OF THE WALL

THE Ø1/2" STEEL RODS WELDED TO THE FRAME PROVIDE RIGIDITY AND HINDER ESCAPE INTO THE CHASE SHOULD THE FIXTURE BE REMOVED.

(SLEEVE BRACING IS REQUIRED DURING WALL CONSTRUCTION, BY OTHERS. MUST SPECIFY WALL THICKNESS AND TYPE WHEN ORDERING SLEEVE)

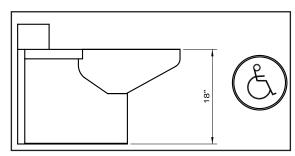
(WS)- WALL SLEEVE



PROVIDES WATER SUPPLY CONTROL FOR FLUSHING WATER CLOSETS. DELANY, SLOAN, AND ZURN FLUSH VALVES ARE COMPATIBLE WITH WILLOUGHBY UNITS.

FLUSH VALVES ARE AVAILABLE IN 3.5 GPF (13.2 Lpf), 1.6 GPF (6.0 Lpf), AND 1.28 GPF (4.8 Lpf). (SEE \$11-SUPPLEMENTAL INFORMATION)

(FV)- HYDRAULIC FLUSH VALVE (INCLUDES ACTUATOR)



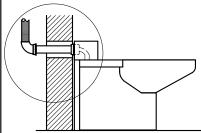
(HC)- 18" ADA-COMPLIANT HANDICAP SEAT HEIGHT



PROVIDES WATER SUPPLY CONTROL FOR FLUSHING WATER CLOSETS. DELANY, SLOAN, AND ZURN FLUSH VALVES ARE COMPATIBLE WITH WILLOUGHBY UNITS.

FLUSH VALVES ARE AVAILABLE IN 3.5 GPF (13.2 Lpf), 1.6 GPF (6.0 Lpf), AND 1.28 GPF (4.8 Lpf). (SEE \$11-SUPPLEMENTAL INFORMATION)

(EFVP)- ELECTRONIC FLUSH VALVE W/ (PZPB)
(FOR USE W/ WILLOUGHBY ELECTRONIC CONTROLS)

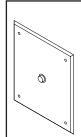


FLUSH VALVE TAILPIECES ARE FURNISHED STANDARD WITH SLIP JOINT FIXTURE CONNECTIONS.

STANDARD SLIP JOINT CONNECTIONS WILL WORK FOR WALL THICKNESSES UP TO 2", BEYOND WHICH THE CONNECTION BECOMES MORE DIFFICULT TO MAKE.

WILLOUGHBY RECOMMENDS THE USE OF A THROUGH-THE-WALL FLUSHING CONNECTION, ALLOWING FOR THE CONNECTION TO BE MADE IN THE CHASE.

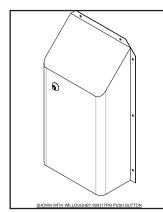
(FVT)- FLUSH VALVE THROUGH WALL CONNECTION



CONSTRUCTED OF 14 GA. TYPE 304 STAINLESS STEEL AND 20 GA. GALVANIZED STEEL (IN-WALL FRAME)

FOR USE WHEN ACCESS TO CHASE MOUNTED FLUSH VALVE IS DESIRED FROM THE FIXTURE SIDE OF THE WALL (SPECIFY WALL THICKNESS AND TYPE)

(AP)- FLUSH VALVE ACCESS PANEL

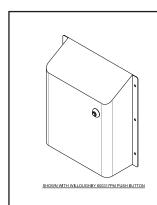


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CONSTRUCTED OF 14 GA. TYPE 304 STAINLESS STEEL W/ #4 SATIN FINISH AND LIGATURE-RESISTANT SLOPED TOP

FOR USE WHEN FLUSH VALVES ARE EXPOSED IN SECURE AREAS WHERE LIGA-TURE POINTS ARE A CONSID-ERATION. VANDAL RESISTANT AND COMPATIBLE WITH TOP SUPPLY TOILETS

(ASFVC)- LIGATURE-RESISTANT FLUSH VALVE COVER



CONSTRUCTED OF 14 GA. TYPE 304 STAINLESS STEEL W/ #4 SATIN FINISH AND LIGATURE-RESISTANT SLOPED TOP

FOR USE WHEN FLUSH
VALVES ARE EXPOSED IN
SECURE AREAS WHERE BOTH
ADA-COMPLIANCE & LIGATURE
POINTS ARE CONSIDERATIONS. VANDAL RESISTANT
AND COMPATIBLE WITH TOP
SUPPLY TOILETS

(ASFVCADA)- LIGATURE-RESISTANT ADA FLUSH VALVE COVER

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S2-29

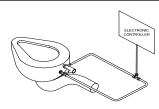
OPTIONS (CONTINUED)





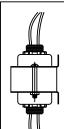
THE TOILET OVERFLOW PREVENTER IS RECOMMENDED FOR FACILITIES WITH HIGH VANDALISM. (T4) IS NORMALLY USED IN CONJUNCTION WITH A BACK SUPPLY TOILET OR COMBINATION UNIT WHERE AN ACCESSIBLE PIPE CHASE IS PROVIDED

(T4)- MANUAL RESET TOP FOUR OVERFLOW PREVENTER (REQUIRES (FV) HYDRAULIC FLUSH VALVE AND ACCESSIBLE CHASE)



THE ELECTRONIC
TOILET OVERFLOW
PREVENTER IS
RECOMMENDED FOR
FACILITIES WITH HIGH
VANDALISM AND WHERE
WILLOUGHBY ELECTRONIC CONTTROLS
ARE BEING USED

(ET4)-ELECTRICAL TOP FOUR OVERFLOW PRE-VENTER (REQUIRES ELECTRONIC FLUSH VALVE)



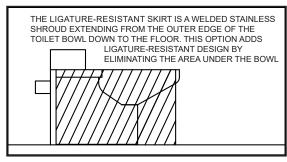
JACKSON CONTROL OR EQUIVALENT 24VAC, 40A TRANSFORMER.

(TF24H) HARDWIRE: FOOT MOUNT END COV-ERS, VERTICAL W/ 1/2" THREADED CONDUIT HUBS & LOCK NUTS ON BOTH EXITS

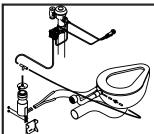
(TF24P) PLUG-IN: FOR 110VAC GFCI OUTLET

TRANSFORMER TO BE LABELED WITH "UL" AND "CSA" CERTIFICATION MARKS.

(TF24__)- TRANSFORMER, 110VAC TO 24VAC

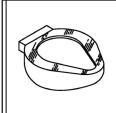


(SK)- LIGATURE-RESISTANT TOILET SKIRT



THE TOILET OVERFLOW PREVENTER IS RECOMMENDED FOR FACILITIES WITH HIGH VANDALISM. (T4A) IS NORMALLY USED IN CONJUNCTION WITH A BACK SUPPLY TOILET OR COMBINATION UNIT WHERE AN ACCESSIBLE PIPE CHASE IS PROVIDED

(T4A)- AUTO RESET TOP FOUR OVERFLOW PREVENTER (REQUIRES (FV) HYDRAULIC FLUSH VALVE AND ACCESSIBLE CHASE)



TOILET SEAT TOP IS POLISHED TO A #7 MIRROR FINISH.

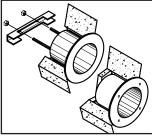
(HPS)- HIGH POLISH SEAT



ELONGATED PLASTIC SEAT IS OF SANITARY, OPEN FRONT DESIGN, NOT RECOMMENDED IN MAXIMUM SECURITY AREAS

(AVAILABLE IN WHITE)

(HS)- HINGED PLASTIC SEAT



CONSTRUCTED OF 14 GA. TYPE 304 STAINLESS STEEL

FOR USE WITH INDIVIDUAL WATER CLOSETS WHERE TISSUE HOLDER CANNOT BE MOUNTED IN FIXTURE CABINET

(RTH1)- RECESSED TISSUE HOLDER (REAR MOUNT) (RTH2)- RECESSED TISSUE HOLDER (FRONT MOUNT) (ASRTH1)- LIGATURE-RESISTANT RECESSED

TISSUE HOLDER (REAR MOUNT) (ASRTH2)- LIGATURE-RESISTANT RECESSED

TISSUE HOLDER (FRONT MOUNT)

(ASRTH3)- LIGATURE-RESISTANT STUD WALL RECESSED TISSUE HOLDER (FRONT MOUNT)

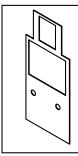
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OPTIONS (CONTINUED)

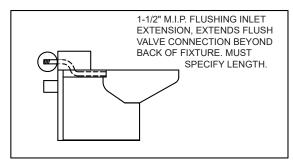


CONSTRUCTED OF 18 GAUGE GALVANIZED STEEL.

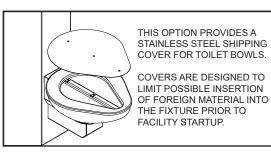
METAL WALL TEMPLATES PROVIDE FOR FIXTURE ROUGH-IN CUT-OUTS IN A STEEL WALL. THE TEMPLATE HAS INTEGRAL LAYOUT PATTERNS FOR CUTTING OR DRILLING WALL OPENINGS.

NOTE: TEMPLATE IS NOT MEANT TO BE INSTALLED BETWEEN FIXTURE AND WALL/FLOOR

(MT)- WALL TEMPLATE



(TFE)- Toilet Flush Extension (Specify if more than 1")



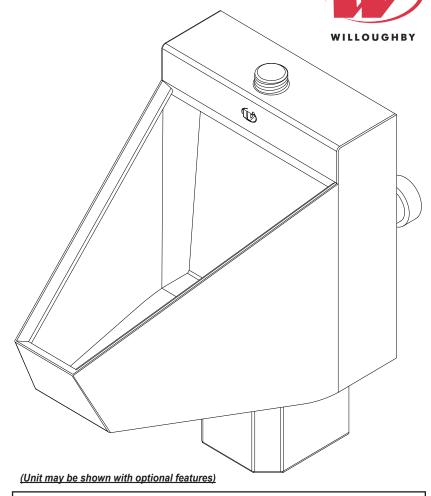
(TSC)- TOILET SHIPPING COVER



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UW-1412-BJ
Stainless Steel
Single Person
Rear Mounted
Blowout Flush
Straddle Urinal





To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Stainless Steel, Single Person, Rear Mounted, Blowout Flush Straddle Urinal with top spud, wall sleeve, and hydraulic flush valve

Use the following Willoughby Model Number:

UW-1412-BJ-TS-WS-FV

Recommended Specifications

Stainless Steel, Single Person, Rear Mounted, Blowout Flush Straddle Urinal shall be: Willoughby Model No. **UW-1412-BJ** (Select from model number and options list on next page)

Fixture is fabricated from 14 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Full perimeter 360° flushing rim
- Integral stainless steel P-trap

Urinal shall be blowout type which requires 25 PSI minimum flushing pressure. Trap shall be fully enclosed and maintain a 3" seal.

Anchoring shall be by a standard 4-point system: threaded rods, nuts and washers furnished for walls up to 8" thick.

Unit requires chase area for installation and maintenance.



WARNING: Cancer and Reproductive Harm

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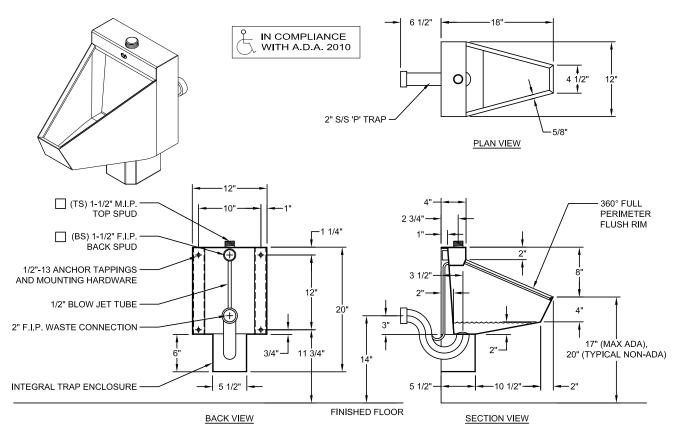
1.) Base Model Number: 5.) Electronic Controls* (Must Use Electronic Flush Valve): Stainless Steel, Single Person, Rear Mounted, Blowout ■ Pneutronic ☐ UW-1412-BJ ☐ WUFC-4000 □ WMSII Flush Straddle Urinal *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) 2.) Inlet Location: ☐ BS Back Spud **LIGATURE-RESISTANT DISCLAIMER □ TS Top Spud This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby 3.) Flush Valve: ☐ FV Industries are to be used in conjunction with, not as a replacement for, Hydraulic Flush Valve (Includes Actuator) ☐ 1.5 GPF (5.7 Lpf) ☐ 1.0 GPF Low Flow (3.8 Lpf) trained professionals. ☐ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*/** ☐ 1.5 GPF (5.7 Lpf) ☐ 1.0 GPF Low Flow (3.8 Lpf) No Flush Valve (Provided by Others) ■ NFV 4.) Options: ■ MT Wall Template ■ WS Wall Sleeve (Requires Accessible Chase) ■ ASUFVC Ligature-resistant Urinal Flush Valve Cover (Top Spud Only)** ☐ FVT Flush Valve Connection (Back Spud Only) □ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)

Approved For Manufacturing By: ___ Date: ___ Company: _ Wall Thickness: Wall Type:



□ Other Other

☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* ☐ TF24P Plug-in Transformer, 110VAC to 24VAC*

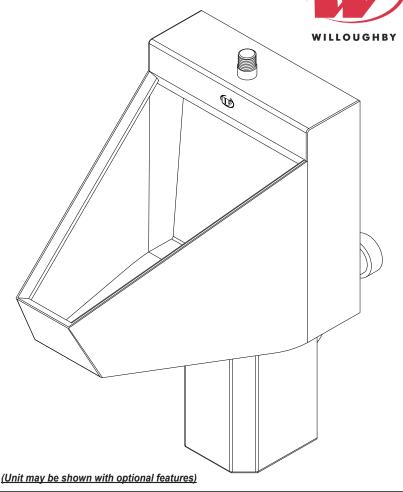


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UW-1412-WO Stainless Steel Single Person Rear Mounted Washout Flush Straddle Urinal





To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Stainless Steel, Single Person, Rear Mounted, Washout Flush Straddle Urinal with top spud, 1.0 GPF, wall sleeve, and hydraulic flush valve

Use the following Willoughby Model Number:
UW-1412-WO-TS-1.0-WS-FV

Recommended Specifications

Stainless Steel, Single Person, Rear Mounted, Washout Flush Straddle Urinal shall be: Willoughby Model No. **UW-1412-WO** (Select from model number and options list on next page)

Fixture is fabricated from 14 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

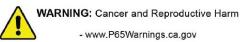
Standard equipment shall include:

- Full perimeter 360° flushing rim
- Beehive strainer
- Integral stainless steel P-trap

Urinal shall be washout type which requires 25 PSI minimum flushing pressure. Trap shall be fully enclosed and maintain a 3" seal.

Anchoring shall be by a standard 4-point system: threaded rods, nuts and washers furnished for walls up to 8" thick.

Unit requires chase area for installation and maintenance.



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1.) Base Model Number:

■ UW-1412-WO Stainless Steel, Single Person, Rear Mounted, Washout

Flush Straddle Urinal

2.) Inlet Location:

■ BS Back Spud □ TS Top Spud

3.) Flush Valve:

□ FV Hydraulic Flush Valve (Includes Actuator)

■ 1.0 GPF Low Flow (3.8 Lpf)

☐ 0.5 GPF High Efficiency (HEU) (1.9 Lpf)

☐ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo

Push Button (Pick Control)*/**

☐ 1.0 GPF Low Flow (3.8 Lpf)

☐ 0.5 GPF High Efficiency (HEU) (1.9 Lpf)

No Flush Valve (Provided by Others) ■ NFV

4.) Options:

Wall Template ■ MT

■ WS Wall Sleeve (Requires Accessible Chase)

■ ASUFVC Ligature-resistant Urinal Flush Valve Cover

(Top Spud Only)**

☐ FVT Flush Valve Connection (Back Spud Only) □ AP

Flush Valve Access Panel (Allows access to chase mounted flush valve

from fixture side)

☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* Plug-in Transformer, 110VAC to 24VAC* ☐ TF24P

Other

Other

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION

5.)	Electronic Controls*	(Must Use	Electronic Flush	Valve):

■ WUFC-4000

Pneutronic

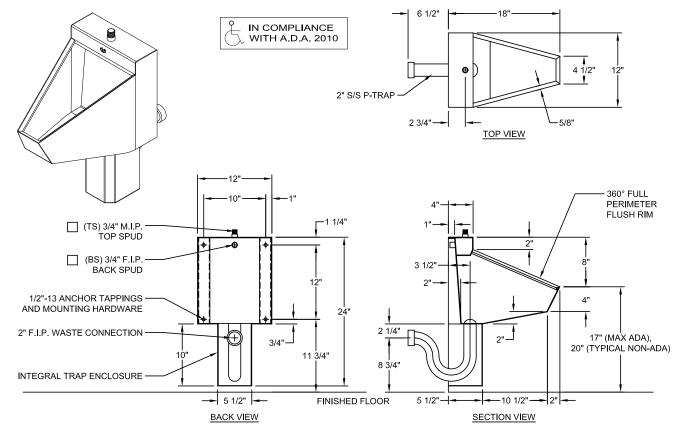
■ WMSII

*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)

**LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained

Approved For Manufacturing By: __ Date: ___ Company: _ Wall Thickness: Wall Type:

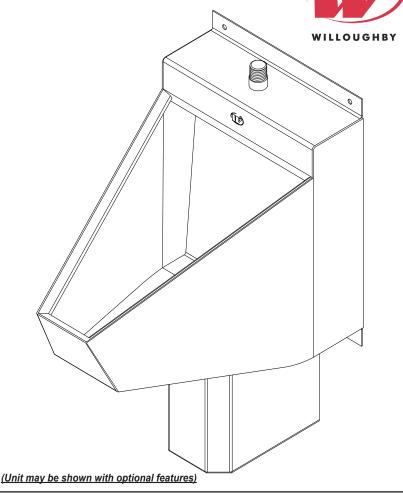


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UW-1412-WO-FA
Stainless Steel
Single Person
Front Mounted
Washout Flush
Straddle Urinal





To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Stainless Steel, Single Person, Front Mounted, Washout Flush Straddle Urinal with top spud, 1.0 GPF, wall template, and hydraulic flush valve

Recommended Specifications

Stainless Steel, Single Person, Front Mounted, Washout Flush Straddle Urinal shall be: Willoughby Model No. **UW-1412-WO-FA** (Select from model number and options list on next page)

Fixture is fabricated from 14 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Full perimeter 360° flushing rim
- Beehive strainer
- 1-1/2" F.I.P. slip-joint P-trap
- Removable P-trap access

Urinal shall be washout type which requires 25 PSI minimum flushing pressure. Trap shall be fully enclosed and maintain a 3" seal.

Anchoring shall be from the front with anchoring hardware by others.

Unit requires no chase area for installation and maintenance unless specified with any options requiring an accessible

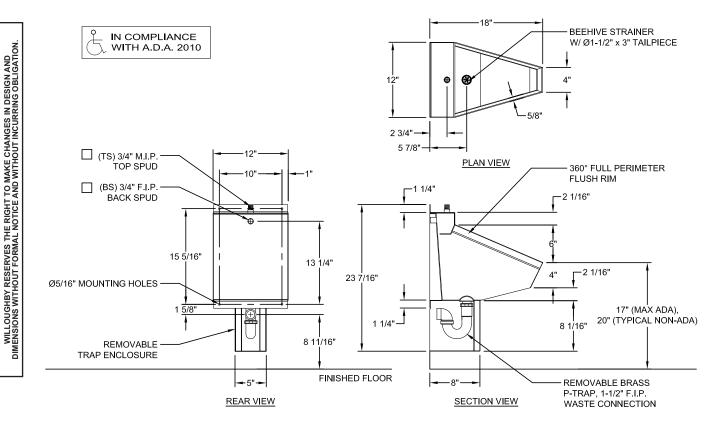


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1.) Base Model Number: 5.) Electronic Controls* (Must Use Electronic Flush Valve): ☐ UW-1412-WO-FA Stainless Steel, Single Person, Front Mounted, ☐ WUFC-4000 Pneutronic Washout Flush Straddle Urinal *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) 2.) Inlet Location: **LIGATURE-RESISTANT DISCLAIMER ■ BS Back Spud □ TS Top Spud This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not 3.) Flush Valve: eliminate all risks. Ligature-Resistant products by Willoughby □ FV Hydraulic Flush Valve (Includes Actuator) Industries are to be used in conjunction with, not as a replacement for, trained ■ 1.0 GPF Low Flow (3.8 Lpf) professionals. ☐ 0.5 GPF High Efficiency (HEU) (1.9 Lpf) ☐ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*/** ☐ 1.0 GPF Low Flow (3.8 Lpf) ☐ 0.5 GPF High Efficiency (HEU) (1.9 Lpf) No Flush Valve (Provided by Others) ■ NFV 4.) Options: Wall Template □ MT ■ ASUFVC Ligature-resistant Urinal Flush Valve Cover (Top Spud Only)* ☐ FVT Flush Valve Connection (Back Spud Only) Flush Valve Access Panel Front Mounted (Allows access to chase mounted flush valve from fixture side) ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____



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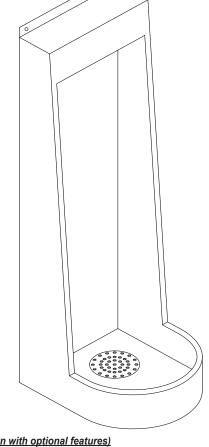
☐ TF24P Plug-in Transformer, 110VAC to 24VAC*

OtherOther

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UF-1438 Stainless Steel Single Person Floor Mounted **Stall Urinal**





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Stainless Steel, Single Person, Floor Mounted Stall Urinal with back spud, hydraulic flush valve, flush valve connection, and flush valve access panel

Use the following Willoughby Model Number:

UF-1438-BS-FV-FVT-AP

Recommended Specifications

Stainless Steel, Single Person, Floor Mounted Stall Urinal shall be: Willoughby Model No. UF-1438 (Select from model number and options list on next page)

Fixture is fabricated from 14 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Full perimeter 360° flushing rim
- Flat strainer

Urinal shall be washout type which requires 25 PSI minimum flushing pressure. Waste connection shall be 2" caulk type.

Anchoring shall be from the front with anchoring hardware by

Unit requires no chase area for installation and maintenance unless specified with (BS) Back Spud or any other options requiring an accessible chase.

WARNING: Cancer and Reproductive Harm

- www.P65Warnings.ca.gov

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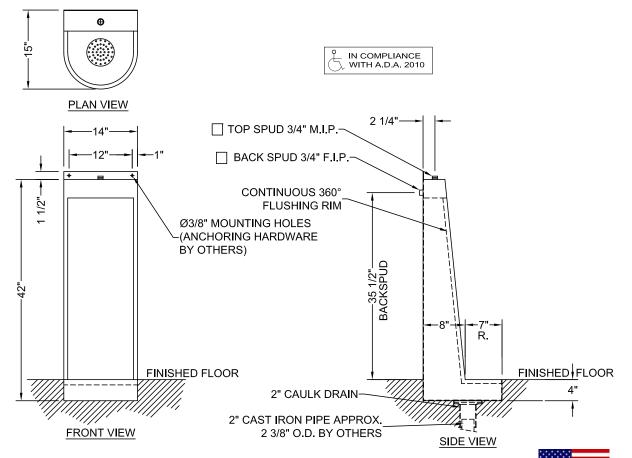
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5.) Electronic Controls* (Must Use Electronic Flush Valve): 1.) Base Model Number: ☐ UF-1438 Stainless Steel, Single Person, Floor Mounted Stall Urinal ☐ WUFC-4000 ☐ Pneutronic □ WMSII 2.) Inlet Location: *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) ☐ BS Back Spud □ TS Top Spud **LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does 3.) Flush Valve: Hydraulic Flush Valve (Includes Actuator) not eliminate all risks. Ligature-Resistant products by Willoughby □ FV ■ 1.0 GPF Low Flow (3.8 Lpf) Industries are to be used in conjunction with, not as a replacement for, ☐ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo trained professionals. Push Button (Pick Control)*/** ■ 1.0 GPF Low Flow (3.8 Lpf) □ NFV No Flush Valve (Provided by Others) 4.) Options: □ MT Wall Template ■ ASUFVC Ligature-resistant Urinal Flush Valve Cover (Top Spud Only)** Flush Valve Connection (Back Spud Only) ☐ FVT Flush Valve Access Panel (Allows access to chase mounted flush valve □ AP from fixture side) ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* ☐ TF24P Plug-in Transformer, 110VAC to 24VAC* ☐ Other Other

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____

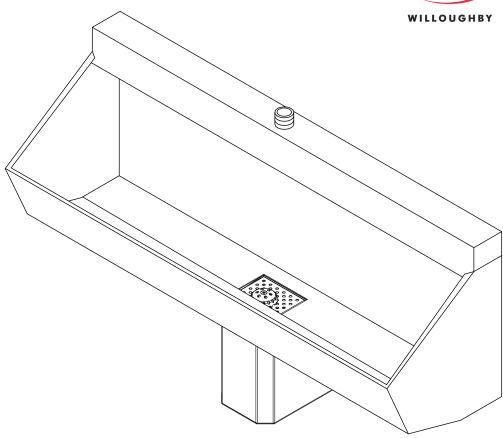
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UW-1800 Series **Stainless Steel Multi-Person** Rear Mounted **Washout Trough Urinal**



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Stainless Steel, Multi-Person, Rear Mounted, Washout Trough Urinal, 36" length with top spud, wall sleeve, and hydraulic flush valve

Use the following Willoughby Model Number:

UW-1836-TS-WS-FV

Recommended Specifications

Stainless Steel, Multi-Person, Rear Mounted, Washout Trough Urinal shall be: Willoughby Model No. UW-18 (Select from model number and options list on next page)

Fixture is fabricated from 14 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Full perimeter 360° flushing rim
- Beehive strainer
- Integral stainless steel P-trap

Urinal shall be washout type which requires 25 PSI minimum flushing pressure. Trap shall be fully enclosed (with a removable access cover) and maintain a 3" seal.

Anchoring shall be by a standard 8-point system: threaded rods, nuts and washers furnished for walls up to 8" thick.

Unit requires chase area for installation and maintenance.



WARNING: Cancer and Reproductive Harm

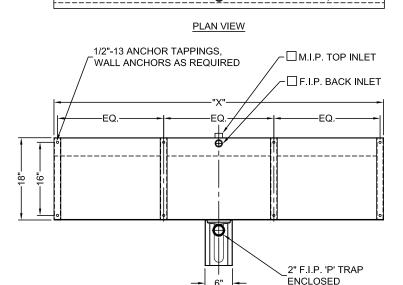
- www.P65Warnings.ca.gov



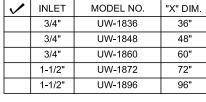
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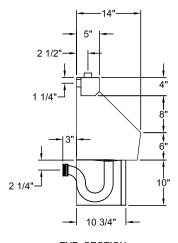
1.) Base Model Number: **LIGATURE-RESISTANT DISCLAIMER ☐ UW-1836 36" Stainless Steel, Multi-Person, Rear Mounted, Washout Trough Urinal (Wall Outlet) This product is designed to minimize ligature points. While every ☐ UW-1848 48" Stainless Steel, Multi-Person, ' effort has been made to reduce the possibility of ligature points, this ■ UW-1860 60" Stainless Steel, Multi-Person, ' product does not eliminate all risks. Ligature-Resistant products by ☐ UW-1872 72" Stainless Steel, Multi-Person, ' Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. □ UW-1896 96" Stainless Steel, Multi-Person, 2.) Inlet Location: ☐ BS Back Spud ☐ TS Top Spud 3.) Flush Valve: Hydraulic Flush Valve (Includes Actuator) □ FV ☐ 1.0 GPF Low Flow (3.8 Lpf) ■ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*/** ■ 1.0 GPF Low Flow (3.8 Lpf) ☐ NFV No Flush Valve (Provided by Others) 4.) Options: □ MT Wall Template □ ws Wall Sleeve (Requires Accessible Chase) ☐ ASUFVC Ligature-resistant Urinal Flush Valve Cover (Top Spud Only)** ☐ FVT Flush Valve Connection (Back Spud Only) □ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side) ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* ☐ TF24P Plug-in Transformer, 110VAC to 24VAC* □ Other 5.) Electronic Controls* (Must Use Electronic Flush Valve): ☐ Pneutronic *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) Approved For Manufacturing By: ___ Company: _ Wall Thickness: Wall Type: REMOVABLE 5" FLAT STRAINER WITH 2" BEEHIVE STRAINER 360° FULL PERIMETER PITCH TO DRAIN FLUSHING RIM INLET MODEL NO. "X" DIM. 3/4" UW-1836 36" 0 3/4" UW-1848 48"

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REAR ELEVATION





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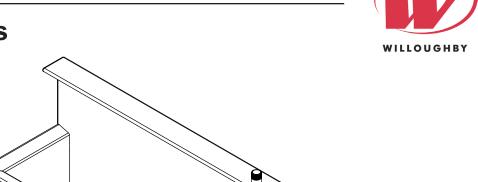


UW-1800-FA Series

Stainless Steel Multi-Person Front Mounted

Trough Urinal

Washout



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Stainless Steel, Multi-Person, Front Mounted, Washout Trough Urinal, 60" length with Top Spud

Use the following Willoughby Model Number:

UW-1860-FA-TS

Recommended Specifications

Stainless Steel, Multi-Person, Front Mounted, Washout Trough Urinal shall be: Willoughby Model No. **UW-18___-FA** (Select from model number and options list on next page)

Fixture is fabricated from 14 gauge, Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Beehive strainer with tailpiece
- Full length back wall flushing chamber with Ø1/4" holes, spaced 1" apart

Anchoring shall be from Z-clip and anchoring holes provided. Anchoring hardware by others.

Unit requires no chase area for installation and maintenance unless specified with any options requiring an accessible chase.



WARNING: Cancer and Reproductive Harm

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1.) Base Model Number:

- ☐ UW-1836-FA 36" Stainless Steel, Multi-Person, Front Mounted, Washout Trough Urinal (Wall Outlet)
- UW-1848-FA 48" Stainless Steel, Multi-Person, "
- 60" Stainless Steel, Multi-Person, " ☐ UW-1860-FA
- 72" Stainless Steel, Multi-Person, " ☐ UW-1872-FA
- ☐ UW-1896-FA 96" Stainless Steel, Multi-Person, "

2.) Inlet Location:

- ☐ TS Top Spud LS Left Spud
- ☐ RS Right Spud

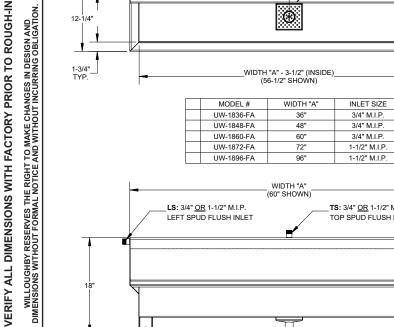
3.) Options:

- ☐ TE Trap Enclosure
- Other
- Other

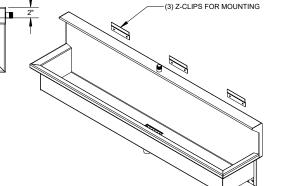


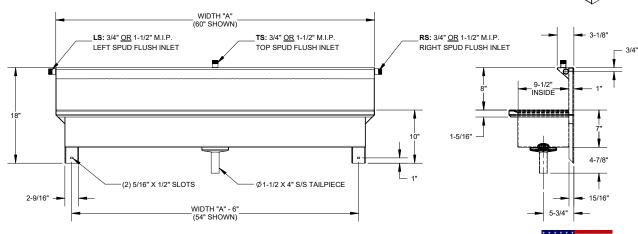
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REMOVABLE 5" FLAT STRAINER AND BEEHIVE STRAINER



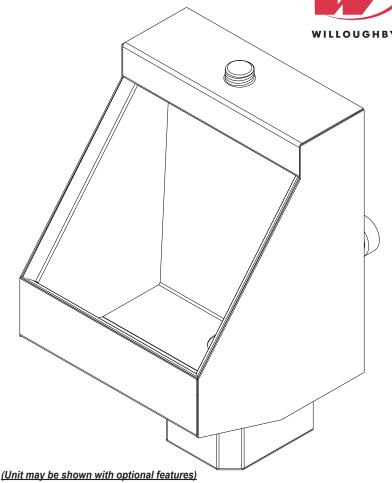
WIDTH "A" / 2 (30" SHOWN)





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UW-1814-BJ Stainless Steel **Single Person Rear Mounted Blowout Flush Trough Urinal**



To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Stainless Steel, Single Person, Rear Mounted, Blowout Flush Trough Urinal with top spud, hydraulic flush valve, and wall sleeve

Use the following Willoughby Model Number:
UW-1814-BJ-TS-FV-WS

Recommended Specifications

Stainless Steel, Single Person, Rear Mounted, Blowout Flush Trough Urinal shall be: Willoughby Model No. UW-1814-BJ (Select from model number and options list on next page)

Fixture is fabricated from 14 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Full perimeter 360° flushing rim
- Integral stainless steel P-trap

Urinal shall be blowout type which requires 25 PSI minimum flushing pressure. Trap shall be fully enclosed and maintain a 3" seal.

Anchoring shall be by a standard 4-point system: threaded rods, nuts and washers furnished for walls up to 8" thick.

Unit requires chase area for installation and maintenance.



WARNING: Cancer and Reproductive Harm

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1.) Base Model Number: ☐ UW-1814-BJ Stainless Steel, Single Person, Rear Mounted, Blowout Flush Trough Urinal 2.) Inlet Location: BS Back Spud □ TS Top Spud 3.) Flush Valve: ☐ FV Hydraulic Flush Valve (Includes Actuator) ☐ 1.5 GPF (5.7 Lpf) ☐ 1.0 GPF Low Flow (3.8 Lpf) Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push ■ EFVP Button (Pick Control)*/** ☐ 1.5 GPF (5.7 Lpf) ☐ 1.0 GPF Low Flow (3.8 Lpf) No Flush Valve (Provided by Others) ☐ NFV 4.) Options: ■ MT Wall Template ■ WS Wall Sleeve (Requires Accessible Chase) Ligature-resistant Urinal Flush Valve Cover ☐ ASUFVC (Top Spud Only)** Flush Valve Connection (Back Spud Only) □ FVT ☐ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)

Hard-wired Transformer, 110VAC to 24VAC*

Plug-in Transformer, 110VAC to 24VAC*

☐ TF24H ☐ TF24P

□ Other□ Other

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5.) Electronic Controls*	(Must Use	Electronic	Flush \	/alve):
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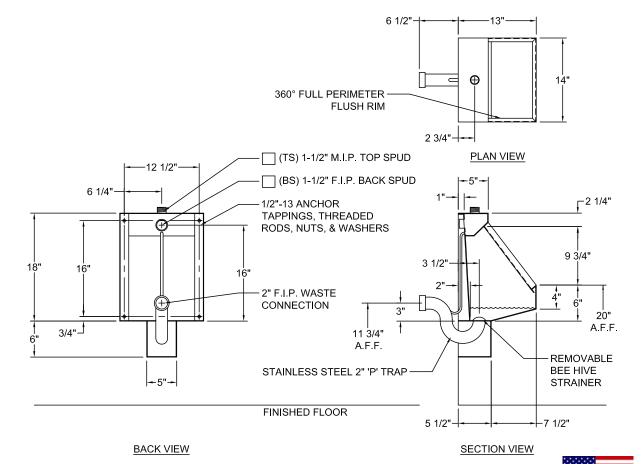
☐ WUFC-4000 ☐ Pneutronic ☐ WMSII

*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)

**LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

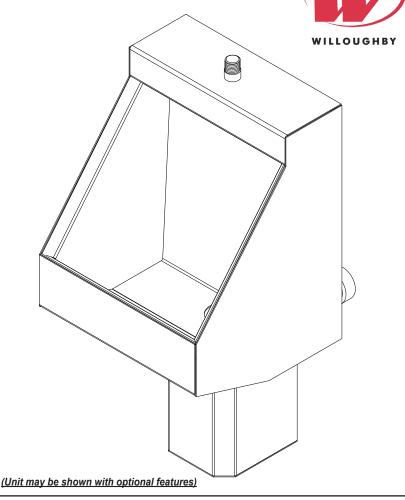
Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Type: _____



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UW-1814-WO Stainless Steel Single Person Rear Mounted Washout Flush Trough Urinal



To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Stainless Steel, Single Person, Rear Mounted, Washout Flush Trough Urinal with top spud, 1.0 GPF, wall sleeve, and hydraulic flush valve

Use the following Willoughby Model Number:
UW-1814-WO-TS-1.0-WS-FV

Recommended Specifications

Stainless Steel, Single Person, Rear Mounted, Washout Flush Trough Urinal shall be: Willoughby Model No. **UW-1814-WO** (Select from model number and options list on next page)

Fixture is fabricated from 14 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Full perimeter 360° flushing rim
- Beehive strainer
- Integral stainless steel P-trap

Urinal shall be washout type which requires 25 PSI minimum flushing pressure. Trap shall be fully enclosed and maintain a 3" seal. Urinal is manufactured to ASME A112.19.3/ CSA B45.4.

Anchoring shall be by a standard 4-point system: threaded rods, nuts and washers furnished for walls up to 8" thick.

Unit requires chase area for installation and maintenance.



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1.) Base Model Number:

☐ UW-1814-WO Stainless Steel, Single Person, Rear Mounted, Washout

Flush Trough Urinal

2.) Inlet Location:

■ BS Back Spud □ TS Top Spud

3.) Flush Valve:

□ FV Hydraulic Flush Valve (Includes Actuator)

■ 1.0 GPF Low Flow (3.8 Lpf)

☐ 0.5 GPF High Efficiency (HEU) (1.9 Lpf)

Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push ■ EFVP

Button (Pick Control)*/**

☐ 1.0 GPF Low Flow (3.8 Lpf)

☐ 0.5 GPF High Efficiency (HEU) (1.9 Lpf)

No Flush Valve (Provided by Others) ■ NFV

4.) Options:

■ MT Wall Template

■ WS Wall Sleeve (Requires Accessible Chase)

■ ASUFVC Ligature-resistant Urinal Flush Valve Cover

(Top Spud Only)**

□ FVT Flush Valve Connection (Back Spud Only) Flush Valve Access Panel (Allows access to chase mounted flush valve □ AP

from fixture side)

☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*

Plug-in Transformer, 110VAC to 24VAC* ☐ TF24P

Other

Other

5.)	Electronic	Controls*	(Must I	Use	Electronic	Flush	Valve):
٠.,	Licculonic	001111013	(INIUSE)	030	Licculonic	ı iusii	vaive).

■ WUFC-4000 Pneutronic ■ WMSII

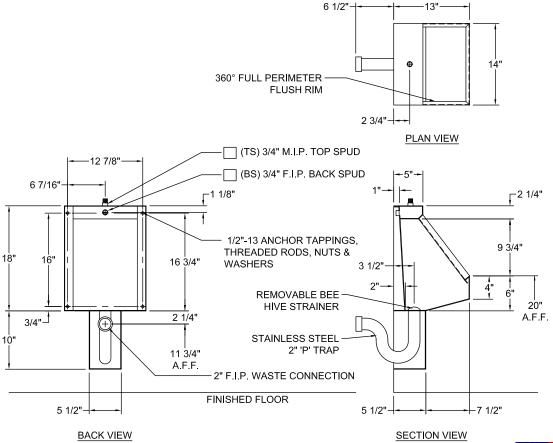
*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)

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Approved For Manufacturing By: ___ Company: _ Date: ___ Wall Thickness: Wall Type:

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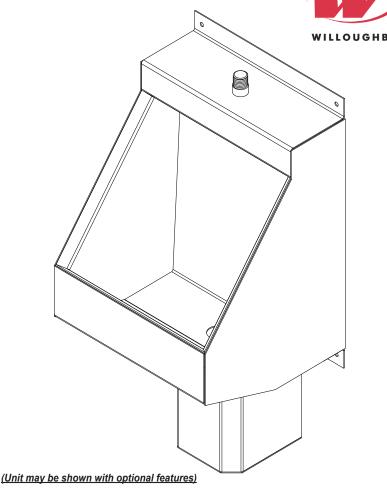


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UW-1814-WO-FA
Stainless Steel
Single Person
Front Mounted
Washout Flush
Trough Urinal



To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Stainless Steel, Single Person, Front Mounted, Washout Flush Trough Urinal with top spud, 1.0 GPF, wall template, and hydraulic flush valve

Use the following Willoughby Model Number:
UW-1814-WO-FA-TS-1.0-MT-FV

Recommended Specifications

Stainless Steel, Single Person, Front Mounted, Washout Flush Trough Urinal shall be: Willoughby Model No. **UW-1814-WO-FA**(Select from model number and options list on next page)

Fixture is fabricated from 14 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Full perimeter 360° flushing rim
- Beehive strainer
- 1-1/2" slip-joint P-trap
- Removable P-trap access

Urinal shall be washout type which requires 25 PSI minimum flushing pressure. Trap shall be fully enclosed and maintain a 3" seal.

Anchoring shall be from 'Z' clip and anchoring holes provided. Anchoring hardware by others.

Unit requires no chase area for installation and maintenance unless specified with any options requiring an accessible chase.

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MODEL NUMBER AND OPTIONS:						
Model Number:		5.) Electronic Con	trols* (Must Use Ele	ctronic Flush Valve):		
814-WO-FA	Stainless Steel, Single Person, Front Mounted,	☐ WUFC-4000	☐ Pneutronic	☐ WMSII		

I.) Dase I	nouel Nullibel.	
☐ UW-18	14-WO-FA	Stainless Steel, Single Person, Front Mounte Washout Flush Trough Urinal
2.) Inlet L	ocation:	
■ BS	Back Spud	
□ TS	Top Spud	
3.) Flush	Valve:	

**LIGATURE-RESISTANT DISCLAIMER

not eliminate all risks. Ligature-Resistant products by Willoughby ☐ FV Hydraulic Flush Valve (Includes Actuator) Industries are to be used in conjunction with, not as a replacement for, ■ 1.0 GPF Low Flow (3.8 Lpf) trained professionals. ☐ 0.5 GPF High Efficiency (HEU) (1.9 Lpf) Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push ☐ EFVP

☐ 1.0 GPF Low Flow (3.8 Lpf) ☐ 0.5 GPF High Efficiency (HEU) (1.9 Lpf) ■ NFV No Flush Valve (Provided by Others)

Button (Pick Control)*/**

4.) Options: ■ MT Wall Template ■ ASUFVC Ligature-resistant Urinal Flush Valve Cover (Top Spud Only)**

□ FVT Flush Valve Connection (Back Spud Only) Flush Valve Access Panel Front Mounted (Allows access to chase □ APFM

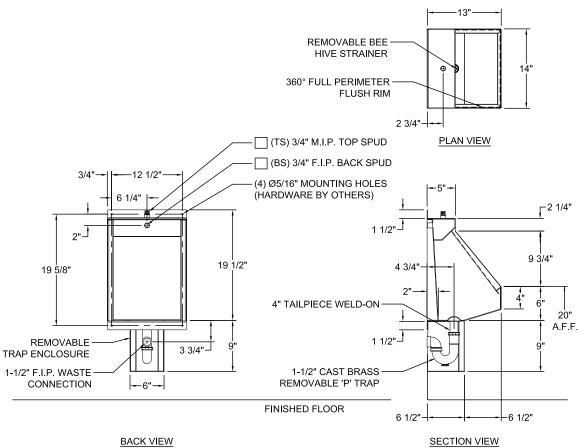
mounted flush valve from fixture side) ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* ☐ TF24P Plug-in Transformer, 110VAC to 24VAC* Other Other

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does

*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)

Approved For Manufacturing By: ___ Date: ___ Company: _ Wall Thickness: . Wall Type:

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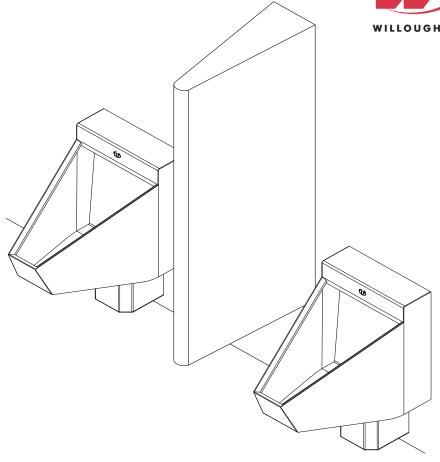


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URS-1836 Urinal Screen



(Unit may be shown with optional features, Urinals not included)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Urinal Screen

Use the following Willoughby Model Number:

URS-1836

Recommended Specifications

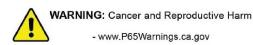
Urinal Screen shall be: Willoughby Model No. **URS-1836** (Select from model number and options list on next page)

Screen is fabricated from 14 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Screen interior shall be sound deadened with fire resistant material.

Anchoring shall be by standard 6 point system: threaded rods, nuts and washers furnished for walls up to 8" thick.

Screen requires chase area for installation.



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-		_			_
1	.)	Base	Model	Num	ber:

☐ URS-1836 Urinal Screen

2.) Options:

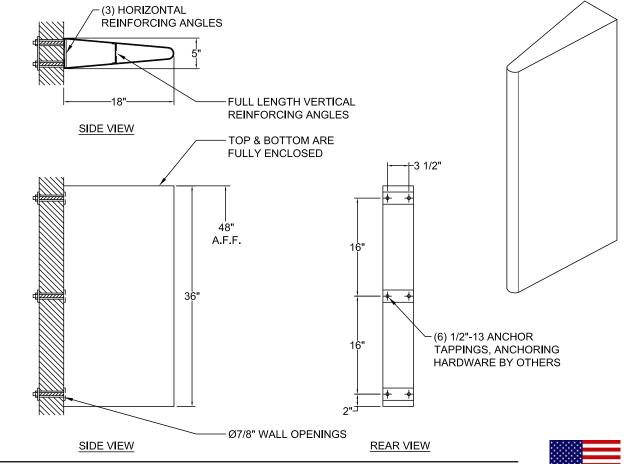
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.

☐ FA Front Mounted (Does not require chase)

Other __

☐ Other

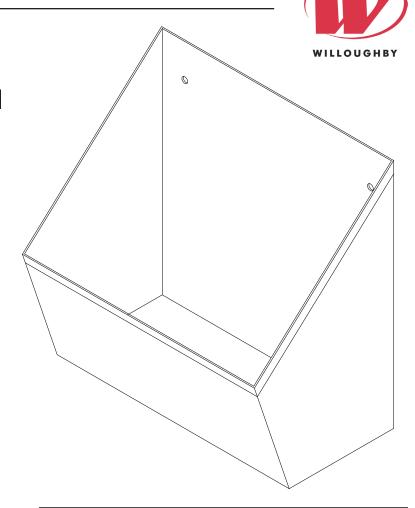
Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____



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WU-1010 Single Person Waterless Trough Urinal



To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Single Person Waterless Trough Urinal

Use the following Willoughby Model Number:

Recommended Specifications

Single Person Waterless Trough Urinal shall be: Willoughby Model No. **WU-1010** (Select from model number and options list on next page)

Fixture is fabricated from 16 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #3 satin finish.

Standard equipment shall include:

- Strainer with 1-1/2" M.P.T. pipe nipple

Anchoring shall be from the front, anchoring holes provided. Anchor hardware by others.

Unit requires no chase area for installation and maintenance.





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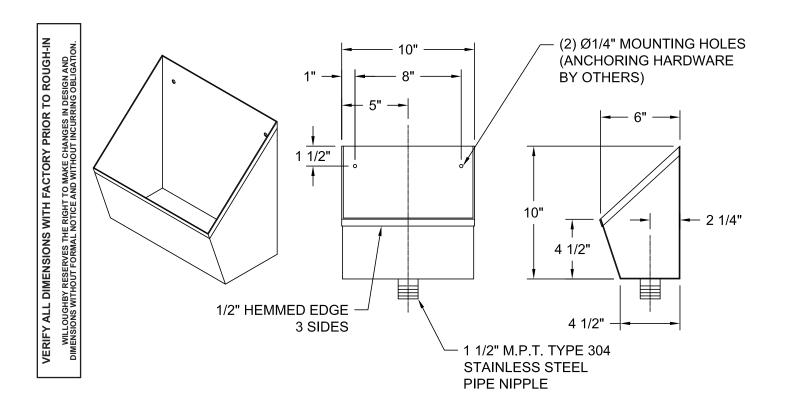
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1.) Base Model Number:

☐ WU-1010

Single Person Waterless Trough Urinal

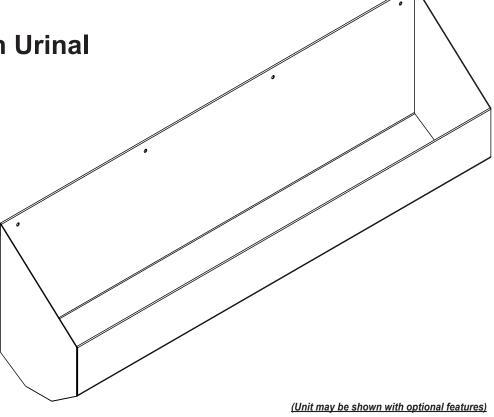
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Wall Thickness:	Wall Type:		. ,



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WWU-1500 Series Stainless Steel Multi-Person Waterless Trough Urinal



To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a 36" Stainless Steel, Multi-Person Waterless Trough Urinal

Use the following Willoughby Model Number: WWU-1536

Recommended Specifications

Stainless Steel, Multi-Person Waterless Trough Urinal shall be: Willoughby Model No. **WWU-15___**(Select from model number and options list on next page)

Fixture is fabricated from 14 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Beehive strainer with Ø1-1/2", 2" long tailpiece

Anchoring shall be from the front, anchoring holes provided. Anchor hardware by others.

Unit requires no chase area for installation and maintenance.



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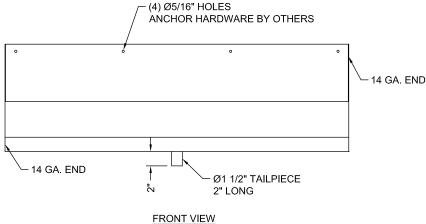
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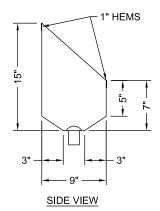
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1.) Base Model Number: ☐ WWU-1536 36" Stainless Steel, Multi-Person, Waterless Trough Urinal ■ WWU-1548 48" Stainless Steel, Multi-Person, Waterless " ☐ WWU-1560 60" Stainless Steel, Multi-Person, Waterless " ☐ WWU-1572 72" Stainless Steel, Multi-Person, Waterless " ☐ WWU-1596 96" Stainless Steel, Multi-Person, Waterless " 2.) Options: ☐ BKSPL36 36" x 36" 14 GA. Stainless Steel Backsplash ■ BKSPL48 36" x 48" 14 GA. " 36" x 60" 14 GA. " ☐ BKSPL60 36" x 72" 14 GA. " ■ BKSPL72 ☐ BKSPL96 36" x 96" 14 GA. " Other Other

Approved For Manufacturing By: ___ Date: ___ ____ Company: __ Wall Type: Wall Thickness: 48" REMOVABLE 2" BEE **HIVE STRAINER** VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION (S) 14 GA. WRAPPER PLAN VIEW





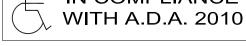
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UW-1317-HEU Stainless Steel **Single Person Rear Mounted ADA-Compliant** Contoured Washout Flush **High Efficiency Urinal**







Recommended Specifications

Stainless Steel, Single Person, Rear Mounted, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal shall be: Willoughby Model No. UW-1317-HEU (Select from model number and options list on next page)

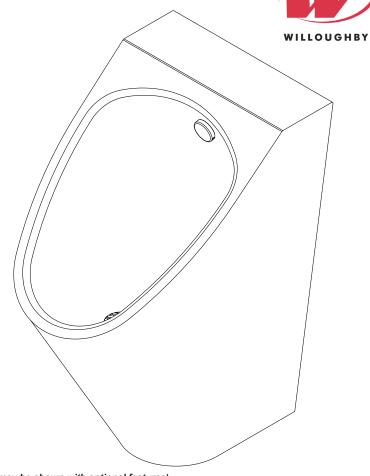
Fixture is fabricated from all 16 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless steel surfaces polished to a satin finish. Contoured interior and exterior surfaces for ease of cleaning.

Standard equipment shall include:

- Machined stainless steel flush nozzle
- Beehive strainer
- Removable P-trap with 1-1/2" F.I.P. waste connection
- 3/4" N.P.T. male inlet connection

High Efficiency Urinal shall be washout type requiring 1/8 to 1/2 GPF flush valve and 25 PSI minimum flushing pressure. Trap shall be fully enclosed and maintain a 3" seal.

Anchoring shall be by a standard 4-point system: threaded rods, nuts and washers furnished for walls up to 8" thick.



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Stainless Steel, Single Person, Rear Mounted, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal with back spud, 1/8 GPF, wall sleeve, and hydraulic flush valve

Use the following Willoughby Model Number UW-1317-HEU-BS-0.125-WS-FV

Unit requires chase area for installation and maintenance.

Urinals mounted at 17" rim height to comply with ANSI, ADA and UFAS accessibility requirements. Please consult local code as compliance is subject to the interpretation and requirements of the local code authority.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.



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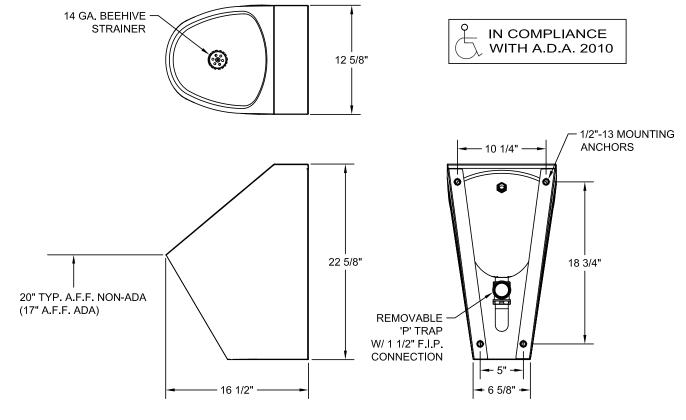
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1.) Base Model Number: 5.) Electronic Controls* (Must Use Electronic Flush Valve): ☐ UW-1317-HEU Stainless Steel, Single Person, Rear Mounted, ■ WUFC-4000 Pneutronic ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **LIGATURE-RESISTANT DISCLAIMER 2.) Inlet Location: ☐ BS Back Spud This product is designed to minimize ligature points. While every effort has □ TS Top Spud been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to 3.) Flush Valve: be used in conjunction with, not as a replacement for, trained professionals. Hydraulic Flush Valve (Includes Actuator) □ FV ☐ 0.5 GPF High Efficiency (HEU) (1.9 Lpf) ☐ 0.125 GPF High Efficiency (HEU) (0.4 Lpf) ☐ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*/** ☐ 0.5 GPF High Efficiency (HEU) (1.9 Lpf) ☐ 0.125 GPF High Efficiency (HEU) (0.4 Lpf) ■ NFV No Flush Valve (Provided by Others) 4.) Options: ■ MT Wall Template ■ WS Wall Sleeve (Requires Accessible Chase) ■ ASUFVC Ligature-resistant Urinal Flush Valve Cover (Top Spud Only)** Flush Valve Access Panel (Allows access to chase mounted flush valve □ AP from fixture side) ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* Plug-in Transformer, 110VAC to 24VAC* ☐ TF24P ☐ DC Decorator Color (Fixture exterior only - White) Other

Approved For Manufacturing By: ___ _____ Company: ___ Date: ___ Wall Thickness: Wall Type:



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Other

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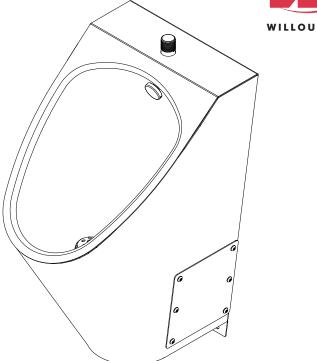
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UW-1317-HEU-FA
Stainless Steel
Single Person
Front Mounted
ADA-Compliant
Contoured
Washout Flush
High Efficiency Urinal







(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Stainless Steel, Single Person, Front Mounted, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal with top spud, 1/8 GPF, wall template, hydraulic flush valve, and ligature-resistant flush valve cover

Use the following Willoughby Model Number: UW-1317-HEU-FA-TS-0.125-MT-FV-ASFVC

Recommended Specifications

Stainless Steel, Single Person, Front Mounted, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal shall be: Willoughby Model No. **UW-1317-HEU-FA** (Select from model number and options list on next page)

Fixture is fabricated from all 16 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless steel surfaces polished to a satin finish. Contoured interior and exterior surfaces for ease of cleaning.

Standard equipment shall include:

- Machined stainless steel flush nozzle
- Beehive strainer
- Removable P-trap with 1-1/2" F.I.P. waste connection
- 3/4" N.P.T. male inlet connection
- Removable access cover

Unit requires no chase area for installation and maintenance unless specified with any options requiring an accessible chase

Urinals mounted at 17" rim height to comply with ANSI, ADA and UFAS accessibility requirements. Please consult local code as compliance is subject to the interpretation and requirements of the local code authority.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

High Efficiency Urinal shall be washout type requiring 1/8 to 1/2 GPF flush valve and 25 PSI minimum flushing pressure. Trap shall be fully enclosed and maintain a 3" seal.

Mounting hardware by others.



WARNING: Cancer and Reproductive Harm

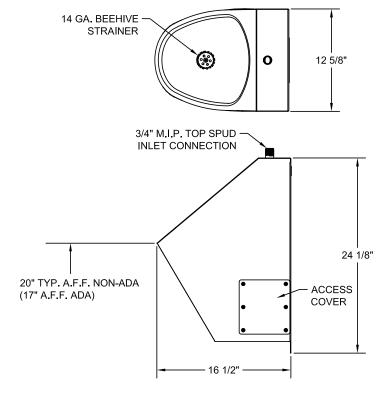
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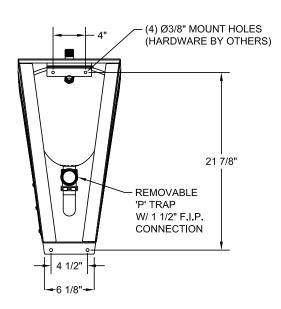
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1.) Base Model Number: 5.) Electronic Controls* (Must Use Electronic Flush Valve): ☐ UW-1317-HEU-FA Stainless Steel, Single Person, Front Mounted, ■ WUFC-4000 Pneutronic ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **LIGATURE-RESISTANT DISCLAIMER 2.) Inlet Location: ☐ BS Back Spud This product is designed to minimize ligature points. While every effort has □ TS Top Spud been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to 3.) Flush Valve: be used in conjunction with, not as a replacement for, trained professionals. Hydraulic Flush Valve (Includes Actuator) □ FV ☐ 0.5 GPF High Efficiency (HEU) (1.9 Lpf) ☐ 0.125 GPF High Efficiency (HEU) (0.4 Lpf) ☐ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*/** ☐ 0.5 GPF High Efficiency (HEU) (1.9 Lpf) ☐ 0.125 GPF High Efficiency (HEU) (0.4 Lpf) ■ NFV No Flush Valve (Provided by Others) 4.) Options: ■ MT Wall Template ■ ASUFVC Ligature-resistant Urinal Flush Valve Cover (Top Spud Only)* Flush Valve Access Panel Front Mounted (Allows access to chase □ APFM mounted flush valve from fixture side) ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* ☐ TF24P Plug-in Transformer, 110VAC to 24VAC* DC Decorator Color (Fixture exterior only - White) Other Other Approved For Manufacturing By: ___ Date: _____ Company: ____ Wall Thickness: Wall Type:









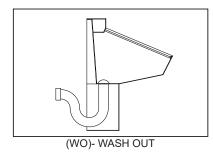
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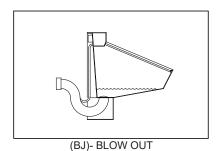


URINAL OPTIONS

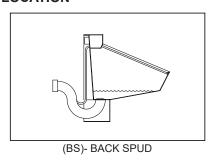


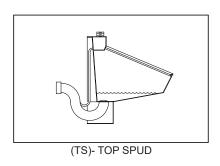
FLUSH TYPE



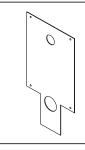


INLET LOCATION





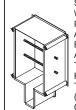
OTHER OPTIONS



CONSTRUCTED OF 18 GAUGE GALVANIZED STEEL.

METAL WALL TEMPLATES PROVIDE FOR FIXTURE ROUGH-IN CUT-OUTS IN A STEEL WALL. THE TEMPLATE HAS INTEGRAL LAYOUT PATTERNS FOR CUTTING OR DRILLING WALL

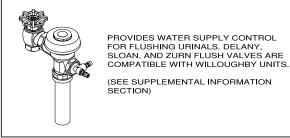
(MT)- WALL TEMPLATE



CONSTRUCTED OF 20 GAUGE GALVANIZED

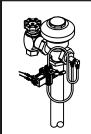
WALL SLEEVES PROVIDE FOR FIXTURE PLUMBING ROUGH-IN OPENINGS IN BLOCK AND POURED CONCRETE WALLS. THE SLEEVE BECOMES A PERMANENT PART OF THE WALL AND HAS 1/2" DIAMETER STEEL ROD(S) WELDED TO THE FRAME. THE STEEL RODS PROVIDE RIGIDITY AND HELP TO HINDER ESCAPE INTO THE CHASE SHOULD THE FIXTURE BE REMOVED. (SLEEVE BRACING BY OTHERS DURING WALL CONSTRUCTION REQUIRED) (MUST SPECIFY WALL THICKNESS AND TYPE)

(WS)- WALL SLEEVE



(SEE SUPPLEMENTAL INFORMATION

(FV)- FLUSH VALVE



PROVIDES WATER SUPPLY CONTROL FOR FLUSHING WATER CLOSETS. DELANY, SLOAN, AND ZURN FLUSH VALVES ARE COMPATIBLE WITH WILLOUGHBY UNITS.

3.5 GPF (13.2 Lpf), 1.6 GPF (6.0 Lpf), AND 1.28 GPF (4.8 Lpf).

(SEE S11-SUPPLEMENTAL INFORMATION)

(EFV)- ELECTRONIC FLUSH VALVE (FOR USE W/ WILLOUGHBY ELECTRONIC CONTROLS)

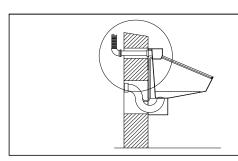
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URINAL OPTIONS (CONT.)



OTHER OPTIONS (CONT.)

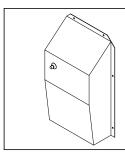


FLUSH VALVE TAILPIECES ARE FURNISHED STANDARD WITH SLIP JOINT FIXTURE CONNECTIONS.

STANDARD SLIP JOINT CONNECTIONS WILL WORK FOR WALL THICKNESSES UP TO 2", BEYOND WHICH THE CONNECTION BECOMES MORE DIFFICULT TO MAKE.

WILLOUGHBY RECOMMENDS THE USE OF A THROUGH-THE-WALL FLUSHING CONNECTION, ALLOWING FOR THE CONNECTION TO BE MADE IN THE CHASE.

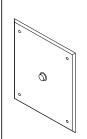
(FVT)- FLUSH VALVE THROUGH-WALL CONNECTION



CONSTRUCTED OF 14 GA. TYPE 304 STAINLESS STEEL W/ #4 SATIN FINISH AND LIGATURE-RESISTANT SLOPED TOP AND BOTTOM

FOR USE WHEN FLUSH VALVES ARE EXPOSED IN SECURE AREAS WHERE LIGATURE POINTS ARE A CONSIDERATION. VANDAL RESISTANT AND COMPATIBLE WITH TOP SUPPLY URINALS

(ASUFVC)- URINAL FLUSH VALVE COVER



CONSTRUCTED OF 14 GA. TYPE 304 STAINLESS STEEL AND 20 GA. GALVANIZED STEEL (IN-WALL FRAME)

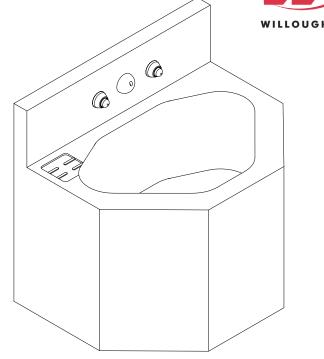
FOR USE WHEN ACCESS TO CHASE MOUNTED FLUSH VALVE IS DESIRED FROM THE FIXTURE SIDE OF THE WALL (SPECIFY WALL THICKNESS AND TYPE)

(AP)- FLUSH VALVE ACCESS PANEL





HS-1013-46-15 **Stainless Steel** 15" Wide **Rear Mounted** Lavatory



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a 15" Wide, Rear Mounted Lavatory with ligature-resistant bubbler, dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, elbow waste, and single towel hook Use the following Willoughby Model Number:
HS-1013-46-15-BPH-PML2-PBH-EB-TH1

Recommended Specifications

Stainless Steel, 15" Wide, Rear Mounted Lavatory shall be: Willoughby Model No. HS-1013-46-15 (Select from model number and options list on next page)

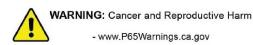
Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:

- Multi-sided bowl, 12-3/4" x 8-1/4" x 5" deep
- Stainless steel penal bubbler/filler
- Fast drain with air vent
- Elbow Waste (1-1/2" Plain End)
- Self-draining soap dish
- 0.5 GPM flow rate

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.





1.) Base Mo	del Number: -46-15 Stainless Steel, 15" Wide, Rear Mounted Lavatory				
2.) Bubbler Selection: BPH Ligature-resistant Bubbler/Filler (Standard)** BC Code Bubbler/Filler (w/ Non Ligature-Resistant Mouth Guard) FLH Ligature-resistant Lav. Filler**					
NV PSL1 PSL2 PML1 PML2 E1L1 E1L2 Valve Manif	Valve Selection: No Valve Single Temp. Pneumatic Non-metering Dual Temp. Pneumatic Non-metering Single Temp. Pneumatic Metering Dual Temp. Pneumatic Metering Single Temp. Electronic (pick control)* Dual Temp. Electronic (pick control)* Sold Options: CONTROL ONLY: MA3 MA4				
4.) Lavatory PBH PZPB	r Valve Actuation: Ligature-resistant Pneumatic Push Buttons** Ligature-resistant Piezo Electronic Push Buttons**				
WUCC-3	ic Controls* (Must Use Electronic Push Button): 010				
6.) Lavatory	Waste: Elbow Waste (1-1/2" Plain End) (Standard) Integral 'P'-Trap Lavatory Waste Extension (Specify if more than 3") Lavatory Overflow Slow Drain Thru-Wall Extension, 'P'-Trap Thru-Wall Extension and Clean-Out Coupling, 1-1/2" Tube to 1-1/2" Tube Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron				

-11 1/2"-

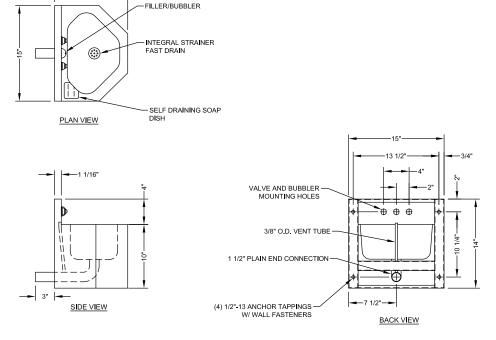
(.) Options	•	
□ MT	Wall Template	
□ TB1	Single Toothbrush Holde	er
	Right	☐ Left
☐ TB2	Dual Toothbrush Holder	
	Right	☐ Left
☐ TF24H	Hard-wired Transform	er, 110VAC to 24VAC*
☐ TF24P	Plug-in Transformer, 1	10VAC to 24VAC*
☐ TH1	Single Towel Hook	
	Right	☐ Left
TH2	Dual Towel Hook	
	Right	☐ Left
WS	Wall Sleeve (Requires A	ccessible Chase)
ISH	Integral Shelf	
□ VG	Ventilation Grille (Specif	y Location and Free Area)
Other:		
Other:		

**LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Type: _____

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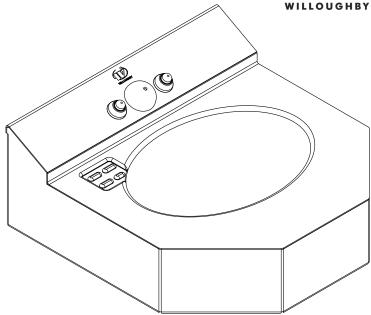
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^{*(}Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)



HS-1013-46-HC **Stainless Steel 18" Wide** Rear Mounted **Handicap-ADA Compliant** Lavatory





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an 18" Wide, Rear Mounted, Handicap-ADA Compliant Lavatory with ligature-resistant security penal filler/bubbler, dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, Elbow Waste (1-1/2" Plain End) , and single towel hook

Use the following Willoughby Model Number: HS-1013-46-HC-SBPH-PML2-PBH-EB-TH1

Recommended Specifications

Stainless Steel, 18" Wide, Rear Mounted, Handicap-ADA Compliant Lavatory shall be:

Willoughby Model No. HS-1013-46-HC

(Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:

- Oval-shaped bowl, 13" x 9-1/2" x 6" deep
- Stainless steel penal bubbler/filler
- Fast drain with air vent
- Elbow Waste (1-1/2" Plain End)
- Self-draining soap dish
- 0.5 GPM flow rate

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.





1.) Base Model Number: ☐ HS-1013-46-HC Stainless Steel, 18" Wide, Rear Mounted, Handicap-ADA Compliant Lavatory 2.) Bubbler Selection: SBPH Security Ligature-resistant Penal Bubbler/Filler (Standard)*** ☐ SBC Security Code Bubbler/Filler (w/ Non Ligature-Resistant Mouth Guard) (Not for ADA compliant drinking) 3.) Lavatory Valve Selection: ☐ NV No Valve ☐ PML1 Single Temp. Pneumatic Metering ☐ PML2 Dual Temp. Pneumatic Metering ■ E1L1 Single Temp. Electronic (pick control)* Dual Temp. Electronic (pick control)* ☐ E1L2 Valve Manifold Options: Pneumatic or Electronic Only: Other: ■ MA2 ■ MA3 ☐ MA4 4.) Lavatory Valve Actuation: □ PBH Ligature-resistant Pneumatic Push Buttons*** PZPB Ligature-resistant Piezo Electronic Push Buttons*** 5.) Electronic Controls* (Must Use Electronic Push Button): Pneutronic ■ WMSII (The WUCC-3010 Control can be used to pair a Lavatory with a Toilet) 6.) Lavatory Waste: □ EB Elbow Waste (1-1/2" Plain End) (Standard) Integral 'P'-Trap PT LWE Lavatory Waste Extension (Specify if more than 3") OV Lavatory Overflow ☐ SLOW Slow Drain Thru-Wall Extension, 'P'-Trap ■ LW1 LW2 Thru-Wall Extension and Clean-Out ☐ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron ☐ LWC2

7.) Options:	:
□ MT	Wall Template
☐ TB1	Single Toothbrush Holder
	Right Left
☐ TB2	Dual Toothbrush Holder
	☐ Right ☐ Left
☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC*
☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*
☐ TH1	Single Towel Hook
	☐ Right ☐ Left
TH2	Dual Towel Hook
	☐ Right ☐ Left
■ WS	Wall Sleeve (Requires Accessible Chase)
DC	Decorator Color (Fixture exterior only - White)
DFBH	Ligature-resistant Deck Mounted Drinking ADA Compliant Fountain Bubbler**/**
	**(Panel Mounted Push Button)
Other:	

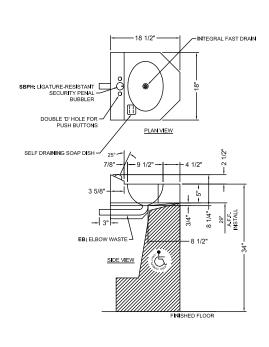
*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)

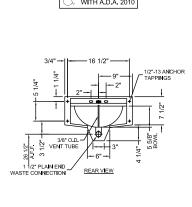
***LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		

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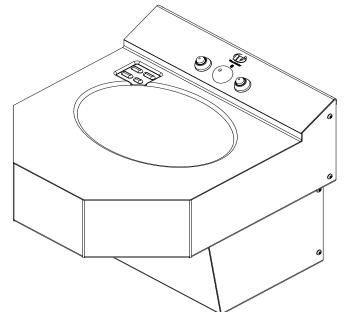
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HS-1013-46-HC-FA Stainless Steel **18" Wide** Front Mounted **Handicap-ADA Compliant** Lavatory





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an 18" Wide, Front Mounted, Handicap-ADA Compliant Lavatory with ligature-resistant security penal filler/bubbler and dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, and removable 'p' trap
Use the following Willoughby Model Number:

HS-1013-46-HC-FA-SBPH-PML2-PBH-RPT

Recommended Specifications

Stainless Steel, 18" Wide, Front Mounted, Handicap-ADA Compliant Lavatory shall be: Willoughby Model No. HS-1013-46-HC-FA

(Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:

- Oval-shaped bowl, 13" x 9-1/2" x 6" deep
- Stainless steel penal bubbler/filler
- Fast drain with air vent
- (1-1/2") slip joint, cast brass union 'p'-trap
- Removable bottom panel attached w/ vandal resistant screws
- Self-draining soap dish
- 0.5 GPM flow rate

Mounting:

Anchoring shall be from the front with mounting plate with anchoring holes. Unit does not require chase area for installation and maintenance; proper backing and anchoring hardware for lavatory mounting provided by others.



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

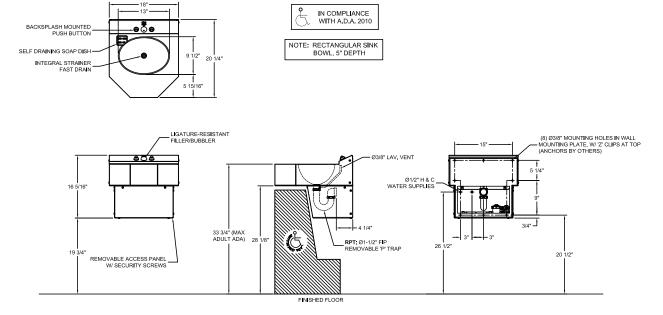


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1.) Base Model Number:		7.) Option	s:	
☐ HS-1013-46-HC-FA Stainless Steel, 18" Wide, Front Mounted,		□ MT	Wall Template	
Handicap-ADA Compliant Lavatory		Handicap-ADA Compliant Lavatory	□ TB1	Single Toothbrush Holder
				Right Left
2.) Bubble	r Selection:		☐ TB2	Dual Toothbrush Holder
SBPH	Security Ligature-res	istant Penal Bubbler/Filler (Standard)**		☐ Right ☐ Left
SBC	Security Code Bubbl	er/Filler (w/ Non Ligature-Resistant Mouth Guard)	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC*
	(Not for ADA complia	int drinking)	☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*
		<i>5,</i>	TH1	Single Towel Hook
3.) Lavator	y Valve Selection:		_	☐ Right ☐ Left
☐ NV	No Valve		☐ TH2	Dual Towel Hook
PML1	Single Temp. Pneuma	tic Metering	_	☐ Right ☐ Left
_	Dual Temp. Pneumation	•	□ DFBH	Ligature-resistant Deck Mounted Drinking ADA Compliant
☐ E1L1	Single Temp. Electron	•	_	Fountain Bubbler**/***
☐ E1L2	Dual Temp. Electronic	"		**(Panel Mounted Push Button)
_	•	,	☐ Other:	,
4.) Lavator	y Valve Actuation:		Other:	
☐ PBH	•	eumatic Push Buttons**	_	
☐ PZPB	Ligature-resistant Pie	zo Electronic Push Buttons**	*(Reg. 110	V power through ground fault interrupter (GFCI) receptacle / breaker)
_	•		` '	
5.) Electro	nic Controls* (Must U	se Electronic Push Button):	**LIGATU	IRE-RESISTANT DISCLAIMER
WUCC-	3010 🔲 Pneutr	ronic WMSII	This prod	uct is designed to minimize ligature points. While every effort has
(The WL	JCC-3010 Control can I	be used to pair a Lavatory with a Toilet)		de to reduce the possibility of ligature points, this product does not
,			eliminate	all risks. Ligature-Resistant products by Willoughby Industries are to
6.) Lavator	v Waste:			n conjunction with, not as a replacement for, trained professionals.
☐ RPT	Removable 'P'-Trap (S	Standard)		
□ ov	Lavatory Overflow	,		
_	•			
_				

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		, ,

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.



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HS-1013-96 **Stainless Steel 18" Wide Rear Mounted Rectangular Cabinet Lavatory**



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an 18" Wide, Rear Mounted, Rectangular Cabinet Lavatory with ligature-resistant bubbler, dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, integral 'p' trap, single towel hook, and wall sleeve Use the following Willoughby Model Number:

HS-1013-96-BPH-PML2-PBH-PT-TH1-WS

Recommended Specifications

Stainless Steel, 18" Wide, Rear Mounted, Rectangular Cabinet Lavatory shall be: Willoughby Model No. HS-1013-96 (Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:

- Oval-shaped bowl. 13" x 9-1/2" x 6" deep
- Stainless steel penal bubbler/filler
- Fast drain with air vent
- Elbow Waste (1-1/2" Plain End)
- Self-draining soap dish
- 0.5 GPM flow rate

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

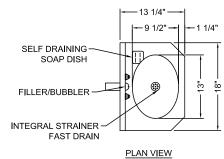


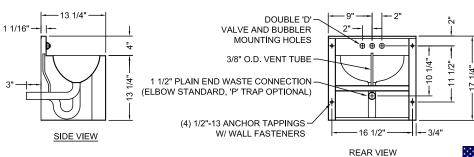


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1.) Base M	lodel Number:	7.) Options:	
HS-101		☐ MT	Wall Template Single Toothbrush Holder
	,	_	☐ Right ☐ Left
2.) Bubble	r Selection:	☐ TB2	Dual Toothbrush Holder
BPH	Ligature-resistant Bubbler/Filler (Standard)**		☐ Right ☐ Left
□ BC	Code Bubbler/Filler (w/ Non Ligature-Resistant Mouth Guard)	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC*
☐ FLH	Ligature-resistant Lav. Filler**	☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*
0)	. Well a October .	_	Single Towel Hook
NV	ry Valve Selection: No Valve		☐ Right ☐ Left Dual Towel Hook
☐ PSL1	Single Temp. Pneumatic Non-metering	<u> </u>	☐ Right ☐ Left
☐ PSL2	Dual Temp. Pneumatic Non-metering	☐ WS	Wall Sleeve (Requires Accessible Chase)
PML1	Single Temp. Pneumatic Metering		Integral Shelf
PML2	Dual Temp. Pneumatic Metering	☐ VG	Ventilation Grille (Specify Location and Free Area)
E1L1	Single Temp. Electronic (pick control)*	Other:	
E1L2	Dual Temp. Electronic (pick control)*	Other:	
	ifold Options:		
	ic or Electronic Only:	*(Req. 110V	power through ground fault interrupter (GFCI) receptacle / breaker)
☐ MA2	MA3 MA4	**LICATUR	E DECICTANT DICCI AIMED
4 \ Lavata	ry Valve Actuation:		E-RESISTANT DISCLAIMER t is designed to minimize ligature points. While every effort has been
□ PBH	Ligature-resistant Pneumatic Push Buttons**		luce the possibility of ligature points, this product does not eliminate all
☐ PZPB	Ligature-resistant Piezo Electronic Push Buttons**		ire-Resistant products by Willoughby Industries are to be used in
_	3	•	with, not as a replacement for, trained professionals.
5.) Electro	nic Controls* (Must Use Electronic Push Button):	,	, , , ,
■ WUCC-			
(The WI	JCC-3010 Control can be used to pair a Lavatory with a Toilet)		
C)	- Marka		
6.) Lavato	ry waste: Elbow Waste (1-1/2" Plain End) (Standard)		
☐ PT	Integral 'P'-Trap		
LWE	Lavatory Waste Extension (Specify if more than 3")		
□ ov	Lavatory Overflow		
SLOW	Slow Drain		
LW1	Thru-Wall Extension, 'P'-Trap		
LW2	Thru-Wall Extension and Clean-Out		
LWC1	Coupling, 1-1/2" Tube to 1-1/2" Tube		
LWC2	Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron		
Appro	ved For Manufacturing By:		Company:
Wall T	hickness: Wall Type:		
	I 13 1/4" 		
	- I		
_	-9 1/2" -1 1/4"		
= ×	SELF DRAINING		
호 ^맞	SOAP DISH		
\(\frac{1}{2}\)			
O ROUGH-IN FESIGN AND G OBLIGATION.	EILLER/BUBBLER		
	FILLER/BUBBLER		



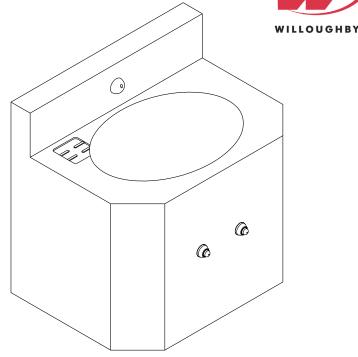




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HS-1013-96-FA **Stainless Steel** 18" Wide **Front Mounted Rectangular Cabinet** Lavatory



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an 18" Wide, Front Mounted, Rectangular Cabinet Lavatory with ligature-resistant bubbler, dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, and removable 'p'-trap Use the following Willoughby Model Number:

HS-1013-96-FA-BPH-PML2-PBH-RPT

Recommended Specifications

Stainless Steel, 18" Wide, Front Mounted, Rectangular Cabinet Lavatory shall be: Willoughby Model No. HS-1013-96-FA (Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:

- Oval-shaped bowl, 13" x 9-1/2" x 6" deep
- Stainless steel penal bubbler/filler
- Fast drain with air vent
- (1-1/2") slip joint, cast brass 'p'-trap
- Removable bottom panel attached w/ vandal resistant screws
- Self-draining soap dish
- 0.5 GPM flow rate

Anchoring shall be from the front with 'z'-clip and anchoring holes provided. Anchoring hardware by others. Unit requires no chase area for installation and maintenance.



WARNING: Cancer and Reproductive Harm

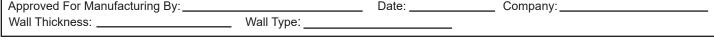
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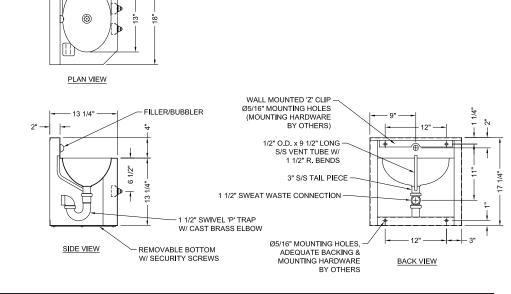
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7.) Options: 1.) Base Model Number: ☐ MT Wall Template ☐ HS-1013-96-FA Stainless Steel, 18" Wide, Front Mounted, Rectangular Cabinet Lavatory □ TB1 Single Toothbrush Holder Right 2.) Bubbler Selection: **Dual Toothbrush Holder** ☐ TB2 ☐ BPH Ligature-resistant Bubbler/Filler (Standard)** □ Right □ Left Code Bubbler/Filler (w/ Non Ligature-Resistant Mouth Guard) ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* ☐ BC Ligature-resistant Lav. Filler** Plug-in Transformer, 110VAC to 24VAC* ☐ FLH ☐ TF24P ☐ TH1 Single Towel Hook 3.) Lavatory Valve Selection: Left □ Right No Valve ☐ TH2 **Dual Towel Hook** PSL1 Single Temp. Pneumatic Non-metering □ Right Left ☐ PSL2 Dual Temp. Pneumatic Non-metering ☐ ISH Integral Shelf ☐ PML1 Single Temp. Pneumatic Metering Other: ☐ PML2 Dual Temp. Pneumatic Metering Other: ■ E1L1 Single Temp. Electronic (pick control)* ☐ E1L2 Dual Temp. Electronic (pick control)* *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **LIGATURE-RESISTANT DISCLAIMER 4.) Lavatory Valve Actuation: This product is designed to minimize ligature points. While every effort has been Ligature-resistant Pneumatic Push Buttons** made to reduce the possibility of ligature points, this product does not eliminate all ☐ PZPB Ligature-resistant Piezo Electronic Push Buttons** risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. 5.) Electronic Controls* (Must Use Electronic Push Button): ☐ WUCC-3010 Pneutronic ☐ WMSII (The WUCC-3010 Control can be used to pair a Lavatory with a Toilet) 6.) Lavatory Waste: RPT Removable 'P'-Trap (Standard) ☐ OV Lavatory Overflow ☐ SLOW Slow Drain Approved For Manufacturing By: _ Date: __ Company: _ Wall Thickness: _ Wall Type:



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9 1/2"

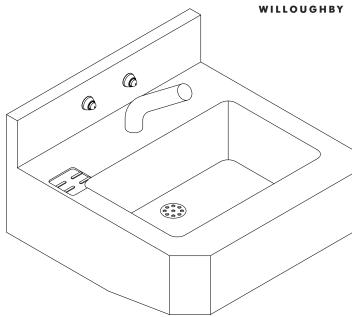


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HS-1014-96-HC Stainless Steel 18" Wide Rear Mounted **Handicap-ADA Compliant Rectangular Bowl Lavatory**





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an 18" Wide, Rear Mounted, Handicap-ADA Compliant, Rectangular Bowl Lavatory with dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, deck mounted spout, standard Elbow Waste (1-1/2" Plain End), and wall sleeve

Use the following Willoughby Model Number: HS-1014-96-HC-PML2-PBH-DMS-EB-WS

Recommended Specifications

Stainless Steel, 18" Wide, Rear Mounted, Handicap-ADA Compliant, Rectangular Bowl Lavatory shall be: Willoughby Model No. HS-1014-96-HC (Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:

- Rectangular-shaped bowl, 14-1/2" x 9-1/2" x 4-3/8" deep
- Fast drain with air vent
- Elbow Waste (1-1/2" Plain End)
- Self-draining soap dish
- 0.5 GPM flow rate

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

Note: Only deck mounted Willoughby lavatory spouts and filler/bubblers are available with this lavatory model.

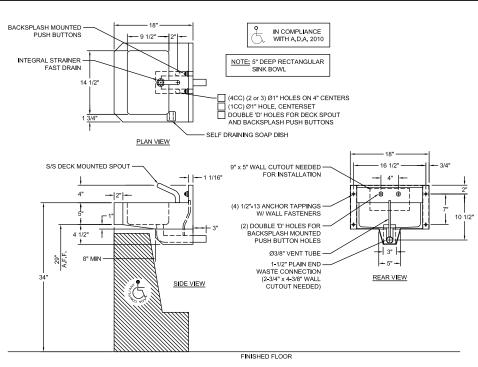




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1.) Base Model Number:	7.) Lavatory Waste:
HS-1014-96-HC Stainless Steel, 18" Wide, Rear Mounted, Handicap-ADA	☐ EB Elbow Waste (1-1/2" Plain End) (Standard)
Compliant, Rectangular Bowl Lavatory	☐ PT Integral 'P'-Trap
	☐ LWE Lavatory Waste Extension (Specify if more than 3")
.) Spout/Bubbler Selection:	OV Lavatory Overflow
DMS Deck Mounted Spout	☐ SLOW Slow Drain
☐ DMBH Ligature-resistant Deck Mounted Bubbler** (Not for ADA compliant drinking)	☐ LW1 Thru-Wall Extension, 'P'-Trap
	☐ LW2 Thru-Wall Extension and Clean-Out
3.) Lavatory Valve Selection:	☐ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
NV No Valve (Select Hole Punching if needed)	☐ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron
PML1 Single Temp. Pneumatic Metering	
PML2 Dual Temp. Pneumatic Metering	8.) Options:
E1L1 Single Temp. Electronic (pick control)*	☐ MT Wall Template
E1L2 Dual Temp. Electronic (pick control)*	☐ TB1 Single Toothbrush Holder
/alve Manifold Options:	Right Left
Pneumatic or Electronic Only:	☐ TB2 Dual Toothbrush Holder
□ MA2 □ MA3 □ MA4	Right Left
LIMIL LIMING LIMING	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*
I.) Lavatory Valve Actuation:	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
PBH Ligature-resistant Pneumatic Push Buttons**	☐ TH1 Single Towel Hook
PZPB Ligature-resistant Piezo Electronic Push Buttons**	☐ Right ☐ Left
	TH2 Dual Towel Hook
5.) Electronic Controls* (Must Use Electronic Push Button):	Right Left
☐ WUCC-3010 ☐ Pneutronic ☐ WMSII	☐ DC Decorator Color (Fixture exterior only - White)
(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)	☐ WS Wall Sleeve (Requires Accessible Chase)
	☐ ISH Integral Shelf
S.) Hole Punching:	☐ VG Ventilation Grille (Specify Location and Free Area)
4°C enterset, Ø1-1/4" Holes (Specify 2 or 3 holes:)	□ DFBH Ligature-resistant Deck Mounted Drinking ADA Compliant Fountian Bubbler**/**
3 8CC 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:)	***(Panel Mounted Push Button)
1CC Center Shank, (1) Ø1-1/4" Hole	☐ Other:
SP Special Punching (Specify hole punching dim.)	☐ Other:
SP:	
	*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)
	**LIGATURE-RESISTANT DISCLAIMER
	This product is designed to minimize ligature points. While every effort has been
	made to reduce the possibility of ligature points, this product does not eliminate all
	risks. Ligature-Resistant products by Willoughby Industries are to be used in
	conjunction with, not as a replacement for, trained professionals.
Approved For Manufacturing By:	Date: Company:
Wall Thickness: Wall Type:	
BACKSPLASH MOUNTED — 18" —————————————————————————————————	
PUSH BUTTONS L- 9 1/2" 12" L-	IN COMPLIANCE WITH A.D.A. 2010
INTEGRAL STRAINER FAST DRAIN	NOTE: 5" DEEP RECTANGULAR
9 FAST DRAIN	NOTE: 5" DEEP RECTANGULAR SINK BOWL

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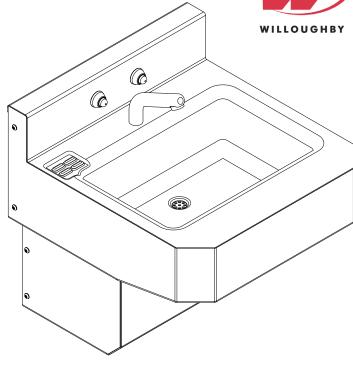


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HS-1014-96-HC-FA Stainless Steel 18" Wide **Front Mounted Handicap-ADA Compliant Rectangular Bowl** Lavatory



(Unit may be shown with optional features)

IN COMPLIANCE WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an 18" Wide, Front Mounted, Handicap-ADA Compliant, Rectangular Bowl Lavatory with dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, deck mounted spout, and standard removable 'p'-trap

Use the following Willoughby Model Number: HS-1014-96-HC-FA-PML2-PBH-DMS-RPT

Recommended Specifications

Stainless Steel, 18" Wide, Front Mounted, Handicap-ADA Compliant, Rectangular Bowl Lavatory shall be: Willoughby Model No. HS-1014-96-HC-FA (Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:

- Rectangular-shaped bowl, 14-1/2" x 9-1/2" x 4-3/8" deep
- Fast drain with air vent
- (1-1/2") slip joint, cast brass union 'p' trap
- Removable bottom panel attached with vandal resistant screws
- Self-draining soap dish
- 0.5 GPM flow rate

Mounting:

Anchoring shall be from the front with mounting plate with anchoring holes. Unit does not require chase area for installation and maintenance; proper backing and anchoring hardware for lavatory mounting provided by others.

Note: Only deck mounted Willoughby lavatory spouts and filler/bubblers are available with this lavatory model.





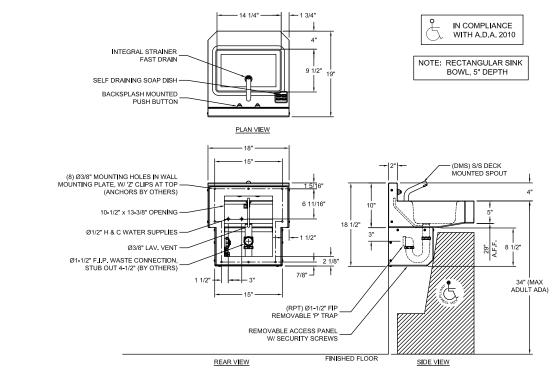
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1.) Base Model Number:		7.) Lavato	ory Waste:	
☐ HS-1014-96-HC-FA Stainless Steel, 18" Wide, Front Mounted,		Stainless Steel, 18" Wide, Front Mounted,	□ RPT	Removable 'P'-Trap (Standard)
		Handicap-ADA Compliant, Rectangular Bowl	OV	Lavatory Overflow
		Lavatory	☐ SLOW	Slow Drain
2.) Spout	/Bubbler Selection	:	8.) Option	is:
□ DMS	Deck Mounted Sp	pout	□ MT	Wall Template
DMBH	Ligature-resistant	t Deck Mounted Bubbler**	□ TB1	Single Toothbrush Holder
	(Not for ADA com	pliant drinking)		☐ Right ☐ Left
			☐ TB2	Dual Toothbrush Holder
3.) Lavato	ory Valve Selection	:		☐ Right ☐ Left
■ NV	No Valve (Select F	lole Punching if needed)	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC*
☐ PML1	Single Temp. Pneu	umatic Metering	☐ TF24F	Plug-in Transformer, 110VAC to 24VAC*
☐ PML2	Dual Temp. Pneun	natic Metering	☐ TH1	Single Towel Hook
■ E1L1	Single Temp. Elect	tronic (pick control)*		☐ Right ☐ Left
☐ E1L2	Dual Temp. Electro	onic (pick control)*	☐ TH2	Dual Towel Hook
				☐ Right ☐ Left
4.) Lavato	ory Valve Actuation	ı:	□ DC	Decorator Color (Fixture exterior only - White)
PBH	Ligature-resistant	Pneumatic Push Buttons**	□ ISH	Integral Shelf
☐ PZPB	Ligature-resistant	Piezo Electronic Push Buttons**	☐ DFBH	Ligature-resistant Deck Mounted Drinking ADA Compliant Fountian Bubbler**/***
5.) Electro	onic Controls* (Mu	st Use Electronic Push Button):		***(Panel Mounted Push Button)
☐ WUCC	C-3010 🔲 Pne	eutronic WMSII	Other:	
(The W	/UCC-3010 Control	can be used to pair a Lavatory with a Toilet)		
6.) Hole F	unching:		*(Req. 110	OV power through ground fault interrupter (GFCI) receptacle / breaker)
☐ 4CC	4" Centerset, Ø1-1	/4" Holes (Specify 2 or 3 holes:)		
□ 8CC	8" Centerset, Ø1-1	/4" Holes (Specify 2 or 3 holes:)	**LIGATU	JRE-RESISTANT DISCLAIMER
☐ 1CC	Center Shank, (1)	Ø1-1/4" Hole	This prod	luct is designed to minimize ligature points. While every effort has
☐ SP	Special Punching	(Specify hole punching dim.)	been ma	de to reduce the possibility of ligature points, this product does
	SP:		not elimir	nate all risks. Ligature-Resistant products by Willoughby
			Industrie	s are to be used in conjunction with, not as a replacement for,
			trained p	rofessionals.

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____

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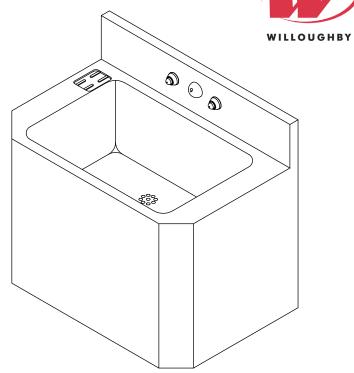


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HS-1015-20 **Stainless Steel 20" Wide Rear Mounted Rectangular Bowl Lavatory**



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a 20" Wide, Rear Mounted, Rectangular Bowl Lavatory with ligature-resistant bubbler, dual temp. pneumatic metering valve ligature-resistant pneumatic push buttons, integral 'P' trap, single towel hook, and wall sleeve
Use the following Willoughby Model Number:

HS-1015-20-BPH-PML2-PBH-PT-TH1-WS

Recommended Specifications

Stainless Steel, 20" Wide, Rear Mounted, Rectangular Bowl Lavatory shall be: Willoughby Model No. HS-1015-20 (Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:

- Rectangular-shaped bowl, 14-1/2" x 9-1/2" x 4-3/8" deep
- Stainless steel penal bubbler/filler
- Fast drain with air vent
- Elbow Waste (1-1/2" Plain End)
- Self-draining soap dish
- 0.5 GPM flow rate

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.





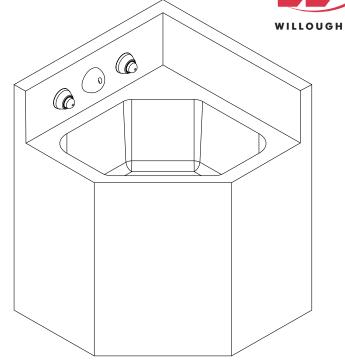
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7.) Options: 1.) Base Model Number: ☐ HS-1015-20 Stainless Steel, 20" Wide, Rear Mounted, Rectangular Bowl □ MT Wall Template □ TB1 Single Toothbrush Holder Lavatory □ Right 2.) Bubbler Selection: □ TB2 **Dual Toothbrush Holder** BPH Ligature-resistant Bubbler/Filler (Standard)** Left Right Code Bubbler/Filler (w/ Non Ligature-Resistant Mouth Guard) ☐ TF24H □ вс Hard-wired Transformer, 110VAC to 24VAC* Plug-in Transformer, 110VAC to 24VAC* ☐ FLH Ligature-resistant Lav. Filler** ☐ TF24P ☐ TH1 Single Towel Hook 3.) Lavatory Valve Selection: ☐ Right Left TH2 ■ NV No Valve **Dual Towel Hook** ☐ PSL1 Single Temp. Pneumatic Non-metering □ Right Left ■ WS Wall Sleeve (Requires Accessible Chase) ☐ PSL2 Dual Temp. Pneumatic Non-metering ☐ PML1 Single Temp. Pneumatic Metering □ ISH Integral Shelf Dual Temp. Pneumatic Metering U VG Ventilation Grille (Specify Location and Free Area) □ PML2 ■ E1L1 Single Temp. Electronic (pick control)* Other: Dual Temp. Electronic (pick control)* ☐ E1L2 Other: Valve Manifold Options: Pneumatic or Electronic Only: *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) ☐ MA2 ☐ MA3 ☐ MA4 **LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort has 4.) Lavatory Valve Actuation: Ligature-resistant Pneumatic Push Buttons** been made to reduce the possibility of ligature points, this product does not □ PBH Ligature-resistant Piezo Electronic Push Buttons** eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. 5.) Electronic Controls* (Must Use Electronic Push Button): ☐ WUCC-3010 Pneutronic ☐ WMSII (The WUCC-3010 Control can be used to pair a Lavatory with a Toilet) 6.) Lavatory Waste: 🔲 ЕВ Elbow Waste (1-1/2" Plain End) (Standard) □ PT Integral 'P'-Trap ■ LWE Lavatory Waste Extension (Specify if more than 3") OV **Lavatory Overflow** SLOW Slow Drain LW1 Thru-Wall Extension, 'P'-Trap Thru-Wall Extension and Clean-Out □ LW2 LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron Approved For Manufacturing By: __ Date: Company: _ Wall Thickness: Wall Type: 13 1/4" .23/4" 9 1/2" SELF DRAINING VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN SOAP DISH WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION BUBBLER/FILLER 1/2 20 FAST DRAIN PLAN VIEW 1 1/16" -4 DOUBLE 'D' VALVE AND BUBBLER MOUNTING HOLES 10 1/4" 1/2" 13 1/4" 1 1/2" PLAIN END WASTE 4 3/8" CONNECTION (4) 1/2"-13 ANCHOR TAPPINGS W/ WALL FASTENERS 18 1/2" -||--- 3/4" SIDE VIEW REAR VIEW

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CS-1013-46 **Stainless Steel** 13" Wide **Rear Mounted Corner Lavatory**



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a 13" Wide Corner Lavatory, left hand with ligature-resistant bubbler, dual temp. pneumatic metering valve ligature-resistant pneumatic push buttons, elbow waste , and single towel hook

Use the following Willoughby Model Number: CS-1013-46-L-BPH-PML2-PBH-EB-TH1

Recommended Specifications

Stainless Steel, 13" Wide, Rear Mounted, Corner Lavatory shall be: Willoughby Model No. CS-1013-46 (Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:

- Multi-sided bowl, 12-3/4" x 8-1/4" x 5" deep
- Stainless steel penal bubbler/filler
- Fast drain with air vent
- Elbow Waste (1-1/2" Plain End)
- Self-draining soap dish
- 0.5 GPM flow rate

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.



WARNING: Cancer and Reproductive Harm

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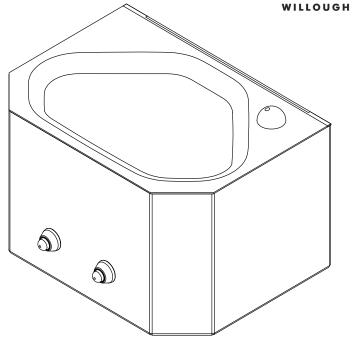
GS 1073-66 Standards Standards Standards Standards France Standards Standards France Standards France Standards Standa	1.) Base	Model Number:	7.) Lavatory Waste:
2) Calcine Mounting: Left Hand Cov Level Hand Cov Calcine Hand	☐ CS-1	Stainless Steel, 13" Wide, Rear Mounted, Corner Lavatory	
Lett Hand Reptit Hand OV Levatory Overflow Levatory Overflow Levatory Selection: Lett Hand Overflow Levatory Selection: Lett Legature-resistant Bubbler Filler (Standard)* Lett	2.) Cabir	et Mounting:	
3.) Bubbler Selection: UNIT Thru-Wall Estension on Closen-Out UNIT Unit of 1-1/2" Tube to 1-1/2" PVC/Cast Into UNIT Unit of 1-1/2" Tube to 1-1/2" PVC/Cast Into UNIT Unit of 1-1/2" PVC/Cast Into UNIT UN		-	
3.) Bubble Selection: WZ Trut-Wall Extension and Clean-Out WX Trut-Wall Extension to 1-127 trut WX Wall Extension and Clean-Out WX Wall Extension WX Wall Exte	☐ R	Right Hand	-
BPH Ligature-resistant Debtories (Standard)* Light Lig			<u> </u>
Goto Bubble/Filler (w/ Non Ligature-Resistant Mouth Guard) DWC2 Coupling, 1-1/2* Tube to 1-1/2* PVCICast Iron	,		_
Company Comp	_	, ,	
4. Levatory Valve Selection: NV No Valve T81 Single Tonichtrush Holder		,	Levoz Coupling, 1-1/2 Tubo to 1-1/2 T vo/oust non
No Valve PSL1 Single Temp. Pneumatic Non-metering PSL1 Single Temp. Pneumatic Non-metering PSL2 Dual Temp. Pneumatic Non-metering PSL2 Dual Temp. Pneumatic Non-metering PSL2 Dual Temp. Pneumatic Notemper PSL2 Dual Temp. Electronic (pick control)* PSL2 Dual Temp. Electronic Oxide control)* PSL2 Dual Temp. Electronic Oxide control)* PSL2 Dual Temp. Electronic Oxide control)* PSL2 Dual Temp. Electronic Dual Electronic Dual Electronic Dual Temp. Electronic Dual Buttons** PSBL Ligature resistant Pneumatic Duals Buttons** Dual Electronic Push B	_		8.) Options:
PSLI_Single Temp. Preumatic Non-metering PRI_SID_BUTENP, Presentate Non-metering Non-metering Non-metering Non-metering Non-metering Non-metering Non-me	4.) Lavat	-	
PRIJ. Dual Temp. Pineumatic Non-metering TR2 Dual Toothbrush Holder PRIM. Single Temp. Pineumatic Metering Right Left Right Left PRIM. Single Town Single Town PRIM. Single Town PRIM. Single Town PRIM. Single Town S			_
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PAL2 Dual Temp. Precumatic Matering FEAH Hard-wired Transformer, 110/AC to 24/AC" E111 Single Fleer Dielectronic (cirk control)" E729 Pulgain Transformer, 110/AC to 24/AC"			_
EIL1 Single Temp, Electronic (pick control)* TF24P Plug-in Transformer, 110VAC to 24VAC*	_	• .	_ · · -
Right Left			-
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5.) Lavatory Valve Actuation: PRIM Ligature-resistant Pleasures Vision Visi			
\$) Lavatory Valve Actuation: PBH Ligature-resistant Piezo Electronic Push Buttons** PZPB Elgature-resistant Piezo Electronic Push Buttons** Discreption Controls* (Must Use Electronic Push Buttons** Other: Other:	U IVIAZ	LI IVIA	_ • • —
PRI Ligature-resistant Prezumatic Push Buttons** Other:	5.) Lavat	ory Valve Actuation:	
*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. **Approved For Manufacturing By:	•		, i i
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	WILLOL ENSION	1 1/2" PLAIN END HOLES TO SUIT B WASTE CONNECTION & WATER SIDE VIEW	SUBBLER 6 1/2*

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CHS-1013-46 **Stainless Steel Rear Mounted** China Alternative Lavatory*



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a China Alternative Lavatory with ligature-resistant deck mounted bubbler, dual temp pneumatic metering valve, ligature-resistant pneumatic push buttons, elbow waste, and single towel hook

. Use the following Willoughby Model Number: CHS-1013-46-DMBH-PML2-PBH-TH1

Recommended Specifications

Stainless Steel, Rear Mounted, China Alternative Lavatory shall be: Willoughby Model No. CHS-1013-46 (Select from model number and options list on next page)

Fixture shall be fabricated from 16 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces having a bead blast finish. Lavatory underside shall be exposed with non-polished finish.

Standard lavatory shall include:

- Multi-sided bowl, 12-3/4" x 8-1/4" x 5" deep
- Stainless steel deck mounted bubbler
- Fast drain with air vent
- Integral Elbow Waste w/ 6-1/2" lav. waste extension and Ø1-1/2" no-hub waste connection
- 0.5 GPM flow rate

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers. Unit is wall hung and shall require chase area for installation and maintenance.

*Designed to be a lower cost lavatory to more closely compete with Viteous China.





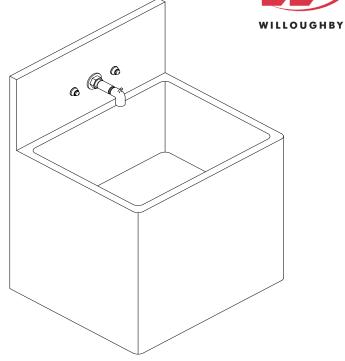
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1.) Base Mo	odel Number: 13-46 Stainless Steel, Rear Mounted, China Alternative Lavatory	7.) Options: MT Wall Template
2.) Bubbler	Salaction	☐ TB1 Single Toothbrush Holder ☐ Right ☐ Left
•	igature-resistant Deck Mounted Bubbler (Standard)**	☐ TB2 Dual Toothbrush Holder ☐ Right ☐ Left
3.) Lavatory	/ Valve Selection:	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*
_	No Valve	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
_	Single Temp. Pneumatic Non-metering	☐ TH1 Single Towel Hook
_	Dual Temp. Pneumatic Non-metering Single Temp. Pneumatic Metering	☐ Right ☐ Left ☐ TH2 Dual Towel Hook
	Dual Temp. Pneumatic Metering	Right Left
	Single Temp. Electronic (pick control)*	☐ WS Wall Sleeve (Requires Accessible Chase)
	Oual Temp. Electronic (pick control)*	☐ ISH Integral Shelf
	fold Options:	Other:
	c or Electronic Only: MA3 MA4	Other:
U IVIAZ	I WIAG I WIAG	*(Reg. 110V power through ground fault interrupter (GFCI) receptacle / breaker)
4.) Lavatory	/ Valve Actuation:	(· · · · · · · · · · · · · · · · · · ·
☐ PBH I	Ligature-resistant Pneumatic Push Buttons**	**LIGATURE-RESISTANT DISCLAIMER
☐ PZPB	Ligature-resistant Piezo Electronic Push Buttons**	This product is designed to minimize ligature points. While every effort has
☐ WUCC-3		been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for,
(The WU	CC-3010 Control can be used to pair a Lavatory with a Toilet)	trained professionals.
	ntegral Elbow Waste w/ 6-1/2" Lav. Waste Extension and	
	I-1/2" No-hub Waste Connection (Standard)	
_	ntegral 'P'-Trap .avatory Overflow	
SLOW S		
	Гhru-Wall Extension, 'P'-Trap	
_	Fhru-Wall Extension and Clean-Out	
_	Coupling, 1-1/2" Tube to 1-1/2" Tube	
LWC2	Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron	
	d For Manufacturing By:	Date: Company:
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SS Series Stainless Steel Rear Mounted Service Sink



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a 22" x 19" Rear Mounted Service Sink, off the floor mounted, with plain end spout, dual temp. pneumatic metering valve ligature-resistant pneumatic push buttons and standard elbow waste

Use the following Willoughby Model Number:
SS-2219-OF-SE-PML2-PBH-EB

Recommended Specifications

Stainless Steel, Rear Mounted, Service Sink shall be: Willoughby Model No. SS (Select from model number and options list on next page)

Entire fixture, including bracing and internal plumbing, shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Rectangular shaped, 10" deep sink bowl
- Fast drain with air vent
- Elbow Waste (2" F.I.P.)
- 0.5 GPM flow rate

Anchoring shall be by 6 or 8 point system: threaded rods, nuts and washers furnished for walls up to 8" thick. Unit requires chase area for installation and maintenance.



WARNING: Cancer and Reproductive Harm

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1.) Base Model Numb	per:	7.) Hole F	Punching:	
-	22" x 19" Stainless Steel, Rear Mounted, Service Sink	☐ 4CC	4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:)	
☐ SS-2419	24" x 19" Stainless Steel, Rear Mounted, Service Sink	☐ 8CC	8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:)	
	-	<u> </u>	Center Shank, (1) Ø1-1/4" Hole	
2.) Fixture Mounting		☐ SP	Special Punching (Specify hole punching dim.)	
OF Off-Floor, V			SP:	
☐ FM On-Floor, V	Vall Outlet	0)	am. Manta.	
2) Chaut Calastian		-	ory Waste:	
3.) Spout Selection: SE Spout with	Diain End	☐ EB ☐ PT	Elbow Waste (Standard) Integral 'P'-Trap	
	Hose End With Vacuum Breaker		Lavatory Waste Extension	
STIVE Spout with	Hose Life Willi Vacuulli Dieakei		Lavatory waste Extension	
4.) Lavatory Valve Se	lection:	9.) Option	ne:	
•	Select Hole Punching if needed)	☐ MT	Wall Template	
•	p. Pneumatic Non-metering	☐ WS	Wall Sleeve (Requires Accessible Chase)	
_ •	Preumatic Non-metering Preumatic Non-metering	☐ SD	Surface Mounted Soap Dish	
·	p. Pneumatic Metering	_	Hard-wired Transformer, 110VAC to 24VAC*	
☐ PML2 Dual Temp		_	P Plug-in Transformer, 110VAC to 24VAC*	
·	p. Electronic (pick control)*	☐ VG	Ventilation Grille (Specify Location and Free Area)	
_ •	Electronic (pick control)*	DC	Decorator Color (Fixture exterior only - White)	
Valve Manifold Optio		☐ TG	12 Gauge Cabinet	
Pneumatic or Electro				
☐ MA2 ☐ MA3		Other:		
U IVIAZ	U MA4	U Other.	•	
E) Lavatamy Valva Aa	tuation.	*/Dog 11	101/ navver through ground foult interruptor (CECI) recented a / hree	alcor)
5.) Lavatory Valve Ac		"(Req. 11	10V power through ground fault interrupter (GFCI) receptacle / brea	aker)
-	esistant Pneumatic Push Buttons**	**! !	LIDE DECICTANT DICCLAIMED	
☐ PZPB Ligature-re	esistant Piezo Electronic Push Buttons**		URE-RESISTANT DISCLAIMER	
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•	Is* (Must Use Electronic Push Button):		ade to reduce the possibility of ligature points, this product do	oes
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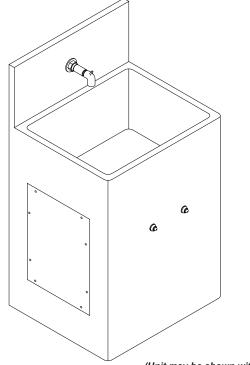
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SS-FA Series Stainless Steel Front Mounted Service Sink



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Front Mounted Service Sink, 22" x 20" with plain end spout, dual temp. pneumatic metering valve ligature-resistant pneumatic push buttons, and removable 'p'-trap

Use the following Willoughby Model Number: SS-2220-FM-FA-SE-PML2-PBH-RPT

Recommended Specifications

Stainless Steel, Front Mounted Service Sink shall be: Willoughby Model No. **SS-FA** (Select from model number and options list on next page)

Entire fixture, including bracing and internal plumbing, shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Rectangular shaped, 10" deep sink bowl
- Fast drain with air vent
- (1-1/2") slip joint, cast brass union 'p'-trap
- Removable access panels attached with security screws to provide access to fixture interior
- 0.5 GPM flow rate

Anchoring shall be from the front with 'z'-clip. Wall/floor anchoring holes provided. Anchoring hardware by others. Unit requires no chase area for installation and maintenance.



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1.) Base Model Number: ☐ SS-2220-FM-FA 22" x 20" Stainless Steel. Front Mounted Service Sink (Floor Mounted, Wall Outlet) ☐ SS-2420-FM-FA 24" x 20" Stainless Steel, Front Mounted Service Sink (Floor Mounted, Wall Outlet) 2.) Spout Selection: ☐ SE Spout with Plain End ☐ SHVB Spout with Hose End With Vacuum Breaker 3.) Lavatory Valve Selection: ■ NV No Valve (Select Hole Punching if needed) ☐ PSL1 Single Temp. Pneumatic Non-metering □ PSL2 Dual Temp. Pneumatic Non-metering ■ PML1 Single Temp. Pneumatic Metering ☐ PML2 Dual Temp. Pneumatic Metering ☐ E1L1 Single Temp. Electronic (pick control)* ☐ E1L2 Dual Temp. Electronic (pick control)* 4.) Lavatory Valve Actuation:

Ligature-resistant Pneumatic Push Buttons** ☐ PZPB Ligature-resistant Piezo Electronic Push Buttons**

(The WUCC-3010 Control can be used to pair a Sink with a Toilet)

■ WMSII

5.) Electronic Controls* (Must Use Electronic Push Button):

Pneutronic

6.) Hole Punching:			
☐ 4CC	4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:		
☐ 8CC	8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:		
☐ 1CC	Center Shank, (1) Ø1-1/4" Hole		
☐ SP	Special Punching (Specify hole punching dim.)		
	SP:		
7.) Lavato	ry Waste:		
RPT	Removable 'P'-Trap (Standard)		
8.) Option	s:		
■ MT	Wall Template		
☐ SD	Surface Mounted Soap Dish		
☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC*		
TF24P	Plug-in Transformer, 110VAC to 24VAC*		
□ VG	Ventilation Grille (Specify Location and Free Area)		
DC	Decorator Color (Fixture exterior only - White)		
☐ TG	12 Gauge Cabinet		
Other:	•		
Other:			
_ 3			

*(Reg. 110V power through ground fault interrupter (GFCI) receptacle / breaker)

**LIGATURE-RESISTANT DISCLAIMER

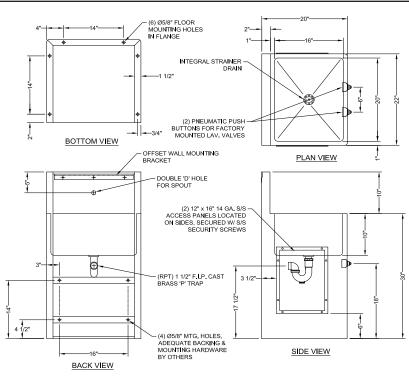
This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		,

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□ PBH

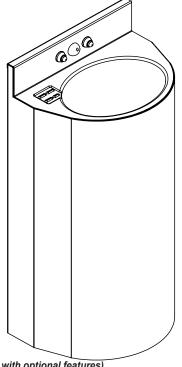
☐ WUCC-3010



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ASHS-1013-06 Stainless Steel 18" Wide Rear Mounted Ligature-resistant Lavatory



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an 18" Wide, Rear Mounted, Ligature-resistant Lavatory with ligature-resistant bubbler and dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, and elbow waste

Use the following Willoughby Model Number:
ASHS-1013-06-BPH-PML2-PBH-EB

Recommended Specifications

Stainless Steel, 18" Wide, Rear Mounted, Ligature-resistant Lavatory shall be: Willoughby Model No. ASHS-1013-06 (Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:

- Oval-shaped bowl.13" x 9-1/2" x 6" deep
- Stainless steel ligature-resistant bubbler/filler
- Slow drain with air vent
- Elbow Waste (1-1/2" Plain End)
- Self-draining soap dish
- 0.5 GPM flow rate

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

LIGATURE-RESISTANT DISCLAIMER

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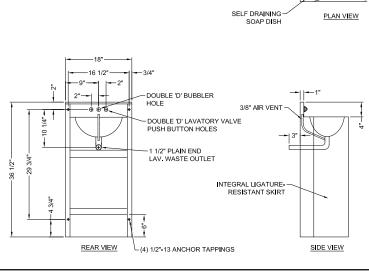
	A.V	
1.) Base Model Number:	6.) Lavatory Waste:	
ASHS-1013-06 Stainless Steel, 18" Wide, Rear Mounted, Ligature-resistant	Elbow Waste (1-1/2" Plain End) (Standard)	
Lavatory	☐ PT Integral 'P'-Trap	
	☐ LWE Lavatory Waste Extension (Specify if more than 3")	
2.) Bubbler Selection:	OV Lavatory Overflow	
☐ BPH Ligature-resistant Bubbler/Filler (Standard)	☐ LW1 Thru-Wall Extension, 'P'-Trap	
☐ FLH Ligature-resistant Lav. Filler	☐ LW2 Thru-Wall Extension and Clean-Out	
	☐ SLOW Slow Drain (Standard)	
3.) Lavatory Valve Selection:	☐ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube	
■ NV No Valve	☐ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron	
☐ PSL1 Single Temp. Pneumatic Non-metering		
☐ PSL2 Dual Temp. Pneumatic Non-metering	7.) Options:	
☐ PML1 Single Temp. Pneumatic Metering	☐ MT Wall Template	
☐ PML2 Dual Temp. Pneumatic Metering	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*	
☐ E1L1 Single Temp. Electronic (pick control)*	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*	
☐ E1L2 Dual Temp. Electronic (pick control)*	☐ TH1 Single Towel Hook	
Valve Manifold Options:	☐ Right ☐ Left	
Pneumatic or Electronic Only:	☐ TH2 Dual Towel Hook	
■ MA2 ■ MA3 ■ MA4	☐ Right ☐ Left	
	☐ WS Wall Sleeve (Requires Accessible Chase)	
4.) Lavatory Valve Actuation:	☐ Other:	
☐ PBH Ligature-resistant Pneumatic Push Buttons	☐ Other:	
☐ PZPB Ligature-resistant Piezo Electronic Push Buttons		
	*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)	
5.) Electronic Controls* (Must Use Electronic Push Button):		
☐ WUCC-3010 ☐ Pneutronic ☐ WMSII		
(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)		

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____

(BPH) LIGATURE-RESISTANT BUBBLER

SLOW DRAIN

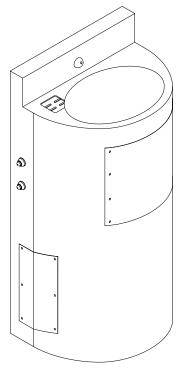
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ASHS-1013-06-FA Stainless Steel 18" Wide Front Mounted Ligature-resistant Lavatory





To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an 18" Wide, Front Mounted, Ligature-resistant Lavatory with ligature-resistant bubbler, dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, and removable 'p'-trap

Use the following Willoughby Model Number:
ASHS-1013-06-FA-BPH-PML2-PBH-RPT

Recommended Specifications

Stainless Steel, 18" Wide, Front Mounted, Ligature-resistant Lavatory shall be: Willoughby Model No. ASHS-1013-06-FA (Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:

- Oval-shaped bowl. 13" x 9-1/2" x 6" deep
- Stainless steel ligature-resistant bubbler/filler
- Slow drain with air vent
- (1-1/2") slip joint, cast brass union 'p'-trap
- (3) removable cabinet mounted panels attached with vandal resistant screws
- -Self-draining soap dish
- 0.5 GPM flow rate

Anchoring shall be from the front with anchoring holes provided. Anchoring hardware by others. Unit requires no chase area for installation and maintenance.

LIGATURE-RESISTANT DISCLAIMER

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Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.



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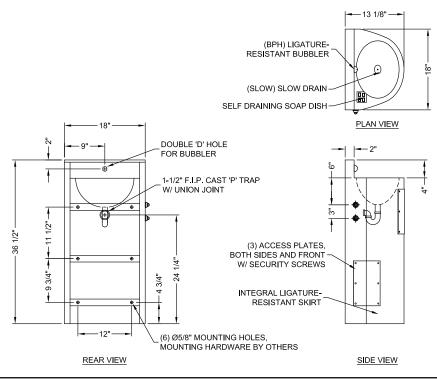
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6.) Lavatory Waste: 1.) Base Model Number: RPT ☐ ASHS-1013-06-FA Stainless Steel, 18" Wide, Front Mounted, Removable 'P'-Trap (Standard) Ligature-resistant Lavatory 2.) Bubbler Selection: ☐ BPH Ligature-resistant Bubbler/Filler (Standard) ☐ FLH Ligature-resistant Lav. Filler 3.) Lavatory Valve Selection: ■ NV No Valve ☐ PSL1 Single Temp. Pneumatic Non-metering ■ PSL2 Dual Temp. Pneumatic Non-metering ☐ PML1 Single Temp. Pneumatic Metering ■ PML2 Dual Temp. Pneumatic Metering ☐ E1L1 Single Temp. Electronic (pick control)* ☐ E1L2 Dual Temp. Electronic (pick control)* 4.) Lavatory Valve Actuation: Ligature-resistant Pneumatic Push Buttons □ PBH □ PZPB Ligature-resistant Piezo Electronic Push Buttons 5.) Electronic Controls* (Must Use Electronic Push Button): ■ WUCC-3010 Pneutronic ■ WMSII (The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)

U OV Lava	atory Overllow	
☐ SLOW Slov	w Drain (Standard)	d)
	()	-,
7.) Options:		
☐ MT Wal	l Template	
_		ormer, 110VAC to 24VAC*
_		,
☐ IF24P PI	ug-in Transformer	er, 110VAC to 24VAC*
☐ TH1 Sing	gle Towel Hook	
	Right	☐ Left
☐ TH2 Dua	I Towel Hook	_
_		☐ Left
_	Right	_ Leit
Other:		
☐ Other:		
_		
*/□ 110\/		
(Req. 110V po	wer inrough grour	ind fault interrupter (GFCI) receptacle / breaker)

Approved For Manufacturing By:_ Company: Date: _ Wall Thickness: _ Wall Type:

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LAVATORY BUBBLER SELECTION





MACHINED STAINLESS STEEL

"CODE TYPE" PENAL FILLER/BUBBLER INCLUDES A NON LIGATURE-RESISTANT MOUTH GUARD. MUST SPECIFY WHERE MOUTH GUARDS ARE REQUIRED BY LOCALCODES.

(BC) CODE BUBBLER/FILLER

MACHINED STAINLESS STEEL



HEMISPHERICAL
PENAL BUBBLER
PROVIDES A FLOW OF
WATER FOR DRINKING
AND FILLING THE BASIN.
DESIGN IS LIGATURERESISTANT.

(BPH) LIGATURE-RESISTANT BUBBLER/FILLER

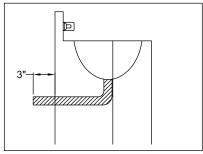
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MACHINED STAINLESS STEEL

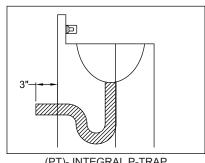
HEMISPHERICAL
LAVATORY FILLER
PROVIDES A FLOW OF
WATER TO THE
LAVATORY BASIN ONLY.
DESIGN IS LIGATURERESISTANT.

(FLH) LIGATURE-RESISTANT LAV. FILLER

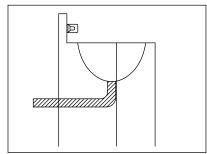
LAVATORY WASTE



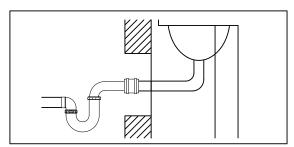
(EB)- Elbow Waste (1-1/2" Plain End) (1-1/2" PLAIN END)



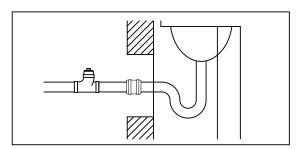
(PT)- INTEGRAL P-TRAP (1-1/2" PLAIN END)



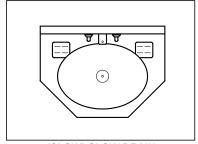
(LWE)- LAVATORY WASTE EXTENSION GREATER THAN 3" (1-1/2" PLAIN END)



(LW1)- BRASS THRU-WALL EXTENSION P-TRAP WITH LWC (FOR USE W/ (EB) Elbow Waste (1-1/2" Plain End))



(LW2)- BRASS THRU-WALL EXTENSION P-TRAP WITH LWC (FOR USE W/ (PT) INTEGRAL 'P'-TRAP)



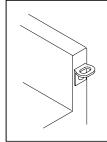
(SLOW) SLOW DRAIN SINGLE DRAIN HOLE

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OTHER OPTIONS

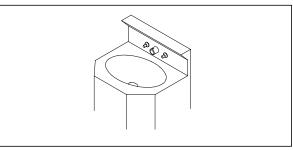




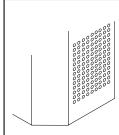
CONSTRUCTED FROM TYPE 304

TOOTHBRUSH HOLDER(S) CAN BE MOUNTED TO EITHER SIDE OR BOTH SIDES OF THE FIXTURE BACKSPLASH. THE TOOTHBRUSH HOLDER IS FASTENED TO THE FIXTURE CABINET.

(TB1__) SINGLE TOOTHBRUSH HOLDER (TB2__) DUAL TOOTHBRUSH HOLDER (SPECIFY (R) RIGHT OR (L) LEFT)



(ISH) INTEGRAL SHELF



A SERIES OF 1/4" HOLES PUNCHED ON 1/2" CENTERS PROVIDES AN ECONOMICAL MEANS OF PROVIDING A RETURN AIR SOURCE THROUGH THE FIXTURE AND WALL OPENING. (DUCTWORK AND DUCT FLANGES BY OTHERS). SPECIFY LOCATION AND FREE AREA REQUIREMENTS.

(VG) VENTILATION GRILLE (SPECIFY LOCATION AND FREE AREA)



CONSTRUCTED OF 18 GAUGE GALVANIZED STEEL.

METAL WALL TEMPLATES PROVIDE FOR FIXTURE ROUGH-IN CUT-OUTS IN A STEEL WALL. THE TEMPLATE HAS INTEGRAL LAYOUT PATTERNS FOR CUTTING OR DRILLING WALL OPENINGS.

(MT) WALL TEMPLATE



CONSTRUCTED OF 20 GAUGE GALVANIZED STEEL.

WALL SLEEVES PROVIDE FOR FIXTURE PLUMBING ROUGH-IN OPENINGS IN BLOCK AND POURED CONCRETE WALLS. THE SLEEVE BECOMES A PERMANENT PART OF THE WALL AND HAS 1/2" DIAMETER STEEL ROD(S) WELDED TO THE FRAME. THE STEEL RODS PROVIDE RIGIDITY AND HELP TO HINDER ESCAPE INTO THE CHASE SHOULD THE FIXTURE BE REMOVED. (SLEEVE BRACING BY OTHERS DURING WALL CONSTRUCTION REQUIRED) (MUST SPECIFY WALL THICKNESS AND TYPE)

(WS) WALL SLEEVE



CONSTRUCTED FROM TYPE 304 STAINLESS STEEL.

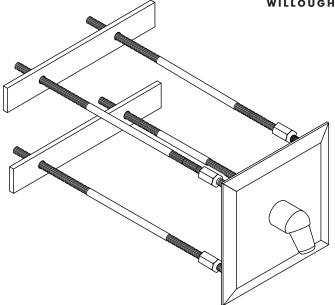
THIS PRESSURE ACTIVATED RELEASE TOWEL HOOK WILL SUPPORT LIGHT CLOTHING & TOWEL LOADS, HOWEVER, EXCESSIVE LOADS PLACED ON THE HOOK WILL CAUSE IT TO RELEASE DOWNWARD.

(TH1__) SINGLE TOWEL HOOK (TH2__) DUAL TOWEL HOOK (SPECIFY (R) RIGHT OR (L) LEFT)



WBIS Series Rear Mounted Built-In Shower





Recommended Specifications

Rear Mounted Built-In Shower shall be: Willoughby Model No. **WBIS** (Select from model number and options list on next page)

Shower head and valve push button face plates shall be fabricated from 14 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Shower valve (Select from Valve Selection options list)
- (NPS) non-adjustable penal shower head

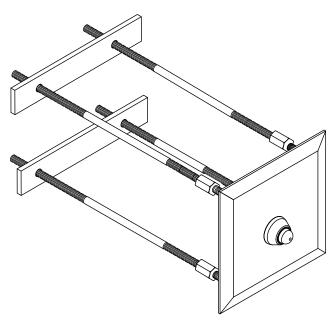
Anchoring of each component shall be by standard 4-point system: 1/4" threaded rods, nuts and backing bars furnished for walls up to 8" thick. Unit requires chase area for installation and maintenance.

Handicap Accessible:

The WBIS can be installed to conform to most ADA requirements.

(Compliance shall be subject to the requirements of the local code authority based on installation-specific details and is the responsibility of the installer.)

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Rear Mounted Built-In Shower with single temp. pneumatic metering valve, standard ligature-resistant pneumatic push button, 2.5 GPM flow rate, standard (NPS) shower head, in-line thermostatic mixing valve, and separate recessed mounted soap dish

Use the following Willoughby Model Number: WBIS-PML1-PBH-2.5GPM-NPS-TMV-RSD1



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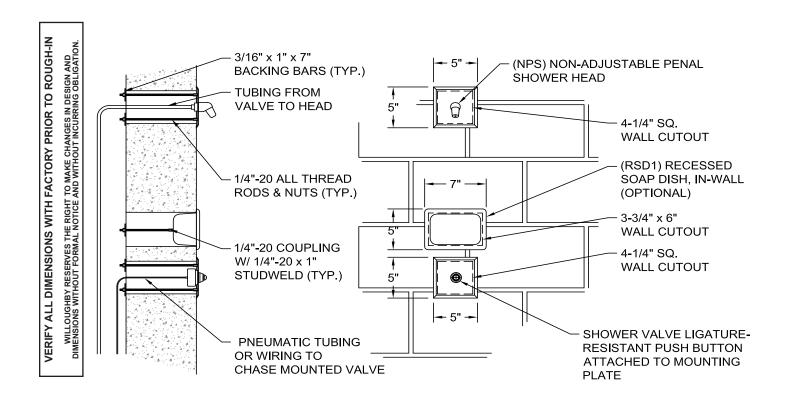
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1.) Base Model Number:	5.) Electronic Controls* (Must Use Electronic Push Button):
☐ WBIS Rear Mounted Built-In Shower	☐ WUSC-2200 ☐ WUSC-2400 ☐ Pneutronic ☐ WMS II
2.) Valve Selection: NV No Valve PML1 Single Temp. Pneumatic Metering © © PML2 Dual Temp. Pneumatic Metering © © E1L1 Single Temp. Electronic (Pick Control)* © © E1L2 Dual Temp. Electronic (Pick Control)* © © MA2 Valve Manifold Option (Pneumatic or Electronic Valves Only): (See the Manifold Option Page at the end of Catalog Section \$5 for further information)	6.) Shower Head Selection: NPS Non-adjustable Penal Shower Head (Standard) APS Adjustable Penal Shower Head CSH Ligature-resistant Shower Head LRSH Ligature-resistant Shower Head, WaterSense Labeled Insert (1.5 GPM & 2.0 GPM Flow Rate only) 7.) Options: TMV In-line Thermostatic Mixing Valve
3.) Push Button Selection: Pneumatic or Electronic Valves Only: ☐ PBH Ligature-resistant Pneumatic Push Buttons ♥ ▼ ☐ PZPB Ligature-resistant Piezo Electronic Push Buttons* ♥ ▼	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* ☐ TF24P Plug-in Transformer, 110VAC to 24VAC* ☐ SD Surface Mounted Soap Dish (Wall Mounted) ☐ RSD1 Recessed Soap Dish (In-Wall Mounted)
4.) Flow Rates: 2.5 GPM (Standard) 2.0 GPM 1.5 GPM	*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) • For security applications • Ligature-resistant option** **LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.
Approved For Manufacturing By: Wall Type:	Date: Company:







WBIS-ADA Series ADA-Compliant Rear Mounted Built-In Shower



Recommended Specifications

ADA-Compliant, Rear Mounted Built-In Shower shall be: Willoughby Model No. **WBIS-ADA** (Select from model number and options list on next page)

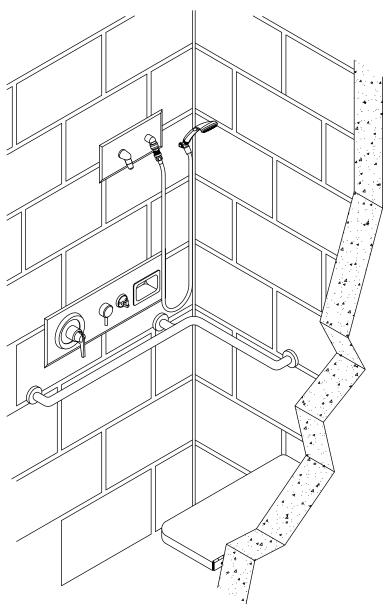
Shower head and valve push button face plates shall be fabricated from 14 gauge, Type 304 stainless steel with exposed surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)

Anchoring of each component shall be by standard 4-point system: 1/4" threaded rods, nuts and backing bars furnished for walls up to 8" thick. Unit requires chase area for installation and maintenance.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).



LEFT HAND CONTROL FIXTURE SHOWN (Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an ADA-Compliant, Rear Mounted Built-In Shower with left hand controls, temp./ pressure-balancing mixing valve, diverter valve, standard 2.5 GPM flow rate, APS adjustable vandal-resistant and FX Flexshower shower heads, S/S folding shower seat (right hand), two wall grab bar, and recessed soap dish

Use the following Willoughby Model Number: WBIS-ADA-L-TPV-DV-2.5-APS-FX-FSSR-GB3318-RD



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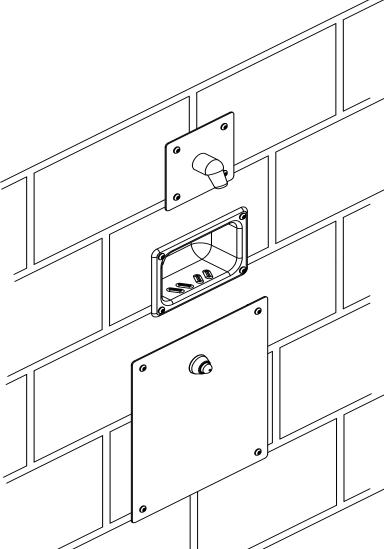
© Rev. 7/2023 \$5-3

1.) Base Mo	odel Number:	8.) Shower	Head Selection:
WBIS-A	DA ADA-Compliant, Rear Mounted Built-In Shower	□ APS	Adjustable Vandal-resistant Shower Head
		☐ NPS	Non-Adjustable Vandal-resistant Shower Head Output Description:
2.) Panel Oi	rientation (Must Specify):	UBJ	Universal Ball Joint Shower Head
☐ L	Left Hand Controls	LBJ	Lockable Ball Joint Shower Head
⊒ R	Right Hand Controls	☐ CSH	Ligature-resistant Shower Head 🧿 🖫
		LRSH	Ligature-resistant Shower Head, WaterSense Labeled Insert
3.) Valve Se	election:		(1.5 GPM & 2.0 GPM Flow Rate only)
□ NV	No Valve	□ FX	Hand-held Flexshower Head (w/ quick disconnect,
PML1	Single Temp. Pneumatic Metering		vacuum breaker, and (1) hook)
PML2	Dual Temp. Pneumatic Metering 9 ®	☐ LRFX	Ligature-resistant Quick Disconnect Hand Held Shower
E1L1	Single Temp. Electronic (Pick Control)* 9 9	☐ 2HD	Dual Fixed Shower Heads §
E1L2	Dual Temp. Electronic (Pick Control)* © ©		Buai i Nou Citowol Floudo C
PBV	Pressure-Balancing Mixing Valve	9) Ontions	al Shower Seat
TPV	Temperature/Pressure-Balancing Mixing Valve	☐ FSS	Stainless Steel Folding Shower Seat 9
TPLR	Ligature-resistant Temp/Pressure-balancing Mixing Valve ®	☐ PFSS	Padded Stainless Steel Folding Shower Seat
		_	· · · · · · · · · · · · · · · · · · ·
SVCL	Single Temp. Compression Valve (w/ ADA lever handle)	PHSS	Phenolic Folding Shower Seat
DVCL	Dual Temp. Compression Valves (w/ ADA lever handle)		
MA2	Valve Manifold Option (Pneumatic or Electronic Valves Only):		
	(See the Manifold Option Page at the end of	10.) Other	·
	Catalog Section <u>S5</u> for further information)	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC* (Standard)
		☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*
l.) Diverter	Valve:	☐ TMV	Inline Thermostatic Mixing Valve
D V	Diverter Valve	☐ HL	Hi-Lo (2 Hooks For Flexshower)
□ DVLR	Ligature-resistant Diverter Valve	☐ SLB24	24" Adjustable Slide Bar (for Flexshower, Wall Mounted)
PML1-M	· ·	SD	Surface Mounted Soap Dish
	(Used to divert water flow to either upper, lower, or both	RD	Recessed Mounted Soap Dish S ®
	shower heads; for use with Mixing Valve options above)	Other	
	,		
5.) Push Bu	itton Selection:	*(Rea. 110	DV power through ground fault interrupter (GFCI) receptacle / breaker)
,	or Electronic Valves Only:		mote accessible area for mounting)
☐ PBH	Ligature-resistant Pneumatic Push Buttons 🧿 🖫		urity applications
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visit our website at www.willoughby-ind.com 5105 West 78th Street ● Indianapolis, IN. 46268



WBIS-FA Series **Front Mounted**



Recommended Specifications

Built-In Shower

Front Mounted Built-In Shower shall be: Willoughby Model No. WBIS-FA (Select from model number and options list on next page)

Shower head and valve push button face plates shall be fabricated from 14 gauge, Type 304 stainless steel with exposed surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Shower valve (from Valve Selection options list)
- (NPS) non-adjustable penal shower head

Anchoring of stainless steel panels shall be from the front. Wall anchors by others.

Handicap Accessible:

The WBIS-FA can be installed to conform to most ADA requirements.

(Compliance shall be subject to the requirements of the local code authority based on installation-specific details and is the responsibility of the installer.)

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Front Mounted Built-In Shower with single temp. pneumatic metering valve, standard ligature-resistant pneumatic push button, standard 2.5 GPM flow rate, standard (NPS) shower head, and wall mounted recessed soap dish

Use the following Willoughby Model Number:
WBIS-FA-PML1-PBH-2.5GPM-NPS-RSD2



WARNING: Cancer and Reproductive Harm

- www.P65Warnings.ca.gov

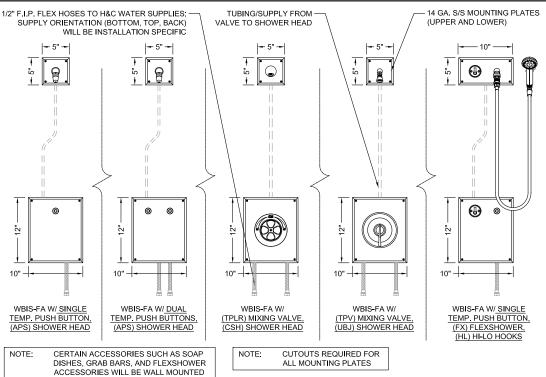


WILLOUGHBY

MADE IN THE U.S.A.

Qualiform Qual	1.) Base Model Number: WBIS-FA Front Mounted Built-in Shower	6.) Shower Head Selection: ☐ APS Adjustable Vandal-resistant Shower Head ☐ NPS Non-Adjustable Vandal-resistant Shower Head (Standard) •
PML1 Single Temp. Pneumatic Metering ● ▼ CSH Ligature-resistant Shower Head ● ▼ LRSH Ligature-resistant Shower Head (w quick disconnect, vacuum breaker, and (1) hook) TPV Temperature/Pressure-Balancing Mixing Valve LRSH Ligature-resistant Shower Head (w quick disconnect, vacuum breaker, and (1) hook) TPV Temperature/Pressure-Balancing Mixing Valve LRSH Ligature-resistant Temp/Pressure-balancing Mixing Valve LRSH Ligature-resistant Quick Disconnect Hand Held Shower ▼ TPV Temperature/Pressure-balancing Mixing Valve LRFX Ligature-resistant Quick Disconnect Hand Held Shower ▼ TPV Ligature-resistant Temp/Pressure-balancing Mixing Valve ▼ LRFX Ligature-resistant Quick Disconnect Hand Held Shower ▼ TPV Ligature-resistant Temp/Pressure-balancing Mixing Valve ▼ LRFX Ligature-resistant Quick Disconnect Hand Held Shower ▼ TPV Temperature/Pressure-balancing Mixing Valve ▼ LRFX Ligature-resistant Quick Disconnect Hand Held Shower ▼ TPV Ligature-resistant Disconnect Hand Held Shower ▼ TPV Ligature-resistant Disconnect Hand Held Shower ▼ TPV Ligature-resistant Disconnect Hand Held Shower Temp. TPV Ligature-resistant Disconnect Hand Held Shower T		-
□ PML2 Dual Temp. Pneumatic Metering • ▼ □ E1L1 Single Temp. Electronic (Pick Control)* • ▼ □ E1L2 Dual Temp. Electronic (Pick Control)* • ▼ □ PMP		_
□ E1L1 Single Temp. Electronic (Pick Control)* • ▼		
□ F1L2 Dual Temp. Electronic (Pick Control)* • ▼		
□ PBV Pressure-Balancing Mixing Valve □ TPV Temperature/Pressure-balancing Mixing Valve □ Ligature-resistant Temp/Pressure-balancing Mixing Valve □ Ligature-resistant Quick Disconnect Hand Held Shower □ Ligature-resistant Temp/Pressure-balancing Mixing Valve □ Single Temp. Compression Valves Single Temp. Compression		
□ TPV Temperature/Pressure-Balancing Mixing Valve □ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve ▼ Store SvC □ DVC □ Dual Temp. Compression Valves □ TF24H □ Hard-wired Transformer, 110VAC to 24VAC* □ TF24P □ Plug-in Transformer, 110VAC to 24VAC* □ TF24P	☐ E1L2 Dual Temp. Electronic (Pick Control)* 9 	☐ FX Hand-held Flexshower Head (w/ quick disconnect,
TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve ▼ TO Other Options: DVC Dual Temp. Compression Valve DVC Dual Temp. Compression Valves TF24H Hard-wired Transformer, 110VAC to 24VAC* TF24P Plug-in Transformer, 110VAC to 24VAC* Inline Thermostatic Mixing Valve Catalog Section S5 for further information) 3.) Push Button Selection: PREH Ligature-resistant Pneumatic Push Buttons ♥ □ PZPB Ligature-resistant Pneumatic Push Buttons ♥ □ 1.5 GPM □ 1.5 GPM For security applications UMSC-2200 □ WUSC-2400 □ Pneutronic □ WMS II** Approved For Manufacturing By: Date:	☐ PBV Pressure-Balancing Mixing Valve	vacuum breaker, and (1) hook)
SVC Single Temp. Compression Valves Dual Temp. Compression Valves MA2 Valve Manifold Option (Pneumatic or Electronic Valves Only): (See the Manifold Option Page at the end of Catalog Section S5 for further information) 3.) Push Button Selection: Pneumatic or Electronic Valves Only: PZPB Ligature-resistant Pneumatic Push Buttons © Telephonic Push Buttons	☐ TPV Temperature/Pressure-Balancing Mixing Valve	☐ LRFX Ligature-resistant Quick Disconnect Hand Held Shower ®
□ DVC Dual Temp. Compression Valves □ MA2	☐ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve ♥	
MA2	☐ SVC Single Temp. Compression Valve	7.) Other Options:
(See the Manifold Option Page at the end of Catalog Section S5 for further information) 3.) Push Button Selection: Pneumatic or Electronic Valves Only: PBH Ligature-resistant Pneumatic Push Buttons other information in Electronic Push Buttons of the Electronic Push Button in E	☐ DVC Dual Temp. Compression Valves	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*
Catalog Section <u>S5</u> for further information) □ SD Surface Mounted Soap Dish (Mall Mounted) □ RSD2 Recessed Soap Dish (In-Wall Mounted) □ SLB24 24" Adjustable Slide Bar (for Flexshower, Wall Mounted) □ Other □ PZPB Ligature-resistant Piezo Electronic Push Buttons* • ♥ □ 2.5 GPM (Standard) □ 2.0 GPM □ 1.5 GPM □ PSPB Ligature-resistant Piezo Electronic Push Button): □ WUSC-2200 □ WUSC-2400 □ Pneutronic □ WMS II** **LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. □ Date: □ Company: □ Compan	☐ MA2 Valve Manifold Option (Pneumatic or Electronic Valves Only):	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
Catalog Section <u>S5</u> for further information) □ SD Surface Mounted Soap Dish (Mall Mounted) □ RSD2 Recessed Soap Dish (In-Wall Mounted) □ SLB24 24" Adjustable Slide Bar (for Flexshower, Wall Mounted) □ Other □ PZPB Ligature-resistant Piezo Electronic Push Buttons* • ♥ □ 2.5 GPM (Standard) □ 2.0 GPM □ 1.5 GPM □ PSPB Ligature-resistant Piezo Electronic Push Button): □ WUSC-2200 □ WUSC-2400 □ Pneutronic □ WMS II** **LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. □ Date: □ Company: □ Compan	(See the Manifold Option Page at the end of	TMV Inline Thermostatic Mixing Valve
3.) Push Button Selection: Pneumatic or Electronic Valves Only: PBH Ligature-resistant Pneumatic Push Buttons* © © PZPB Ligature-resistant Piezo Electronic Push Buttons* © © 4.) Flow Rates: 2.5 GPM (Standard) 2.0 GPM 1.5 GPM 5.) Electronic Control* (Must Use Electronic Push Buttons): WUSC-2200 WUSC-2400 Pneutronic WMS II** Approved For Manufacturing By: Date: Company: Company:	Catalog Section S5 for further information)	
Pneumatic or Electronic Valves Only: PBH	_ · · · · · · · · · · · · · · · · · · ·	RSD2 Recessed Soap Dish (In-Wall Mounted) 9 ®
Prieumatic or Electronic Valves Only: PBH	3.) Push Button Selection:	HL Hi-Lo (2 Hooks For Flexshower, Wall Mounted)
□ PBH Ligature-resistant Pneumatic Push Buttons ♥ □ □ PZPB Ligature-resistant Piezo Electronic Push Buttons* ♥ □ 4.) Flow Rates: □ 2.5 GPM (Standard) □ 2.0 GPM □ 1.5 GPM *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)	,	SLB24 24" Adjustable Slide Bar (for Flexshower, Wall Mounted)
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**(Req. remote accessible area for mounting) Description of the project of the p	Ligature-resistant riezo Electronic ridan Buttoria 🕹 🕹	*(Reg. 110V power through ground fault interrupter (GFCI) receptacle / breaker)
□ 2.5 GPM (Standard) □ 2.0 GPM □ 1.5 GPM 5.) Electronic Control* (Must Use Electronic Push Button): □ WUSC-2200 □ WUSC-2400 □ Pneutronic □ WMS II** **LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: □ Date: □ Company: □	1) Flow Pates:	
5.) Electronic Control* (Must Use Electronic Push Button): WUSC-2200 WUSC-2400 Pneutronic WMS II** **LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: Date: Company:		
5.) Electronic Control* (Must Use Electronic Push Button): WUSC-2200 WUSC-2400 Pneutronic WMS ** **LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: Date: Company:	= 2.5 of W (Standard) = 2.5 of W = 1.5 of W	* **
WUSC-2200 WUSC-2400 Pneutronic WMS II** **LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: Date: Company:	5) Electronic Control* (Must Use Electronic Push Button):	
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made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: Date: Company:	WOOD 2200 WOOD 2400 In Incutionic	This product is designed to minimize ligature points. While every effort has been
risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: Date: Company:		
Conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: Date: Company:		
Approved For Manufacturing By: Date: Company:		
	Approved For Manufacturing By:	Date: Company:
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WBIS-FA - POSSIBLE FIXTURE CONFIGURATIONS:



visit our website at www.willoughby-ind.com

5105 West 78th Street • Indianapolis, IN. 46268 (317) 875-0830 • Fax: (317) 875-0837 • (800) 428-4065



VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.

WILLDIIGHRY

WBIS-FA-ADA Series ADA-Compliant Front Mounted Built-In Shower



Recommended Specifications

ADA-Compliant, Front Mounted Built-In Shower shall be: Willoughby Model No. **WBIS-FA-ADA** (Select from model number and options list on next page)

Shower head and valve push button face plates shall be fabricated from 14 gauge, Type 304 stainless steel with exposed surfaces polished to a #4 satin finish.

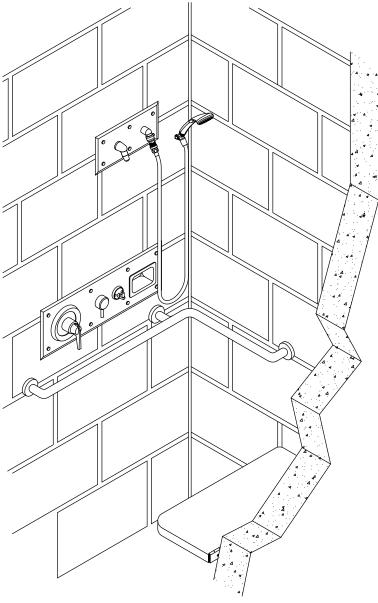
Standard equipment shall include:

© Rev. 7/2023

- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)

Anchoring of stainless steel panels shall be from the front. Wall anchors by others.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).



LEFT HAND CONTROL FIXTURE SHOWN (Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an ADA-Compliant, Front Mounted Built-In Shower with left hand controls, temp/pressure-balancing mixing valve, diverter valve, standard 2.5 GPM flow rate, APS adjustable vandal-resistant and FX Flexshower shower heads, S/S folding shower seat, two wall grab bar, and recessed soap dish

Use the following Willoughby Model Number:
WBIS-FA-ADA-L-TPV-DV-2.5-APS-FX-FSS-GB3318-RD



WARNING: Cancer and Reproductive Harm

- www.P65Warnings.ca.gov

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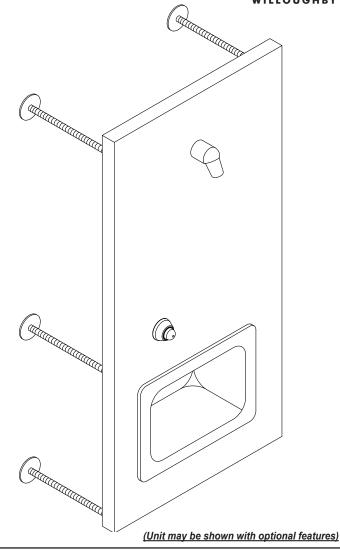
S5-7

1) B. W. 1111 1	
1.) Base Model Number:	8.) Shower Head Selection:
☐ WBIS-FA-ADA ADA-Compliant, Front Mounted Built-In Shower	APS Adjustable Vandal-resistant Shower Head
- · · · · · · · · · · · · · · · · · · ·	□ NPS Non-Adjustable Vandal-resistant Shower Head 9
2.) Panel Orientation (Must Specify):	☐ UBJ Universal Ball Joint Shower Head
L Left Hand Controls	☐ LBJ Lockable Ball Joint Shower Head
	_
R Right Hand Controls	
	☐ LRSH Ligature-resistant Shower Head, WaterSense Labeled Insert
3.) Valve Selection:	(1.5 GPM & 2.0 GPM Flow Rate only) ®
NV No Valve	☐ FX Hand-held Flexshower Head (w/ quick disconnect,
☐ PML1 Single Temp. Pneumatic Metering ⑤ ⑤	vacuum breaker, and (1) hook)
☐ PML2 Dual Temp. Pneumatic Metering ⑤ ⑤	☐ LRFX Ligature-resistant Quick Disconnect Hand Held Shower ♥
☐ E1L1 Single Temp. Electronic (Pick Control)* ⑤ ⑤	☐ 2HD Dual Fixed Shower Heads ⑤
☐ E1L2 Dual Temp. Electronic (Pick Control)* 🧸 🖫	
☐ PBV Pressure-Balancing Mixing Valve	9.) Optional Shower Seat:
☐ TPV Temperature/Pressure-Balancing Mixing Valve	☐ FSS Stainless Steel Folding Shower Seat ⊙
☐ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve ♥	☐ PFSS Padded Stainless Steel Folding Shower Seat
SVCL Single Temp. Compression Valve (w/ ADA lever handle)	☐ PHSS Phenolic Folding Shower Seat
	The lone Folding Charles Coak
	10 \ Other Ontions:
MA2 Valve Manifold Option (Pneumatic or Electronic Valves Only):	10.) Other Options:
(See the Manifold Option Page at the end of	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
Catalog Section <u>S5</u> for further information)	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
	☐ TMV Inline Thermostatic Mixing Valve
4.) Diverter Valve:	☐ HL Hi-Lo (2 Hooks For Flexshower)
DV Diverter Valve	☐ SLB24 24" Adjustable Slide Bar (for Flexshower, Wall Mounted)
□ DVLR Ligature-resistant Diverter Valve ®	☐ SD Surface Mounted Soap Dish
☐ PML1-MA2 Two Single Temp. Pneumatic Metering Valves ♥	RD Recessed Mounted Soap Dish S ®
(Used to divert water flow to either upper, lower, or both	<u> </u>
	-
shower heads; for use with Mixing Valve options above	*(Reg. 110V power through ground fault interrupter (GFCI) receptacle / breaker)
	, , , , , , , , , , , , , , , , , , , ,
5.) Push Button Selection:	**(Req. remote accessible area for mounting)
Pneumatic or Electronic Valves Only:	For security applications
☐ PBH Ligature-resistant Pneumatic Push Buttons ⑤ ⑤	Ligature-resistant option**
☐ PZPB Ligature-resistant Piezo Electronic Push Buttons* ⑤ ⑤	
	**LIGATURE-RESISTANT DISCLAIMER
6.) Flow Rates:	This product is designed to minimize ligature points. While every effort has been made to reduce
2.5 GPM (Standard)	the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant
_	products by Willoughby Industries are to be used in conjunction with, not as a replacement for,
7.) Electronic Control* (Must Use Electronic Push Button):	trained professionals.
☐ WUSC-2200 ☐ WUSC-2400 ☐ Pneutronic ☐ WMS II**	·
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Wall Thickness: Wall Type: 14 GA. S/S MOUNTING PLATES (UPPER AND LOWER)	72" AFF
Wall Thickness: Wall Type: 14 GA. S/S MOUNTING PLATES (UPPER AND LOWER)	AFF AFF WBIS-ADA-FA W/ (TPV) MIXING VALVE.
Wall Thickness: Wall Type: 14 GA. S/S MOUNTING PLATES (UPPER AND LOWER)	T2" AFF AFF WBIS-ADA-FA W/ (TPV) MIXING VALVE. (DV) DIVERTER VALVE. (APS) SHOWER HEAD.
Wall Thickness: Wall Type: 14 GA. S/S MOUNTING PLATES (UPPER AND LOWER)	72" AFF AFF WBIS-ADA-FA W/ (TPV) MIXING VALVE, LEXSHOWER (DV) DIVERTER VALVE (APS) SHOWER HEAD
Wall Type: 14 GA. S/S MOUNTING PLATES (UPPER AND LOWER) 14 GA. S/S MOUNTING PLATES (UPPER AND LOWER) TUBING/SUPPLY FROM VALVE TO SHOWER HEAD TUBING/SUPPLY FROM VALVE TO SHOWER HEAD UPPER AND LOWER MOUNTING PLATE DIMENSIONS ARE FIXTURE SPECIFIC, AND DEPEND ON SELECTED OPTIONS ADA-COMPLIANT CONTROL AREA WATER SUPPLIES; SUPPLY ORIENTATION (BOTTOM, TOP, BACK) WILL BE INSTALLATION SPECIFIC WILL BE INSTALLATION SPECIFIC NOTE: CUTOUTS REQUIRED FOR ALL MOUNTING PLATES NOTE: CUTOUTS REQUIRED FOR ALL MOUNTING PLATES NOTE: CERTAIN ACCESSORIES SUG DISHES, GRAB BARS, AND FI	T2" AFF AFF WBIS-ADA-FA W/ (TPV) MIXING VALVE. (DV) DIVERTER VALVE. (APS) SHOWER HEAD.

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WRS Series Rear Mounted Recessed Shower Panel



Recommended Specifications

Rear Mounted Recessed Shower Panel shall be: Willoughby Model No. **WRS** (Select from model number and options list on next page)

Shower panel shall be fabricated from 14 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Shower valve (Select from Valve Selection options list)
- (NPS) non-adjustable penal shower head

Anchoring shall be by standard 6-point system: 1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit requires chase area for installation and maintenance.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Rear Mounted Recessed Shower Panel with single temp. pneumatic metering valve, standard ligature-resistant pneumatic push button, standard 2.5 GPM flow rate, standard (NPS) shower head, in-line thermostatic mixing valve, and recessed mounted soap dish

Use the following Willoughby Model Number:
WRS-PML1-PBH-2.5GPM-NPS-TMV-RD

WARNING: Can

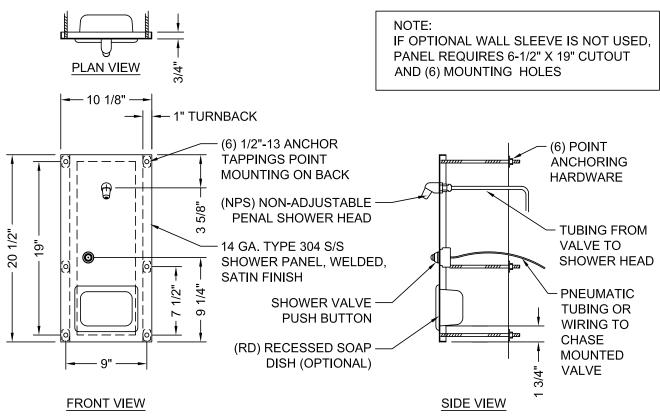
WARNING: Cancer and Reproductive Harm

- www.P65Warnings.ca.gov



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APS Adjustable Penal Shower Head Ligature-resistant Shower Head, WaterSense Labeled Insert Ligature-resistant Shower Head only The Ligature-resistant Shower Head Page Value Ligature-resistant Shower Head Page Value Ligature-resistant Mixing Valve Ligature-resistant PiovAc to 24VAC* The Plug-in Transformer, 110VAc to 24VAC* The Plug-in Transformer, 110VAc to 24VAC* RD Recessed Mounted Soap Dish Water Mixing Valve Page Valv	,	lodel Number:	o.) Silowe	r Head Selection:		
2.) Valve Selection: NV No Valve (1.5 GPM & 2.0 GPM Riow Rate only) v PML1 Single Temp. Pneumatic Metering v PML2 Dual Temp. Pneumatic Metering v E11.1 Single Temp. Electronic (Pick Control)* v E11.2 Dual Temp. Electronic (Pick Control)* v E11.3 Dual Temp. Electronic (Pick Control)* v E11.4 Dual Temp. Electronic (Pick Control)* v E11.5 Electronic Valves Only: PBH Ligature-resistant Pneumatic or Electronic Valves Only: PBH Ligature-resistant Pneumatic Push Buttons v Other	WRS	Rear Mounted Recessed Shower Panel	■ NPS	Non-adjustable Penal Shower Head (Standard) 9		
NV No Valve			APS	Adjustable Penal Shower Head		
□ PML1 Single Temp. Pneumatic Metering ● ▼ □ CSH Ligature-resistant Shower Head ● ▼ □ PML2 Dual Temp. Pneumatic Metering ● ▼ □ PML2 Dual Temp. Electronic (Pick Control)* ● ▼ □ PML2 Dual Temp. Electronic (Pick Control)* ● ▼ □ TMV In-line Thermostatic Mixing Valve Valve Manifold Option: □ TF24H Hard-wired Transformer, 110VAC to 24VAC* □ TF24H Plug-in Transformer, 110VAC to 24VAC* □ RD Recessed Mounted Soap Dish ● ▼ □ RD Recessed Mounted Soap Dish ● ■ □ RD Rec	2.) Valve S	Selection:	LRSH	Ligature-resistant Shower Head, WaterSense Labeled Insert		
□ PML2 Dual Temp. Pneumatic Metering ● ▼ □ E1L2 Dual Temp. Electronic (Pick Control)* ● ▼ □ E1L2 Dual Temp. Electronic (Pick Control)* ● ▼ □ E1L2 Dual Temp. Electronic (Pick Control)* ● ▼ □ TMV In-line Thermostatic Mixing Valve □ TF24H Hard-wired Transformer, 110VAC to 24VAC* □ TF24P Plug-in Transformer, 110VAC to 24VAC* □ RD Recessed Mounted Soap Dish ● ▼ □ Catalog Section SS for further information) □ MA2 □ NS Wall Sleeve (Requires Accessible Chase) □ MT Wall Template □ Other □ Preumatic or Electronic Valves Only: □ BBH Ligature-resistant Pneumatic Push Buttons ● ▼ □ PZPB Ligature-resistant Prezo Electronic Push Buttons* ● ▼ □ 2.0 GPM □ 1.5 GPM □ 1.5 GPM □ 1.5 GPM □ Must Use Electronic Push Button): □ WUSC-2200 □ WUSC-2400 □ Pneutronic □ WMS II Approved For Manufacturing By: □ Date: □ Company: □ Date: □ Company: □ Compan	□NV	No Valve		(1.5 GPM & 2.0 GPM Flow Rate only)		
□ PML2 Dual Temp. Pneumatic Metering ● ▼ □ E1L1 Single Temp. Electronic (Pick Control)* ● ▼ □ E1L2 Dual Temp. Electronic (Pick Control)* ● ▼ □ Valve Manifold Option: Pneumatic or Electronic Valves Only: (See the Manifold Option Page at the end of Catalog Section SS for further information) □ MA2 3.) Push Button Selection: □ Pneumatic or Electronic Valves Only: □ SD Surface Mounted Soap Dish □ WS Wall Sleeve (Requires Accessible Chase) □ MT Wall Template □ Other □ Other □ Other □ PZPB Ligature-resistant Pneumatic Push Buttons ● ▼ □ Z.5 GPM (Standard) □ 2.0 GPM □ 1.5 GPM □ 1.5 GPM □ Must Use Electronic Push Button): □ WUSC-2200 □ WUSC-2400 □ Pneutronic □ WMS II Approved For Manufacturing By: □ Date: □ Company: □ Date: □ Company: □ Company: □ Date: □ Company: □ Company: □ Date: □ Company:	D PML1	Single Temp. Pneumatic Metering 9 ®	□ CSH	Ligature-resistant Shower Head 9 ®		
□ E1L1 Single Temp. Electronic (Pick Control)*	PML2	Dual Temp. Pneumatic Metering 😉 🖫				
Valve Manifold Option: Pneumatic or Electronic Valves Only: (See the Manifold Option Page at the end of Catalog Section S5 for further information) MA2 3.) Push Button Selection: PREM Ligature-resistant Pneumatic Push Buttons © TPZPB Ligature-resistant Piezo Electronic Push Buttons © Ligature-resistant option** 4.) Flow Rates: 2.5 GPM (Standard) 2.0 GPM 1.5 GPM Approved For Manufacturing By: Date: Company: TF24H Hard-wired Transformer, 110VAC to 24VAC* TPZPP Plug-in Transformer, 110VAC to 24VAC* TREAP Plug-in Transformer, 110VAC to 24VAC* TRANS Page See Mounted Soap Dish WS Wall Sleeve (Requires Accessible Chase) WS Usleeve (Requires Accessible Chas	E1L1		7.) Option	s:		
Valve Manifold Option: ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* Pneumatic or Electronic Valves Only: ☐ TF24P Plug-in Transformer, 110VAC to 24VAC* (See the Manifold Option Page at the end of Catalog Section S5 for further information) ☐ RD Recessed Mounted Soap Dish ▼ ☐ MA2 ☐ WS Wall Sleeve (Requires Accessible Chase) ☐ WS Wall Sleeve (Requires Accessible Chase) 3.) Push Button Selection: ☐ Other ☐ Other <td> E1L2</td> <td>Dual Temp. Electronic (Pick Control)* 9 ®</td> <td>□ TMV</td> <td>In-line Thermostatic Mixing Valve</td>	E1L2	Dual Temp. Electronic (Pick Control)* 9 ®	□ TMV	In-line Thermostatic Mixing Valve		
(See the Manifold Option Page at the end of Catalog Section \$\frac{5}{25}\$ for further information) MA2 MA2 MA3.) Push Button Selection: Pneumatic or Electronic Valves Only: PBH Ligature-resistant Pneumatic Push Buttons \$\frac{9}{25}\$ PZPB Ligature-resistant Piezo Electronic Push Buttons \$\frac{9}{25}\$ (Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker \$\frac{9}{25}\$ For security applications \$\frac{9}{25}\$ (Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker \$\frac{9}{25}\$ For security applications \$\frac{9}{25}\$ Ligature-resistant option** 1.5 GPM 1.5 GPM 1.5 GPM Approved For Manufacturing By: Date: Date: Company:	Valve Mar	, , ,	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC*		
Catalog Section <u>S5</u> for further information) MA2 WS Wall Sleeve (Requires Accessible Chase) MT Wall Template Other Other Debt Ligature-resistant Pneumatic Push Buttons of the Ligature-resistant Piezo Electronic Push Buttons of the Ligature-resistant Option of the Ligature-resistant Piezo Electronic Push Buttons of the Ligature-resistant Piezo Electronic Push Buttons of the Ligature-Resistant Disclaims of Ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: Date: Company:	Pneumatio	or Electronic Valves Only:	☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*		
Catalog Section S5 for further information) MA2 WS Wall Sleeve (Requires Accessible Chase) MT Wall Template Other Pother Other PBH Ligature-resistant Pneumatic Push Buttons on the Ligature-resistant Piezo Electronic Push Buttons on the Ligature Piezo Electronic Push Button in the Piezo Electroni		(See the Manifold Option Page at the end of	RD RD	Recessed Mounted Soap Dish 9 ®		
MT Wall Template		•	☐ SD	Surface Mounted Soap Dish		
3.) Push Button Selection: Pneumatic or Electronic Valves Only: PBH Ligature-resistant Pneumatic Push Buttons PZPB Ligature-resistant Piezo Electronic Push Buttons* For security applications Ligature-resistant option** 4.) Flow Rates: 2.5 GPM (Standard) 2.0 GPM 1.5 GPM 1.5 GPM 5.) Electronic Controls* (Must Use Electronic Push Button): WUSC-2200 WUSC-2400 Pneutronic WMS II Approved For Manufacturing By: Date: Company:	☐ MA2	• – ,	■ WS	Wall Sleeve (Requires Accessible Chase)		
Pneumatic or Electronic Valves Only: □ PBH Ligature-resistant Pneumatic Push Buttons ♥ □ PZPB Ligature-resistant Piezo Electronic Push Buttons* ♥ □ *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker, For security applications Ligature-resistant option** □ 2.5 GPM (Standard) □ 2.0 GPM □ 1.5 GPM □ 1.5 GPM □ 1.5 GPM □ 1.5 GPM Stelectronic Controls* (Must Use Electronic Push Button): □ WUSC-2200 □ WUSC-2400 □ Pneutronic □ WMS II Approved For Manufacturing By: □ Other *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker, *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker, *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker, *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker, *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker, *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker, *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker, *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker, *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker, *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker, *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker, *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker, *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker, *(Req. 110V power through ground fault interrupter (GFCI) receptacle / Breaker, *(Req. 110V power through ground fault interrupter (GFCI) receptacle / Breaker, *(Req. 110V power through ground fault interrupter (GFCI) receptacle / Breaker, *(Req. 110V power through ground fault interrupter (GFCI) receptacle / Breaker, *(Req. 110V power through ground fault interrupter (GFCI) receptacle / Breaker, *(Req. 110V power through ground fault interrupter (GFCI) receptacle / Brea	_		□ MT	Wall Template		
Pneumatic or Electronic Valves Only: PBH	3.) Push E	Button Selection:	Other			
*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker For security applications Ligature-resistant option** 1.5 GPM (Standard) 1.5 GPM 1.5 GPM This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker For security applications Ligature-resistant option** **LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: Date: *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker For security applications *Ligature-resistant option** **LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.						
4.) Flow Rates: 2.5 GPM (Standard) 2.0 GPM 1.5 GPM **LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: Date: Company:	□ PBH	Ligature-resistant Pneumatic Push Buttons				
4.) Flow Rates: 2.5 GPM (Standard) 2.0 GPM 1.5 GPM 1.5 GPM 5.) Electronic Controls* (Must Use Electronic Push Button): WUSC-2200 WUSC-2400 Pneutronic WMS II Approved For Manufacturing By: Date: Company:	PZPB	Ligature-resistant Piezo Electronic Push Buttons*	*(Req. 11	10V power through ground fault interrupter (GFCI) receptacle / breaker)		
2.5 GPM (Standard) 2.0 GPM 1.5 GPM This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: Date: Company:		3	, 11			
□ 2.0 GPM □ 1.5 GPM □ 1.5 GPM This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: Date: **LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.	4.) Flow R	ates:				
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made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: Date: Company:	☐ 2.0 GP	M	**LIGATURE-RESISTANT DISCLAIMER			
5.) Electronic Controls* (Must Use Electronic Push Button): WUSC-2200 WUSC-2400 Pneutronic WMS II Approved For Manufacturing By: Date: Company:	☐ 1.5 GP	M	This produ	This product is designed to minimize ligature points. While every effort has been		
Approved For Manufacturing By:						
Approved For Manufacturing By: Date: Company:	5.) Electronic Controls* (Must Use Electronic Push Button):		all risks. Ligature-Resistant products by Willoughby Industries are to be used in			
	☐ WUSC-2200 ☐ WUSC-2400 ☐ Pneutronic ☐ WMS II		conjunction	n with, not as a replacement for, trained professionals.		
	Annroy	ed For Manufacturing Rv	Date:	Company.		
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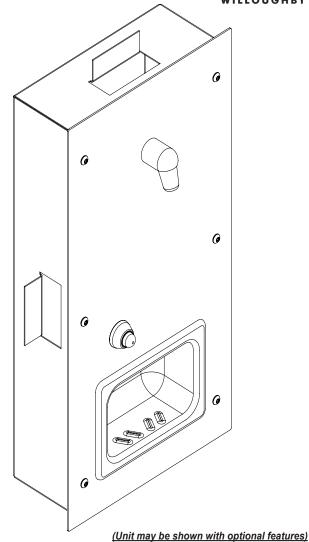
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WRS-FA Series Front Mounted Recessed Shower Panel



To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Front Mounted Recessed Shower Panel with single temp. pneumatic metering valve, standard ligature-resistant pneumatic push button, standard 2.5 GPM flow rate, standard (NPS) shower head, in-line thermostatic mixing valve, and recessed mounted soap dish

Use the following Willoughby Model Number: WRS-FA-PML1-PBH-2.5GPM-NPS-TMV-RD

Recommended Specifications

Front Mounted Recessed Shower Panel shall be: Willoughby Model No. **WRS-FA** (Select from model number and options list on next page)

Shower panel shall be fabricated from 14 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Mounting frame shall be fabricated from 18 gauge galvanized steel.

Standard equipment shall include:

- Shower valve (Select from Valve Selection options list)
- (NPS) non-adjustable penal shower head
- In-wall mounting frame

Shower panel shall attach to mounting frame with vandal resistant stainless steel screws. Unit requires no chase area for installation and maintenance.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).

WARNING: Cancer and Reproductive Harm
- www.P65Warnings.ca.gov

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6.) Shower Head Selection: 1.) Base Model Number: ■ WRS-FA Front Mounted Recessed Shower Panel ■ NPS Non-adjustable Penal Shower Head (Standard) 9 APS Adjustable Penal Shower Head UBJ 2.) Valve Selection: Universal Ball Joint Shower Head ■ NV No Valve LBJ Lockable Ball Joint Shower Head PML1 Single Temp. Pneumatic Metering 9 P ☐ CSH Ligature-resistant Shower Head 9 @ ☐ PML2 Dual Temp. Pneumatic Metering 6 @ Hand-held Flexshower Head (w/ quick disconnect, □ FX ☐ E1L1 Single Temp. Electronic (Pick Control)* 9 🛡 vacuum breaker, and (1) hook) ■ E1L2 Dual Temp. Electronic (Pick Control)* 6 @ □ LRSH Ligature-resistant Shower Head, WaterSense Labeled Insert ☐ PBV Pressure-Balancing Mixing Valve (1.5 GPM & 2.0 GPM Flow Rate only) 🛡 TPV Temperature/Pressure-Balancing Mixing Valve TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve ® 7.) Options: □ SVC Single Temp. Compression Valve ☐ TMV In-line Thermostatic Mixing Valve □ DVC ☐ TF24H Dual Temp. Compression Valves Hard-wired Transformer, 110VAC to 24VAC* ☐ TF24P Plug-in Transformer, 110VAC to 24VAC* 3.) Push Button Selection: ☐ RD Recessed Mounted Soap Dish 3 1 ☐ SD Pneumatic or Electronic Valves Only: Surface Mounted Soap Dish Ligature-resistant Pneumatic Push Buttons 9 🛡 □ PBH ☐ HL Hi-Lo (2 Hooks For Flexshower, Wall Mounted) □ PZPB Ligature-resistant Piezo Electronic Push Buttons* 9 @ ☐ SLB24 24" Adjustable Slide Bar (for Flexshower, Wall Mounted) □ Other Other 4.) Flow Rates: 2.5 GPM (Standard) 2.0 GPM *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) ☐ 1.5 GPM S For security applications Ligature-resistant option** 5.) Electronic Controls* (Must Use Electronic Push Button): ☐ WUSC-2200 ☐ WUSC-2400 ■ WMS II **LIGATURE-RESISTANT DISCLAIMER ☐ Pneutronic This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

Approved For Manufacturing By:______ Date: _____ Company:_____ Wall Type: ______

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9 1/2" PLAN VIEW	
10 1/2" 10 1/2" 8 1/4" 8 1/4" 8 1/4" 8 1/4" 8 1/2" FRAME	(4) 1" x 3" MASONRY ANCHOR TABS (NPS) NON-ADJUSTABLE PENAL SHOWER HEAD 72" A.F.F. 14 GA. TYPE 304 S/S FACE PLATE FACTORY-INSTALLED SHOWER VALVE PUSH BUTTON (RD) RECESSED SOAP DISH (OPTIONAL) - (6) 1/4"-20 x 3/4" S/S SECURITY SCREWS
FRONT VIEW	SIDE VIEW

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WRS-ADA Series ADA-Compliant Rear Mounted Recessed Shower Panel



Recommended Specifications

ADA-Compliant, Rear Mounted, Recessed Shower Panel shall be: Willoughby Model No. **WRS-ADA** (Select from model number and options list on next page)

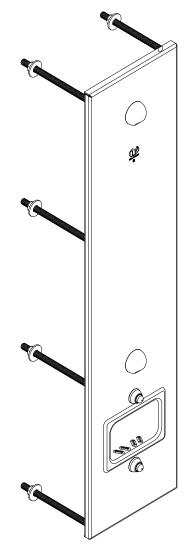
Shower panel shall be fabricated from 14 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)

Anchoring shall be by standard 8-point system: 1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit requires chase area for installation and maintenance.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Rear Mounted, Recessed Handicap Shower Panel w/ Hand Held Flexshower Head with left hand controls, single temp. pneumatic metering valves (manifolded), standard ligature-resistant pneumatic push buttons, standard 1.5 GPM flow rate, standard 2 (CSH) shower heads, and recessed mounted soap dish

Use the following Willoughby Model Number: WRS-ADA-PML1-MA2-PBH-1.5GPM-CSH-2HD-RD

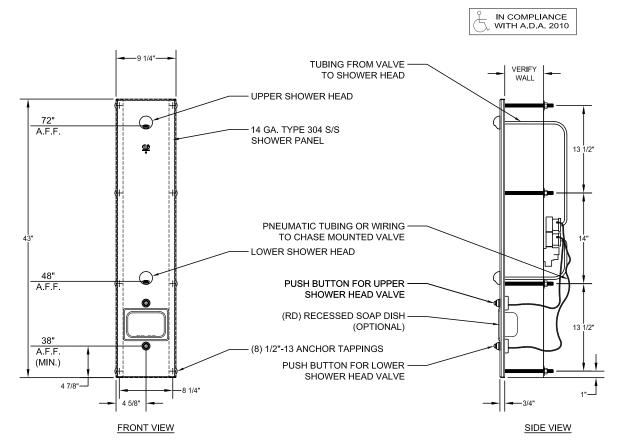
WARNING: Cancer and Reproductive Harm
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1.) Base Mo	del Number:		7.) Shower I	Head Selection:
■ WRS-AD	PΑ	ADA-Compliant, Rear Mounted, Recessed Shower Panel	□ APS	Adjustable Vandal-resistant Shower Head
			■ NPS	Non-Adjustable Vandal-resistant Shower Head §
2.) Panel O	rientation (Mi	ust Specify if Dual Temp. is Selected):	☐ UBJ	Universal Ball Joint Shower Head
□ L	Left Hand C	controls	LBJ	Lockable Ball Joint Shower Head
☐ R	Right Hand	Controls	☐ CSH	Ligature-resistant Shower Head §
			□ LRSH	Ligature-resistant Shower Head, WaterSense Labeled Insert
3.) Valve Se	lection:			(1.5 GPM & 2.0 GPM Flow Rate only)
☐ NV	No Valve		☐ FX	Hand-held Flexshower Head (w/ quick disconnect,
☐ PML1	Single Terr	np. Pneumatic Metering 9 ®		vacuum breaker, and (1) hook)
PML2	Dual Temp	. Pneumatic Metering 9 ©	☐ LRFX	Ligature-resistant Quick Disconnect Hand Held Shower ®
☐ E1L1	Single Ten	np. Electronic (Pick Control)*	☐ 2HD	Dual Fixed Shower Heads 9
☐ E1L2	Dual Temp	. Electronic (Pick Control)* 9 ®	_	
Valve Mani	fold Option:	,	8.) Options:	
Pneumatic of	or Electronic V	'alves Only:	☐ FSS	Fold-up Stainless Steel Shower Seat 6
	(See the Ma	anifold Option Page at the end of	☐ HL	Hi-Lo (2 Hooks For Flexshower, Wall Mounted)
	Catalog Se	ction S5 for further information)	☐ MT	Wall Template
☐ MA2	ū		☐ TMV	In-line Thermostatic Mixing Valve
_			☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC*
4.) Push Bu	tton Selectio	n:	☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*
	or Electronic V		☐ RD	Recessed Mounted Soap Dish S
□ PBH	Ligature-re	esistant Pneumatic Push Buttons § ©	SLB24	24" Adjustable Slide Bar (for Flexshower, Wall Mounted)
☐ PZPB	0	esistant Piezo Electronic Push Buttons* 🧿 🖫	□ SD	Surface Mounted Soap Dish
_	3		□ ws	Wall Sleeve (Requires Accessible Chase)
5.) Flow Ra	tes:		Other	, ,
☐ 2.5 GPM				
☐ 2.0 GPM			*(Reg. 110)	V power through ground fault interrupter (GFCI) receptacle / breaker)
☐ 1.5 GPM				ity applications
_				esistant option**
6.) Electron	ic Controls*	(Must Use Electronic Push Button):	•9	
☐ WUSC-2		☐ WUSC-2400 ☐ Pneutronic ☐ WMS II	**LIGATURE	-RESISTANT DISCLAIMER
_			This product	is designed to minimize ligature points. While every effort has been made to reduce the
				ligature points, this product does not eliminate all risks. Ligature-Resistant products by
				ndustries are to be used in conjunction with, not as a replacement for, trained
			professionals	
Approx	and For N	Appuracturing By:	Data	Company
		//anufacturing By:	Date	Company:
Wall T	hickness	: Wall Type:		

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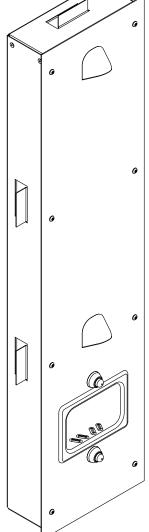
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WRS-FA-ADA Series ADA-Compliant Front Mounted Recessed Shower Panel





IN COMPLIANCE WITH A.D.A. 2010 & CBC 2016, 11B

Recommended Specifications

ADA-Compliant, Front Mounted, Recessed Shower Panel shall be: Willoughby Model No. **WRS-FA-ADA** (Select from model number and options list on next page)

Shower panel shall be fabricated from 14 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Mounting frame shall be fabricated from 18 gauge galvanized steel.

Standard equipment shall include:

- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- In-wall mounting frame

Shower panel shall attach to mounting frame with vandal resistant stainless steel screws. Unit requires no chase area for installation and maintenance.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).

To specify fixture and accessories, use the Model Number and Options page.

(Unit may be shown with optional features)

Example: To specify a Front Mounted, Recessed Handicap Shower Panel w/ Hand Held Flexshower Head with left hand controls, single temp. pneumatic metering valves(manifolded), standard ligature-resistant pneumatic push buttons, standard 2.0 GPM flow rate, standard 2 (LRSH) shower heads, in-line thermostatic mixing valve, and recessed mounted soap dish

Use the following Willoughby Model Number: WRS-FA-ADA-PML1-MA2-PBH-2.0GPM-LRSH-2HD-TMV-RD



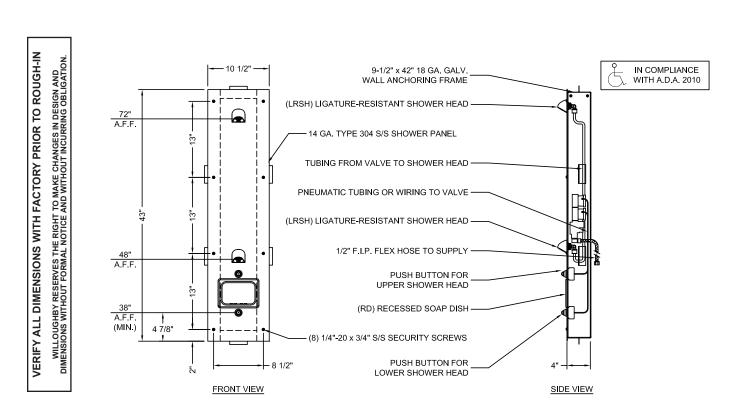
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Wall Thickness: Wall Type:	
Approved For Manufacturing By:	Date: Company:
6.) Electronic Controls* (Must Use Electronic Push Button): WUSC-2200 WUSC-2400 Pneutronic WMS II	This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.
1.3 GF W	**LIGATURE-RESISTANT DISCLAIMER
□ 2.0 GPM □ 1.5 GPM	₩ Ligature-resistant option
2.5 GPM (Standard)	
5.) Flow Rates:	*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)
□ PZPB Ligature-resistant Piezo Electronic Push Buttons* 9 ©	Other
□ PBH Ligature-resistant Pneumatic Push Buttons © □	☐ SLB24 24" Adjustable Slide Bar (for Flexshower, Wall Mounted)
Pneumatic or Electronic Valves Only:	SD Surface Mounted Soap Dish
4.) Push Button Selection:	RD Recessed Mounted Soap Dish 9 Recessed Mounted Soap Dish 9
	TF24P Plug-in Transformer, 110VAC to 24VAC*
□ MA2	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*
Catalog Section S5 for further information)	☐ TMV In-line Thermostatic Mixing Valve
(See the Manifold Option Page at the end of	☐ MT Wall Template
Pneumatic or Electronic Valves Only:	☐ HL Hi-Lo (2 Hooks For Flexshower, Wall Mounted)
☐ E1L2 Dual Temp. Electronic (Pick Control)*	8.) Options: ☐ FSS Fold-up Stainless Steel Shower Seat 9
☐ E1L1 Single Temp. Electronic (Pick Control)* 9 5	O \ O with a way
Dual Temp. Pneumatic Metering © ©	☐ 2HD Dual Fixed Shower Heads §
□ PML1 Single Temp. Pneumatic Metering	☐ LRFX Ligature-resistant Quick Disconnect Hand Held Shower ♥
☐ NV No Valve	vacuum breaker, and (1) hook)
3.) Valve Selection:	☐ FX Hand-held Flexshower Head (w/ quick disconnect,
	(1.5 GPM & 2.0 GPM Flow Rate only) 🛡
R Right Hand Controls	LRSH Ligature-resistant Shower Head, WaterSense Labeled Insert
☐ L Left Hand Controls	☐ CSH Ligature-resistant Shower Head 9 ®
2.) Panel Orientation (Must Specify if Dual Temp. is Selected):	☐ LBJ Lockable Ball Joint Shower Head
	☐ UBJ Universal Ball Joint Shower Head
ADA-Compilant, Front Mounted, Recessed Shower Faher	□ NPS Non-Adjustable Vandal-resistant Shower Head 9
1.) Base Model Number: WRS-FA-ADA ADA-Compliant, Front Mounted, Recessed Shower Panel	7.) Shower Head Selection: APS Adjustable Vandal-resistant Shower Head
1 \ Paga Madal Number:	7 \ Chawar Haad Calaction:



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WRS-ADA-WH Series Wide Housing ADA-Compliant Rear Mounted Recessed Shower Panel



Recommended Specifications

Wide Housing, ADA-Compliant, Rear Mounted, Recessed Shower Panel shall be: Willoughby Model No. WRS-ADA-WH (Select from model number and options list on next page)

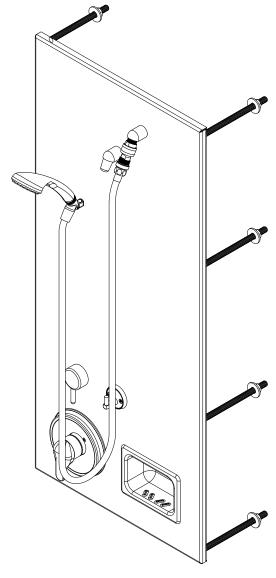
Shower panel shall be fabricated from 14 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)

Anchoring shall be by standard 8-point system: 1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit requires chase area for installation and maintenance.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).



LEFT HAND CONTROL FIXTURE SHOWN (Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Wide Housing, ADA-Compliant, Rear Mounted, Recessed Shower Panel with left hand controls, pressure-balancing mixing valve, diverter valve, 2.5 GPM flow rate, standard NPS and FX Flex-shower shower heads, and recessed soap dish

Use the following Willoughby Model Number: WRS-ADA-WH-L-TPV-DV-2.5-NPS-FX-RD



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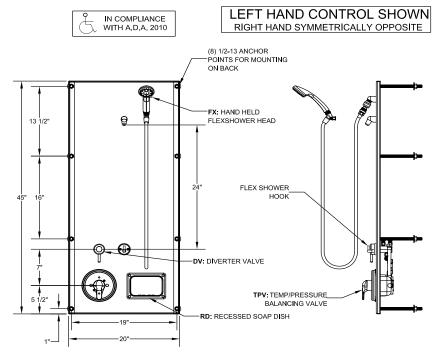


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1.) Base N	odel Number:		8.) Showe	er Head Selection:
☐ WRS-A	DA-WH	Wide Housing, ADA-Compliant, Rear	APS	Adjustable Vandal-resistant Shower Head
		Mounted, Recessed Shower Panel	■ NPS	Non-Adjustable Vandal-resistant Shower Head 9
			UBJ	Universal Ball Joint Shower Head
2.) Panel (Prientation (Must Spe	cify):	LBJ	Lockable Ball Joint Shower Head
□ L	Left Hand Controls	•	CSH	Ligature-resistant Shower Head 9 ®
□ R	Right Hand Controls		☐ LRSH	Ligature-resistant Shower Head, WaterSense Labeled Insert
			_	(1.5 GPM & 2.0 GPM Flow Rate only) ®
3.) Valve S	election:		□ FX	Hand-held Flexshower Head (w/ quick disconnect,
☐ NV	No Valve		_	vacuum breaker, and (1) hook)
PML1	Single Temp. Pneun	natic Metering 9 ©	☐ LRFX	Ligature-resistant Quick Disconnect Hand Held Shower ®
PML2	Dual Temp. Pneuma	atic Metering 6 ®	☐ 2HD	Dual Fixed Shower Heads 9
E1L1	Single Temp. Electro	onic (Pick Control)* 9 🖫	_	
☐ E1L2	Dual Temp. Electron	iic (Pick Control)* 😉 🖫	9.) Option	nal Shower Seat:
☐ PBV	Pressure-Balancing		☐ FSS	Stainless Steel Folding Shower Seat 9
☐ TPV	•	re-Balancing Mixing Valve	_	•
TPLR	•	emp/Pressure-balancing Mixing Valve ®	10.) Othe	r Options:
SVCL	•	pression Valve (w/ ADA lever handle)	☐ TF24H	·
DVCL	•	ression Valves (w/ ADA lever handle)	☐ TF24F	,
☐ MA2		tion (Pneumatic or Electronic Valves Only):	☐ TMV	Inline Thermostatic Mixing Valve
_	•	ld Option Page at the end of	☐ HL	Hi-Lo (2 Hooks For Flexshower)
	•	S5 for further information)	☐ MT	Wall Template
4.) Diverte	•		SLB24	•
☐ DV	Diverter \	/alve	SD	Surface Mounted Soap Dish
DVLR	Ligature-	resistant Diverter Valve 🖫	☐ RD	Recessed Mounted Soap Dish 9 ®
PML1-N	•	le Temp. Pneumatic Metering Valves 🖫	☐ ws	Wall Sleeve (Requires Accessible Chase)
_		divert water flow to either upper, lower, or both	Other	Trail diserte (Traquilles / 1888881218 Gillace)
	,	eads; for use with Mixing Valve options above)	_ ••.	
		,	*(Reg. 1:	10V power through ground fault interrupter (GFCI) receptacle / breaker)
5.) Push B	utton Selection:			curity applications
•	or Electronic Valves C	only:		e-resistant option**
□ PBH	Ligature-resistant Pr	neumatic Push Buttons ©	Ų Ligatai.	
☐ PZPB	•	ezo Electronic Push Buttons*	**I IGATU	RE-RESISTANT DISCLAIMER
_	3			uct is designed to minimize ligature points. While every effort has been made to
6.) Flow R	ates:			e possibility of ligature points, this product does not eliminate all risks.
,	M (Standard) 🔲 2.0) GPM □ 1.5 GPM		Resistant products by Willoughby Industries are to be used in conjunction with, not
	(-	•	cement for, trained professionals.
7.) Electro	nic Control* (Must Us	se Electronic Push Button):	аз а торіа	oement for, trained professionals.
☐ WUSC		The state of the s		
_ ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-2200 - W00	O 2400 II Theatroine II Wille II		
A	and Frankland Co.	under at Devi		
		ruring By:		ate: Company:
Wall T	hickness:	Wall Type:		

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WRS-FA-ADA-WH Series Wide Housing ADA-Compliant Front Mounted Recessed Shower Panel



Recommended Specifications

Wide Housing, ADA-Compliant, Front Mounted, Recessed Shower Panel shall be: Willoughby Model No. WRS-FA-ADA-WH (Select from model number and options list on next page)

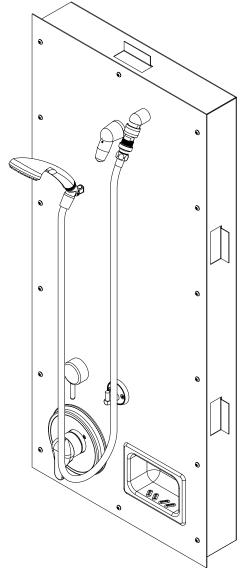
Shower panel shall be fabricated from 14 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. In-wall mounting frame shall be fabricated from 18 gauge galvanized steel.

Standard equipment shall include:

- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- In-wall mounting frame

Shower panel shall attach to in-wall mounting frame with vandal resistant stainless steel screws. Shower unit shall be factory assembled, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).



LEFT HAND CONTROL FIXTURE SHOWN (Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Wide Housing, ADA-Compliant, Front Mounted, Recessed Shower Panel with left hand controls, pressure-balancing mixing valve, diverter valve, 2.5 GPM flow rate, APS adjustable vandal-resistant and FX Flexshower shower heads, and recessed soap dish

Use the following Willoughby Model Number: WRS-FA-ADA-WH-L-PBV-DV-2.5-APS-FX-RD

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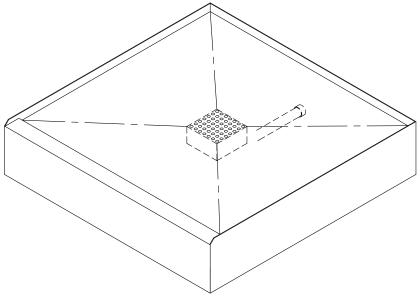
MODEL MOMB	LIVAND OF HONO.
1.) Base Model Number:	8.) Shower Head Selection:
☐ WRS-FA-ADA-WH Wide Housing, ADA-Compliant, Front	APS Adjustable Vandal-resistant Shower Head
Mounted, Recessed Shower Panel	☐ NPS Non-Adjustable Vandal-resistant Shower Head ⊙
O) Denot Orientation (Mont Oriental)	UBJ Universal Ball Joint Shower Head
2.) Panel Orientation (Must Specify): L Left Hand Controls	□ LBJ Lockable Ball Joint Shower Head □ CSH Ligature-resistant Shower Head 9 ®
R Right Hand Controls	☐ LRSH Ligature-resistant Shower Head, WaterSense Labeled Insert
Tright Hand Condois	(1.5 GPM & 2.0 GPM Flow Rate only)
3.) Valve Selection:	FX Hand-held Flexshower Head (w/ quick disconnect,
NV No Valve	vacuum breaker, and (1) hook)
☐ PML1 Single Temp. Pneumatic Metering ⑤ ⑤	☐ LRFX Ligature-resistant Quick Disconnect Hand Held Shower □
☐ PML2 Dual Temp. Pneumatic Metering ⑤ ♥	☐ 2HD Dual Fixed Shower Heads 9
☐ E1L1 Single Temp. Electronic (w/ Pick Control)*	0 \ 0 - 6 1 Oh 0 6 -
□ E1L2 Dual Temp. Electronic (w/ Pick Control)*	9.) Optional Shower Seat: ☐ FSS Stainless Steel Folding Shower Seat Output Description:
☐ TPV Temperature/Pressure-Balancing Mixing Valve	☐ PFSS Padded Stainless Steel Folding Shower Seat
☐ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve ♥	☐ PHSS Phenolic Folding Shower Seat
SVCL Single Temp. Compression Valve (w/ ADA lever handle)	
☐ DVCL Dual Temp. Compression Valves (w/ ADA lever handle)	10.) Other Options:
MA2 Valve Manifold Option (Pneumatic or Electronic Valves Only):	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
(See the Manifold Option Page at the end of	TF24P Plug-in Transformer, 110VAC to 24VAC*
Catalog Section <u>S5</u> for further information)	☐ TMV Inline Thermostatic Mixing Valve ☐ HL Hi-Lo (2 Hooks For Flexshower)
4.) Diverter Valve: Diverter Valve Diverter Valve	☐ SLB24 24" Adjustable Slide Bar (for Flexshower)
□ DVLR Ligature-resistant Diverter Valve ♥	SD Surface Mounted Soap Dish
☐ PML1-MA2 Two Single Temp. Pneumatic Metering Valves ᠍	RD Recessed Mounted Soap Dish 🤡 🖫
(Used to divert water flow to either upper, lower, or both	☐ Other
shower heads; for use with Mixing Valve options above)	☐ Other
	± (2 440)
5.) Push Button Selection:	* (Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)
Pneumatic or Electronic Valves Only: ☐ PBH Ligature-resistant Pneumatic Push Buttons ♀ ♥	 ⑤ For security applications ⑫ Ligature-resistant option**
☐ PZPB Ligature-resistant Piezo Electronic Push Buttons*	Ligaturo-resistant option
_ · -·g · · · · · · · · · · · ·	**LIGATURE-RESISTANT DISCLAIMER
6.) Flow Rates:	This product is designed to minimize ligature points. While every effort has been made to reduce
☐ 2.5 GPM (Standard) ☐ 2.0 GPM ☐ 1.5 GPM	the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant
	products by Willoughby Industries are to be used in conjunction with, not as a replacement for,
7.) Electronic Control* (Must Use Electronic Push Button): WUSC-2200 WUSC-2400 Pneutronic WMS II	trained professionals.
W000-2200	
A 15 M () ; B	D.1.
	Date: Company:
Wall Thickness: Wall Type:	
LEFT HAND CONTROL	
RIGHT HAND SYMMETRICALLY OPPOSITE	IN COMPLIANCE APS: ADJUSTABLE_
NO	WITH A.D.A. 2010 SHOWER HEAD
	(6) CONCRETE ANCHOR TABS—
	(O) CONCRETE ANCHOR TABS
ROUGH 0861 GAN AND 14-20 x 34-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1	-7/8" 18GA GALVANIZED FRAME"
SECURITY SCREWS	(SHIPPED SEPARATELY)
F ZZ	
R SN	3-1/2"
14d ×15	FX: HAND HELD
AFE.	FLEXSHOWER HEAD
10 XE	
A	
근 ː ː ː ː ː ː ː ː ː ː ː ː ː ː ː ː ː ː	FI EV CHAMED
 	FLEX SHOWER HOOK FRAME
	4404.000.00015
	—14GA S/S PANEL
SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN	——DV: DIVERTER VALVE
DIMENSIONS WITH FACTORY PRIOR BY RESERVES THE RIGHT TO MAKE CHANGES IN ITHOUT FORMAL NOTICE AND WITHOUT INCURR 2.4.1.1.2.4.1.4.4.4.4.4.4.4.4.4.4.4.4.4.	
	RD: RECESSED SOAP DISH
	<u>+</u>
5-1/2" •	3-1/2" PBV:PRESSURE- BALANCING BALANCING
WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITH FACTORY PRIOR TO ROUGH WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND 17-51-75. 2-11/2-2-1-7-1-7-1-7-1-7-1-7-1-7-1-7-1-7-1-7-	MIXING VALVE
₹ \$ 1 1 1 1 1 1 1 1 1 1	4"
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SB-Series Stainless Steel Shower Base



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an SB-Series stainless steel 36"x36"shower base with standard 2" F.I.P. elbow waste with integral strainer drain, back chase, and polished front and sides:

Use the following Willoughby Model Number:
SB-3636-EBD-BCS-A1

Recommended Specifications

Stainless steel shower base shall be: Willoughby Model No. SB-____

Shower base shall be fabricated from 14 gauge, Type 304 stainless steel, except shower base floor which shall be fabricated from 11 gauge, Type 304 stainless steel. The construction shall be all-welded, exposed stainless surfaces polished to a #4 satin finish, except shower floor which shall have a slip-resistant glass-bead-blast finish floor.

Shower base floor has an integral drain and an integral tiling flange. Shower drain is supplied as standard w/ integral strainer drain with elbow waste (2" F.I.P.) extending to chase wall. Underside of floor shall be sound deadened with fire resistant material.



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1.) Base Model Number:

□ SB-3030 30"x30" Stainless Steel Shower Base□ SB-3232 32"x32" Stainless Steel Shower Base

☐ SB-3636 36"x36" Stainless Steel Shower Base

2.) Drain Selection:

☐ EBD Elbow Waste for Cabinet Shower (2" FIP) w/ Integral Strainer Drain (Standard)

☐ ICD Inside Caulk Drain (2") w/ Removable Strainer

☐ PTD Integral 'P'-Trap Drain (2" FIP) w/ Removable Strainer

3.) Chase Wall Orientation:

□ BCS□ LCS□ RCS□ RCS□ RGS□ RGS□ RGS

4.) Fixture Exterior Finish Schedule:

(Based on Chase Wall Orientation; see the Options Pages at the end of Catalog Section for diagram)

For (BCS) Back Chase:

☐ A1 Polished Front, Left Side, & Right Side

☐ A2 Polished Front & Right Side
☐ A3 Polished Front & Left Side

☐ A3 Polished Front & Le
☐ A4 Polished Front only

For (LCS) Left Chase:

☐ B1 Polished Front, Back Side, & Right Side

☐ B2 Polished Front & Right Side

■ B3 Polished Front only

For (RCS) Right Chase:

☐ C1 Polished Front, Back Side, & Left Side

☐ C2 Polished Front & Left Side

C3 Polished Front only

5.) Options:

☐ LRD5 5" Ligature-resistant Drain Cover

(Requires Drain Modification for EBD Option) 🛡

■ Ligature-resistant option*

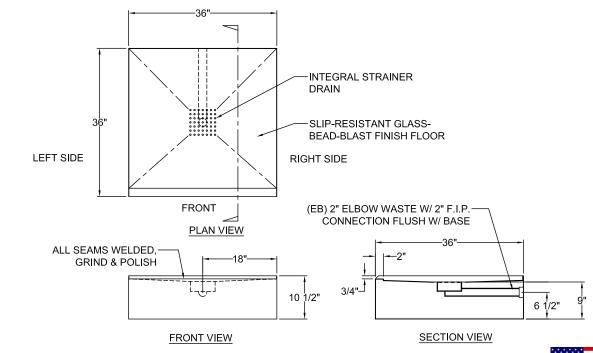
*LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		



S5-22

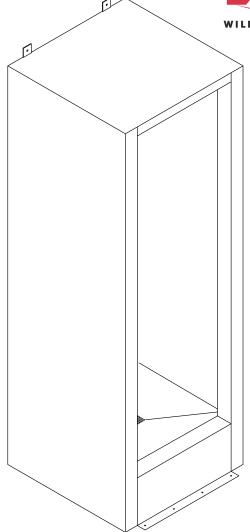


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Cabinet Shower





Please provide shower finish schedule upon ordering.

(Unit may be shown with optional features)

Recommended Specifications

Cabinet Shower shall be:
Willoughby Model No. ____**S-**___
(Select from model number and options list on next page)

Shower cabinet shall be fabricated from 14 gauge, Type 304 stainless steel. Shower floor shall be fabricated from 11 gauge, Type 304 stainless steel. The construction shall be *all welded* (unitized models only, not applicable to knockdown models), exposed stainless surfaces polished to a #4 satin finish, except shower floor which shall have a non-slip glass blast finish.

Standard equipment shall include:

- (NPS) non-adjustable penal shower head, mounted in front corner panel (plumbed through the side mullion, under shower floor, and to chase wall)
- (EBD) Integral strainer drain with elbow waste (2" F.I.P.) extending to chase wall

Unit requires chase area for installation and maintenance.

Underside of shower floor shall be sound deadened with fire resistant material.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a unitized 36" x 36" Cabinet Shower with left hand shower head, back chase/ valving, polished front, single temp. pneumatic metering valve, standard ligature-resistant pneumatic push button, 2.5 GPM flow rate, standard non-adjustable penal shower head and standard elbow waste drain

Use the following Willoughby Model Number: US-3636-L-BCS-A4-PML1-PBH-2.5GPM-NPS-EBD

To specify Knockdown Cabinet Shower: Select the "KS" model number from the list on the Model Number and Options page.

It is highly recommended that a floor drain be utilized at or near the shower entrance. The floor drain is to be provided by others.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).



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1.) Base I	Model Number:	5.) Valve S	election:	10.) Drain \$	Selection:
<u>Unitiz</u>	zed Cabinet Showers:	■ NV	No Valve	EBD	Elbow waste for Cabinet Shower (2" FIP)
☐ US-30	030 30"L x 30"W Cabinet Shower	PML1	Single Temp. Pneumatic Metering 9 🛡		(Standard)
■ US-32	232 32"L x 32"W Cabinet Shower	PML2	Dual Temp. Pneumatic Metering 6 0	PTD	Integral 'P'-Trap Cabinet Shower Drain (2" FIP)
☐ US-36	336 36"L x 36"W Cabinet Shower	E1L1	Single Temp. Electronic (Pick Control)* 9 🛡	■ NHD	No-hub Cabinet Shower Drain (2")
	kdown Cabinet Showers:	■ E1L2	Dual Temp. Electronic (Pick Control)* 6 🛡	ICD	Inside Caulk Cabinet Shower Drain (2")
☐ KS-30	30 30"L x 30"W Cabinet Shower	PBV	Pressure-Balancing Mixing Valve		
☐ KS-32	232 32"L x 32"W Cabinet Shower	□ TPV	Temp/Pressure-Balancing Mixing Valve	11.) Option	s:
☐ KS-36	336 36"L x 36"W Cabinet Shower	☐ TPLR	Ligature-resistant Temp/Pressure- Balancing Mixing Valve ■	☐ VG	Ventilation Grille (Specify Free Area and Location; Standard Grille Dimensions:
2.) Showe	er Head Orientation:	Valve Mani	fold Option:		8-3/4" x 8-3/4" with 15-3/4 in ² open area)
☐ L	Left Hand	Pneumatic	or Electronic Valves Only:	□ CP	Closure Panels
☐ R	Right Hand	(See th	e Manifold Option Page at the end of		(Specify Dimensions and Locations)
		Catalog	Section <u>S5</u> for further information)	STC	Sloping Top Closure
3.) Chase	Wall/Valve Orientation:	■ MA2		■ MD	Modesty Door
BCS	Back Chase				☐ L Hinged Left
LCS	Left Chase	6.) Push Bi	utton Selection:		R Hinged Right
RCS	Right Chase	Pneumatio	or Electronic Valves Only:	CR	Curtain Rod (Less Curtain and Hooks)
		PBH	Ligature-resistant Pneumatic	LRSC	Ligature-Reistant Curtain with Track
4.) Cabine	et Side Exterior Finish Schedule:		Push Buttons 9 19	DR	Drying Receptor
	(Based on Chase Wall Orientation;	PZPB	Ligature-resistant Piezo Electronic	☐ TH1	Release Towel Hook 6 ®
	see the Options Pages at the end of		Push Buttons* ⑤ ⑤	RD RD	Recessed Mounted Soap Dish 6 ®
	Catalog Section for diagram)			☐ SD	Surface Mounted Soap Dish
) Back Chase:	7.) Flow Ra		■ TMV	In-line Thermostatic Mixing Valve
□ A1	Polished Front, Left Side, & Right Side	_	1 (Standard)	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC*
☐ A2	Polished Front & Right Side	2.0 GPN		☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*
□ A3	Polished Front & Left Side	1.5 GPN	1	LRD5	5" Ligature-resistant Drain Cover 🖫
□ A4	Polished Front only				(Requires Drain Modification for EBD & NHD Options)
	Left Chase:	,	nic Controls*	Other	
B1	Polished Front, Back Side, & Right Side	,	se Electronic Push Button):	Other	
■ B2	Polished Front & Right Side	■ WUSC-2			
□ B3	Polished Front only	Pneutro	nic 🔲 WMS II	*(Req. 11)	0V power through ground fault interrupter
) Right Chase:				(GFCI) receptacle / breaker)
□ C1	Polished Front, Back Side, & Left Side		Head Selection:		
□ C2	Polished Front & Left Side	■ NPS	Non-adjustable Penal Shower		rity applications
□ C3	Polished Front only		Head (Standard) 9	Ligature-	resistant option**
		APS	Adjustable Penal Shower Head		
		☐ CSH	Ligature-resistant Shower Head 9	**LIGATUR	E-RESISTANT DISCLAIMER

LRSH

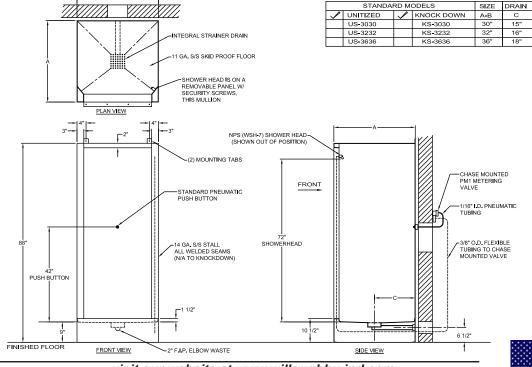
Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Type: ______

Ligature-resistant Shower Head, WaterSense

available only)

Labeled Insert (1.5 GPM & 2.0 GPM Flow Rate

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This product is designed to minimize ligature points. While every effort

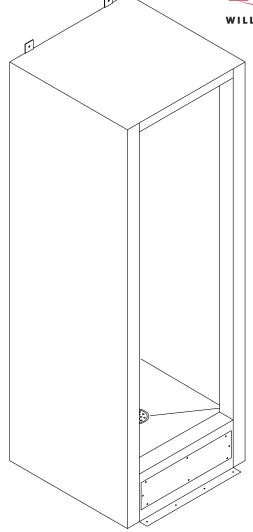
has been made to reduce the possibility of ligature points, this product

does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for,

trained professionals.

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Front Access Cabinet Shower



Please provide shower finish schedule upon ordering.
(Unit may be shown with optional features)

Recommended Specifications

Front Access Cabinet Shower shall be:
Willoughby Model No. ____S-___-FA
(Select from model number and options list on next page)

Shower cabinet shall be fabricated from 14 gauge, Type 304 stainless steel. Shower floor shall be fabricated from 11 gauge, Type 304 stainless steel. The construction shall be *all-welded* (unitized models only, not applicable to knockdown models), exposed stainless surfaces polished to a #4 satin finish, except shower floor which shall have a non-slip glass blast finish.

Standard equipment shall include:

- (NPS) non-adjustable penal shower head, mounted in a corner panel (plumbed to a top supply connection)
- (NHD) No-hub drain with removable strainer

Unit requires no chase area for installation and maintenance. Drain connection shall be through removable front access cover. Shower head and push button shall be mounted in a side mullion.

Underside of shower floor shall be sound deadened with fire resistant material.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a unitized 36" x 36" Front Access Cabinet Shower with left hand shower head/ valving, back wall with polished front, single temp. pneumatic metering valve, standard ligature-resistant pneumatic push button, 2.5 GPM flow rate, standard non-adjustable penal shower head and standard no-hub drain

Use the following Willoughby Model Number: US-3636-FA-L-A4-PML1-PBH-2.5GPM-NPS-NHD

To specify Knockdown Cabinet Shower: Select the "KS" model number from the list on the Model Number and Options page.

It is highly recommended that a floor drain be utilized at or near the shower entrance. The floor drain is to be provided by others.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).



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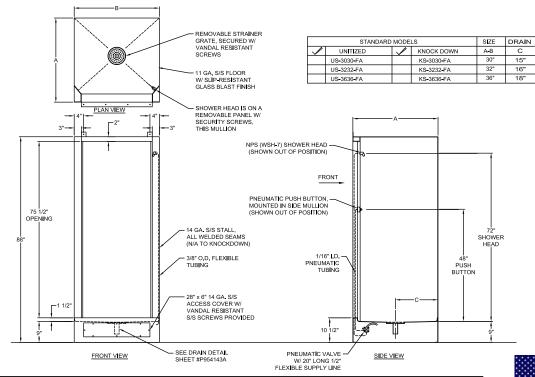
1.) Base Model No	umber:	4.) Valve S	election:	9.) Drain Se	election:
Unitized Fron	t Access Cabinet Showers:	☐ NV	No Valve	■ NHD	No-hub Cabinet Shower Drain (2") (Standard)
■ US-3030-FA	30"L x 30"W Cabinet Shower	PML1	Single Temp. Pneumatic Metering 6 🛡	ICD	Inside Caulk Cabinet Shower Drain (2")
■ US-3232-FA	32"L x 32"W Cabinet Shower	PML2	Dual Temp. Pneumatic Metering 9 ®		
■ US-3636-FA	36"L x 36"W Cabinet Shower	E1L1	Single Temp. Electronic (Pick Control)* 9 🛡	10.) Option	s:
Knockdown F	ront Access Cabinet Showers:	■ E1L2	Dual Temp. Electronic (Pick Control)* 9 🛡	VG	Ventilation Grille (Specify Free Area and
☐ KS-3030-FA	30"L x 30"W Cabinet Shower	PBV	Pressure-Balancing Mixing Valve		Location; Standard Grille Dimensions:
☐ KS-3232-FA	32"L x 32"W Cabinet Shower	■ TPV	Temp/Pressure-Balancing Mixing Valve		8-3/4" x 8-3/4" with 15-3/4 in ² open area)
☐ KS-3636-FA	36"L x 36"W Cabinet Shower	TPLR	Ligature-resistant Temp/Pressure-	□ CP	Closure Panels
			Balancing Mixing Valve		(Specify Dimensions and Locations)
2.) Shower Head/	Push Button Orientation:	Valve Man	ifold Option:	STC	Sloping Top Closure
_	Hand		or Electronic Valves Only:	□ MD	Modesty Door
R Righ	nt Hand	(See th	e Manifold Option Page at the end of		☐ L Hinged Left
		Catalog	g Section <u>S5</u> for further information)		R Hinged Right
3.) Cabinet Side E	Exterior Finish Schedule:	■ MA2		□ CR	Curtain Rod (Less Curtain and Hooks)
(Bas	ed on Chase Wall Orientation;			LRSC	Ligature-Reistant Curtain with Track
see t	he Options Pages at the end of	5.) Push B	utton Selection:	☐ TH1	Release Towel Hook S 🛡
Cata	log Section for diagram)	Pneumation	c or Electronic Valves Only:	RD RD	Recessed Mounted Soap Dish 9 @
For (BCS) Back V	<u>Vall:</u>	PBH	Ligature-resistant Pneumatic	□ SD	Surface Mounted Soap Dish
☐ A1 Polis	hed Front, Left Side, & Right Side		Push Buttons 9 🛡	□ TMV	In-line Thermostatic Mixing Valve
☐ A2 Polis	hed Front & Right Side	PZPB	Ligature-resistant Piezo Electronic	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC*
☐ A3 Polis	hed Front & Left Side		Push Buttons* □	☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*
☐ A4 Polis	hed Front only			☐ LRD5	5" Ligature-resistant Drain Cover 🛡
For (LCS) Left Wa	<u>all:</u>	6.) Flow Ra	ates:		(Requires Drain Modification for EBD & NHD Options)
☐ B1 Polis	hed Front, Back Side, & Right Side	2.5 GPN	M (Standard)	Other	
☐ B2 Polis	hed Front & Right Side	2.0 GPN	М	Other	
☐ B3 Polis	hed Front only	1.5 GPN	М		
For (RCS) Right V	<u>Vall:</u>			*(Req. 110	0V power through ground fault interrupter
☐ C1 Polis	hed Front, Back Side, & Left Side	7.) Electro	nic Controls*		(GFCI) receptacle / breaker)
☐ C2 Polis	hed Front & Left Side	(Must U	se Electronic Push Button):	S For secu	rity applications
C3 Polisi	hed Front only	■ WUSC-	2200	Ligature-	resistant option**
		Pneutro	nic 🔲 WMS II		
				**LIGATUR	E-RESISTANT DISCLAIMER
		8.) Shower	Head Selection:	This produc	t is designed to minimize ligature points. While every effort
		☐ NPS	Non-adjustable Penal Shower Head	has been m	ade to reduce the possibility of ligature points, this product
		_	(Standard) G	does not eli	minate all risks. Ligature-Resistant products by Willoughby
		☐ APS	Adjustable Penal Shower Head		re to be used in conjunction with, not as a replacement for,
		☐ CSH	Ligature-resistant Shower Head §	trained profe	
		LRSH	Ligature-resistant Shower Head, WaterSense		

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		

Ligature-resistant Shower Head, WaterSense Labeled Insert (1.5 GPM & 2.0 GPM Flow Rate

available only) 🛡

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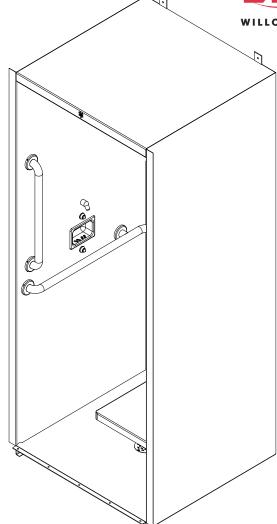
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ADA Compliant Transfer Cabinet Shower





Please provide shower finish schedule upon ordering.

(Unit may be shown with optional features)

IN COMPLIANCE WITH A.D.A. 2010

Recommended Specifications

ADA Compliant Transfer Cabinet Shower shall be: Willoughby Model No. ____S- 3636-HC (Select from model number and options list on next page)

Shower cabinet shall be fabricated from 14 gauge, Type 304 stainless steel. Shower floor shall be fabricated from 11 gauge, Type 304 stainless steel. The construction shall be *all-welded* (unitized models only, not applicable to knockdown models), exposed stainless surfaces polished to a #4 satin finish, except shower floor which shall have a non-slip glass blast finish.

Standard equipment shall include:

- (ICD) Inside caulk drain (2") with removable strainer
- (GB3318) 18" x 33" Horizontally-mounted L-shaped grab bar
- (GB24V) 24" Vertically-mounted grab bar
- (FSS) Fold-up stainless steel shower seat
- -1/2" ADA Threshold with anchor holes

Underside of shower floor shall be sound deadened with fire resistant material.

Unit requires chase area for installation and maintenance.

Unit requires 2" recess in floor.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a unitized 36" x 36" Handicap Cabinet Shower with left hand chase /shower head/valving, polished front, single temp, pneumatic metering valves, standard ligature-resistant pneumatic push buttons, 2.5 GPM flow rate, two non-adjustable penal shower heads, standard inside caulk drain, and recessed mounted soap dish.

Use the following Willoughby Model Number: US-3636-HC-L-B3-PML1-MA2-PBH-2.5GPM-NPS-2HD-ICD-RD

The location of the showerhead within the cabinet shower could result in potential water spray outside of the shower compartment. It is highly recommended that a floor drain be utilized at or near the shower entrance. The floor drain is to be provided by others.

Fixture shall be free-standing, no anchoring required.

To specify Knockdown Cabinet Shower: Select the "KS" model number from the list on the Model Number and Options page.



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	MODEL NO	MBEK AND OP II	ONS:	
1.) Base Model Number:	5.) Diverter Valve:		11.) Options:	:
Unitized Handicap Cabinet Shower:	DV DV	Diverter Valve	☐ VG	Ventilation Grille (Specify Free Area and
US-3636-HC 36"L x 36"W Cabinet Shower	DVLR	Ligature-resistant Diverter Valve		Location; Standard Grille Dimensions:
Knockdown Handicap Cabinet Shower: KS-3636-HC 36"L x 36"W Cabinet Shower	☐ PML1-MA2	Two Single Temp. Pneumatic Metering Valves in Lieu of	☐ CP	8-3/4" x 8-3/4" with 15-3/4 in ² open area) Closure Panels
and the same shower		Diverter Valve		(Specify Dimensions and Locations)
2.) Chase Wall/ Shower Head/Valve Orientation:			☐ STC	Sloping Top Closure
L Left Hand (LCS- Left Chase)	6.) Push Button Select		☐ MD	Modesty Door (Not ADA-Compliant)
Right Hand (RCS- Right Chase)	Pneumatic or Electro	onic vaives Only: -resistant Pneumatic		L Hinged Left R Hinged Right
3.) Cabinet Side Exterior Finish Schedule:	_	ttons 😉 🖫	☐ CR	Curtain Rod (Less Curtain and Hooks)
(Based on Chase Wall Orientation;		resistant Piezo Electronic	LRSC	Ligature-Reistant Curtain with Track
see the Options Pages at the end of	Push Bu	ttons* ⑤ ஶ	TH1	Release Towel Hook 9 ©
Catalog Section for diagram) For (LCS) Left Chase:	7.) Flow Rates:		☐ GBC ☐ RD	Grab Bar Closure Plate
B2 Polished Front & Right Side	2.5 GPM (Standard	1)	SD	Surface Mounted Soap Dish
B3 Polished Front only	2.0 GPM		☐ TMV	In-line Thermostatic Mixing Valve
For (RCS) Right Chase: C2 Polished Front & Left Side	☐ 1.5 GPM		☐ TF24H ☐ TF24P	Hard-wired Transformer, 110VAC to 24VAC* Plug-in Transformer, 110VAC to 24VAC*
C2 Polished Front & Left Side C3 Polished Front only	8.) Electronic Control	ls*	LFSS	Less Fold-up Stainless Steel Shower Seat
_ ,	(Must Use Electro	nic Push Button):		(NOTE: FSS Fold-up Shower Seat is required
4.) Valve Selection:	☐ WUSC-2200	☐ WUSC-2400	D. 1.05	for ADA Compliance)
NV No ValvePML1 Single Temp. Pneumatic Metering	☐ Pneutronic ☐ \	WMS II	☐ LGB3318	Less 18" x 33" Horizontally- mounted L-Shaped Grab Bar
☐ PML2 Dual Temp. Pneumatic Metering ⑤ ⑤	9.) Shower Head Sele	ection:	☐ LGB24V	Less 24" Vertically-mounted Grab Bar
☐ E1L1 Single Temp. Electronic (Pick Control)*	APS Adjustab	le Penal Shower Head	LRD5	5" Ligature-resistant Drain Cover 🛡
☐ E1L2 Dual Temp. Electronic (Pick Control)*	_ ,	ustable Penal Shower Head 9		
□ PBV Pressure-Balancing Mixing Valve□ TPV Temp/Pressure-Balancing Mixing Valve		-resistant Shower Head ⑤ ⑤ -resistant Shower Head, WaterSense	Uther _	
☐ TPLR Ligature-resistant Temp/Pressure-	_	Insert (1.5 GPM & 2.0 GPM Flow Rate	*(Req. 110\	/ power through ground fault interrupter
Balancing Mixing Valve 🛡	available	e only) 👨	` '	(GFCI) receptacle / breaker)
Valve Manifold Option:	_	eld Flexshower w/ Quick	ο Γοστοιο "	h, applications
Pneumatic or Electronic Valves Only: (See the Manifold Option Page at the end of		ect and Vacuum Breaker -resistant Quick Disconnect Hand Held		ty applications esistant option***
Catalog Section <u>S5</u> for further information)	Shower		÷ =:3a:a:010	F
☐ MA2	☐ 2HD Dual Fix	ed Shower Heads ⑤		E-RESISTANT DISCLAIMER
	10.) Drain Selection:			is designed to minimize ligature points. While every en made to reduce the possibility of ligature points, this
		aulk Cabinet Shower Drain (2")		not eliminate all risks. Ligature-Resistant products by
	(Standar	rd)		industries are to be used in conjunction with, not as a
			replacement	for, trained professionals.
Approved For Manufacturing By:			Co	mpany:
Wall Thickness:	Wall Type: _			
ļ -	36"			
	15 3/8" SEAT	IN COMPLIANCE WITH A.D.A. 201		: CESS IN FLOOR REQUIRED FOR
Z				LLATION
ROUGH- SIGN AND OBLIGATIO 36" 36" 36"	32" SEAT.			
		-(GB3318) 33" x 18" HORIZONTAL 2-WALL GR REMOVABLE STRAINER SECURED	AB BAR	
		W/ VANDAL RESISTANT SCREWS		
1 1/2"—	, , , , , ,	-11 GA. S/S SLIP-RESISTANT FLOOR	4" → - -1	4"
S S S S S S S S S S S S S S S S S S S	PLAN V I EW	(NPS) UPPER NON-ADJUSTABL	E—	
1/2" HIGH THRESHOLD	36" - 4" - 3"	PENAL SHOWER HEA	u \	
2"- -	OPENING 2"	(NPS) LOWER NON-ADJUSTABL		
VALVE-SIDE		PENAL SHOWER HEA	۰ \	
WALL WITH OPENINGS	/	14 GA. S/S STALL, ALL WELDED SEAMS (N/A TO KNOCKDOWN FIXTURES)	χ	
	l/]	
		LIGATURE-RESISTANT PUSH BUTTO	N	\
S WO MOUNTED CHASE MOUNTED	24"-	FOR UPPER (NPS) SHOWER HEAD VALV	E	Ab_da
NO SWE		(GB24V) 24" GRAB BAR	2 2	H H
	<u> </u>	FOR VERTICAL MOUNTING FRONT	<u> </u>	40" SOAP DISH 46" LOWER SHOWER HEAD UPPER SHOWER HEAD
		-(FSS) FOLD-UP S/S SHOWER SEAT		, SH, L
SY RI		LIGATURE-RESISTANT PUSH BUTTO		SOAP DISH
ALL I	-18"	FOR LOWER (NPS) SHOWER HEAD VALV	/	OAP 4 U
r All	\mathcal{A}	(RD) RECESSED SOAP DIS 1/2" HIGH THRESHOL		18"—— Ö
L = 2 + + + /// L		#2 Aport MikeShot		
FINISHED FLOOR	#	-(ICD) 2" CAULK DRAIN		Д
I> ⁰ I	EDONT VIEW	-(IOD) Z OAULK DRAIN	,	SIDE VIEW

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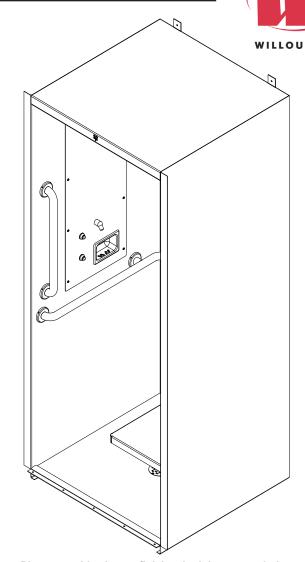
FRONT VIEW

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SIDE VIEW

S5-28

ADA Compliant Front Access Transfer Cabinet Shower



Please provide shower finish schedule upon ordering.

(Unit may be shown with optional features)

IN COMPLIANCE WITH A.D.A. 2010

Recommended Specifications

ADA Compliant Front Access Transfer Cabinet Shower shall be: Willoughby Model No. ____S- 3636-HC-FA (Select from model number and options list on next page)

Shower cabinet shall be fabricated from 14 gauge, Type 304 stainless steel. Shower floor shall be fabricated from 11 gauge, Type 304 stainless steel. The construction shall be *all-welded* (unitized models only, not applicable to knockdown models), exposed stainless surfaces polished to a #4 satin finish, except shower floor which shall have a non-slip glass blast finish.

Standard equipment shall include:

- (ICD) Inside caulk drain (2") with removable strainer
- (GB3318) 18" x 33" Horizontally-mounted L-shaped grab bar
- (GB24V) 24" Vertically-mounted grab bar
- (FSS) Fold-up stainless steel shower seat
- -1/2" ADA Threshold with anchor holes

Unit requires no chase area for installation and maintenance. Shower valve and shower head shall be mounted on removable access panel secured with security screws.

Underside of shower floor shall be sound deadened with fire resistant material.

Unit requires 2" recess in floor.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a unitized 36" x 36" Front Access Handicap Cabinet Shower with left hand shower head/push button/valving, polished front, single temp. pneumatic metering valves, standard ligature-resistant pneumatic push buttons, 2.5 GPM flow rate, two non-adjustable penal shower heads, standard inside caulk drain, and recessed mounted soap dish

Use the following Willoughby Model Number: US-3636-HC-FA-L-B3-PML1-MA2-PBH-2.5GPM-NPS-2HD-ICD-RD

The location of the showerhead within the cabinet shower could result in potential water spray outside of the shower compartment. It is highly recommended that a floor drain be utilized at or near the shower entrance. The floor drain is to be provided by others.

Fixture shall be free-standing, no anchoring required.

To specify Knockdown Cabinet Shower: Select the "KS" model number from the list on the Model Number and Options page.



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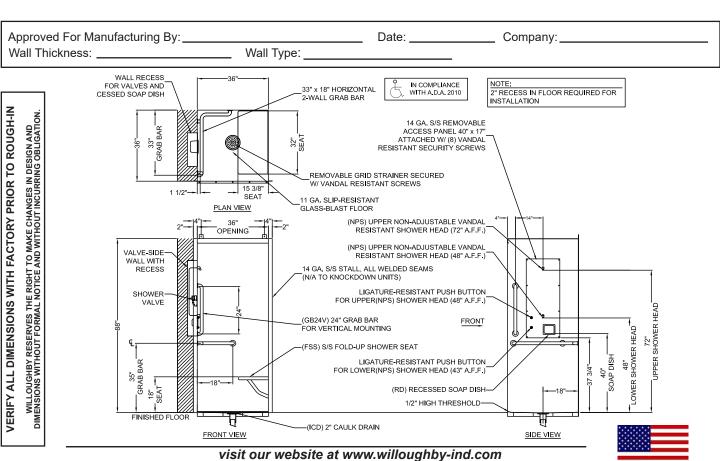
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1.) Base M	odel Number:	5.) Diverter	r Valve:		11.) Options:	:
	Unitized Handicap Front Access	☐ DV		Diverter Valve	☐ VG	Ventilation Grille (Specify Free Area and
	Cabinet Shower:	DVLR		Ligature-resistant Diverter Valve ®	_	Location; Standard Grille Dimensions:
☐ US-363	6-HC-FA 36"L x 36"W Cabinet Shower	☐ PML1-M	1A2	Two Single Temp. Pneumatic		8-3/4" x 8-3/4" with 15-3/4 in ² open area)
_	Knockdown Handicap Front Access	_		Metering Valves in Lieu of	☐ CP	Closure Panels
	Cabinet Shower:			Diverter Valve 🖫		(Specify Dimensions and Locations)
☐ KS-363	6-HC-FA 36"L x 36"W Cabinet Shower				☐ STC	Sloping Top Closure
		6.) Push Bu	utton Selec	tion:	■ MD	Modesty Door (Not ADA-Compliant)
2.) Shower	Head/Push Button/Valve Orientation:	Pneumatic	or Electro	nic Valves Only:		☐ L Hinged Left
□ L	Left Hand	PBH	Ligature-	resistant Pneumatic		R Hinged Right
□ R	Right Hand		Push Bu	ttons 6 🛡	□ CR	Curtain Rod (Less Curtain and Hooks)
		PZPB	Ligature-	resistant Piezo Electronic	LRSC	Ligature-Reistant Curtain with Track
3.) Cabinet	Side Exterior Finish Schedule:		Push Bu	ttons* 9 🛡	☐ TH1	Release Towel Hook & ®
	(Based on Chase Wall Orientation;				☐ GBC	Grab Bar Closure Plate 9 ®
	see the Options Pages at the end of	7.) Flow Ra	ates:		RD	Recessed Mounted Soap Dish 9 \$
	Catalog Section for diagram))	2.5 GPM	/ (Standard)		SD	Surface Mounted Soap Dish
For (LCS) I	<u>_eft Wall:</u>	2.0 GPM	Л		☐ TMV	In-line Thermostatic Mixing Valve
■ B2	Polished Front & Right Side	1.5 GPM	Л		☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC*
■ B3	Polished Front only				☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*
For (RCS)	Right Wall:	8.) Electron	nic Control	5*	□ LFSS	Less Fold-up Stainless Steel Shower Seat
□ C2	Polished Front & Left Side			ic Push Button):		(NOTE: FSS Fold-up Shower Seat is required
☐ C3	Polished Front only	■ WUSC-2	2200	■ WUSC-2400		for ADA Compliance)
		Pneutroi	nic 🔲 V	/MS II	☐ LGB3318	Less 18" x 33" Horizontally-
4.) Valve S	election:					mounted L-Shaped Grab Bar
■ NV	No Valve	9.) Shower			■ LGB24V	Less 24" Vertically-mounted Grab Bar
PML1	Single Temp. Pneumatic Metering 9 P	APS		le Penal Shower Head	☐ LRD5	5" Ligature-resistant Drain Cover 🖫
PML2	Dual Temp. Pneumatic Metering 9 🛡	■ NPS		stable Penal Shower Head 6		
E1L1	Single Temp. Electronic (Pick Control)* 6 🖫	□ CSH	0	resistant Shower Head ③ ⑤	Other	
E1L2	Dual Temp. Electronic (Pick Control)* 9 🛡	LRSH		resistant Shower Head, WaterSense		
PBV	Pressure-Balancing Mixing Valve			Insert (1.5 GPM & 2.0 GPM Flow Rate		/ power through ground fault interrupter
TPV	Temp/Pressure-Balancing Mixing Valve		available	3,		(GFCI) receptacle / breaker)
TPLR	Ligature-resistant Temp/Pressure-	☐ FX		ld Flexshower w/ Quick		ty applications
	Balancing Mixing Valve			ect and Vacuum Breaker	Ligature-re	esistant option***
Valve Mani	fold Option:	LRFX		resistant Quick Disconnect Hand Held		
Pneumatic	or Electronic Valves Only:		Shower	T		E-RESISTANT DISCLAIMER
(See th	e Manifold Option Page at the end of	2HD	Dual Fixe	ed Shower Heads 9		is designed to minimize ligature points. While every effor
Catalog	Section <u>S5</u> for further information)					de to reduce the possibility of ligature points, this produc
☐ MA2		10.) Drain S				inate all risks. Ligature-Resistant products by Willoughb
		ICD		aulk Cabinet Shower Drain (2")	Industries are	e to be used in conjunction with, not as a replacement fo
			(Standar	d)	trained profes	ssionals.

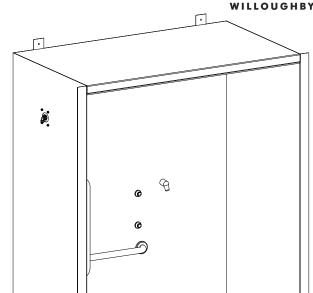


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MADE IN THE U.S.A.

5105 West 78th Street . Indianapolis, IN. 46268

ADA Compliant Roll-In Cabinet Shower



Please provide shower finish schedule upon ordering.

(Unit may be shown with optional features)

Recommended Specifications

Roll-In Front Access Handicap Cabinet Shower shall be: Willoughby Model No. ____S-3660-HC (Select from model number and options list on next page)

IN COMPLIANCE WITH A.D.A. 2010**

Shower cabinet shall be fabricated from 14 GA., Type 304 stainless steel. Shower floor shall be fabricated from 11 GA., Type 304 stainless steel. The construction shall be *all-welded* (unitized models only, not applicable to knockdown models), exposed stainless surfaces polished to a #4 satin finish, except shower floor which shall have a non-slip glass blast finish.

Standard equipment shall include:

- (ICD) Inside caulk drain (2") with removable strainer
- (GB24) 24" Horizontally-mounted grab bar
- (GB30) 30" Horizontally-mounted grab bar
- (GB24V) 24" Vertically-mounted grab bar
- (FSS) Fold-up stainless steel shower seat
- -1/2" ADA Threshold with anchor holes

Unit requires chase area for installation and maintenance.

Underside of shower floor shall be sound deadened with fire resistant material.

Unit requires 2" recess in floor.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a unitized 36" x 60" Roll-In Handicap Cabinet Shower with ADA-Compliant Right hand back wall chase/shower head/valving, polished front, single temp, pneumatic metering valves, standard ligature-resistant pneumatic push buttons, 2.5 GPM flow rate, two non-adjustable penal shower heads, and standard inside caulk drain

Use the following Willoughby Model Number: US-3660-HC-R-A4-PML1-MA2-PBH-2.5GPM-NPS-2DH-ICD

The location of the showerhead within the cabinet shower could result in potential water spray outside of the shower compartment. It is highly recommended that a floor drain be utilized at or near the shower entrance. The floor drain is to be provided by others.

Fixture shall be free-standing, no anchoring required.

To specify Knockdown Cabinet Shower: Select the "KS" model number from the list on the Model Number and Options page.

**NOTE: US/KS-3660-HC is in compliance with ADA 2010 standards when equipped with valve controls mounted on the Back Wall of the fixture, adjacent to the Fold-up Shower Seat. (Contact your Willoughby representative for further details.)



WARNING: Cancer and Reproductive Harm

- www.P65Warnings.ca.gov

MADE IN THE U.S.A.

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-					
1	1.) Base Model Number:	5.) Diverter Valve:		11.) Options	 :
	Unitized Roll-in Handicap Cabinet Shower:	☐ DV	Diverter Valve	☐ vg	Ventilation Grille (Specify Free Area and
Ţ	☐ US-3660-HC 36"L x 60"W Cabinet Shower	■ DVLR	Ligature-resistant Diverter Valve 🛡		Location; Standard Grille Dimensions:
_	Knockdown Roll-in Handicap Cabinet Shower:	☐ PML1-MA2	Two Single Temp. Pneumatic	_	8-3/4" x 8-3/4" with 15-3/4 in ² open area)
Ļ	☐ KS-3660-HC 36"L x 60"W Cabinet Shower		Metering Valves in Lieu of	☐ CP	Closure Panels
,	2.) ADA Shower Head/Push Button/Valve Orientation*:		Diverter Valve	□ STC	(Specify Dimensions and Locations) Sloping Top Closure
	L Left Hand, Back Wall	6.) Push Button Selec	ction:	CR	Curtain Rod (Less Curtain and Hooks)
	R Right Hand, Back Wall	Pneumatic or Electro		LRSC	Ligature-Reistant Curtain with Track
		☐ PBH Ligature	-resistant Pneumatic	☐ TH1	Release Towel Hook 9 ®
3	3.) Cabinet Side Exterior Finish Schedule:		ittons 6 @	☐ GBC	Grab Bar Closure Plates 6 ®
-	(For Back Wall ADA Comp.)		-resistant Piezo Electronic	☐ RD	Recessed Mounted Soap Dish ©
	☐ A4 Polished Front only ☐ Other	Push Bu	ıttons* ⊙ ♥	☐ SD ☐ TMV	Surface Mounted Soap Dish In-line Thermostatic Mixing Valve
		7.) Flow Rates:		☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC**
4	4.) Valve Selection:	2.5 GPM (Standard	1)	TF24P	Plug-in Transformer, 110VAC to 24VAC**
	■ NV No Valve	■ 2.0 GPM		☐ LFSS	Less Fold-up Stainless Steel Shower Seat
	PML1 Single Temp. Pneumatic Metering	☐ 1.5 GPM			(NOTE: In lieu of seat, (1) centered 48" back-
	☐ PML2 Dual Temp. Pneumatic Metering ⑤ ⑤ □ E1L1 Single Temp. Electronic (Pick Control)** ⑥ ⑤	9 \ Electronic Control	lo**		wall grab bar and (2) centered 24" side-wall grab
	□ E1L1 Single Temp. Electronic (Pick Control)** □ E1L2 Dual Temp. Electronic (Pick Control)** □ □	8.) Electronic Control (Must Use Electron		☐ LRD5	bars will be included for ADA compliance) 5" Ligature-resistant Drain Cover
	☐ PBV Pressure-Balancing Mixing Valve	☐ WUSC-2200	☐ WUSC-2400		
į	☐ TPV Temp/Pressure-Balancing Mixing Valve	Pneutronic \(\bigcup \)	WMS II		
Ţ	☐ TPLR Ligature-resistant Temp/Pressure-				
	Balancing Mixing Valve Valve Manifold Option:	9.) Shower Head Sele APS Adjustab			S/KS-3660-HC is in compliance with ADA 2010
	Valve Manifold Option: Pneumatic or Electronic Valves Only:	_ ,	ole Penal Shower Head ustable Penal Shower Head 9		when equipped with valve controls mounted on all of the fixture, adjacent to the fold-up shower
,	(See the Manifold Option Page at the end of	_ ,	-resistant Shower Head 9		sify when ordering, contact your Willoughby
	Catalog Section <u>S5</u> for further information)		-resistant Shower Head, WaterSense	` '	tive for further details.)
Ţ	☐ MA2		Insert (1.5 GPM & 2.0 GPM Flow Rate		
			e only) 👨		V power through ground fault interrupter
		_	eld Flexshower w/ Quick ect and Vacuum Breaker		(GFCI) receptacle / breaker) ty applications
			-resistant Quick Disconnect Hand Held		esistant option***
		Shower	g		•
		2HD Dual Fix	ed Shower Heads 9		E-RESISTANT DISCLAIMER
		10.) Drain Selection:			is designed to minimize ligature points. While every on made to reduce the possibility of ligature points, this
		,	aulk Cabinet Shower Drain (2")		not eliminate all risks. Ligature-Resistant products by
		(Standar	, ,		ndustries are to be used in conjunction with, not as a
				replacement	for, trained professionals.
[
	Approved For Manufacturing By:		Date:	Co	ompany:
	Approved For Manufacturing By:	Wall Type: _	Date:	Co	ompany:
	Approved For Manufacturing By: Wall Thickness:	Wall Type: _	Date:	Co	ompany:
	Wall Thickness:	Wall Type:	9_ IN COMPLIANCE *	Co	ompany:
	Wall Thickness:	Wall Type: _		Co	ompany:
	Wall Thickness:	Wall Type: _	IN COMPLIANCE WITH A.D.A. 2010		ompany:
	Wall Thickness:	Wall Type: _	IN COMPLIANCE WITH A.D.A. 2010 NOTE: 2" RECESS IN FLOOR REQUIRED FO		
	Wall Thickness:	Wall Type: _	IN COMPLIANCE WITH A.D.A. 2010 NOTE: 2° RECESS IN FLOOR REQUIRED FO INSTALLATION		
	Wall Thickness:	Wall Type: _	IN COMPLIANCE WITH A.D.A. 2010 NOTE: 2" RECESS IN FLOOR REQUIRED FO INSTALLATION SEAT (GB30) HORIZONTAL 30" GRAB BAR		
	Wall Thickness:	Wall Type: _	NOTE: 2" RECESS IN FLOOR REQUIRED FO INSTALLATION SEAT (GB30) HORIZONTAL 30" GRAB BAR REMOVABLE STRAINER ATTACHED TO 11 GA. S/S SLIP-RESISTANT FLOOR		
	Wall Thickness:	Wall Type:	IN COMPLIANCE WITH A.D.A. 2010 NOTE: 2" RECESS IN FLOOR REQUIRED FO INSTALLATION SEAT (GB30) HORIZONTAL 30" GRAB BAR REMOVABLE STRAINER ATTACHED TO		
	Wall Thickness:	Wall Type: _	NOTE: 2" RECESS IN FLOOR REQUIRED FO INSTALLATION SEAT (GB30) HORIZONTAL 30" GRAB BAR REMOVABLE STRAINER ATTACHED TO 11 GA. S/S SLIP-RESISTANT FLOOR		
	Mall Thickness: Tincurring Obligation. 1/10.17/10. 1/1	Wall Type:	NOTE: 2" RECESS IN FLOOR REQUIRED FO INSTALLATION SEAT (GB30) HORIZONTAL 30" GRAB BAR REMOVABLE STRAINER ATTACHED TO 11 GA. S/S SLIP-RESISTANT FLOOR		
	Mall Thickness: Tincurring Obligation. 1/10.17/10. 1/1	Wall Type:	NOTE: 2" RECESS IN FLOOR REQUIRED FO INSTALLATION SEAT (GB30) HORIZONTAL 30" GRAB BAR REMOVABLE STRAINER ATTACHED TO 11 GA. S/S SLIP-RESISTANT FLOOR		
	Mall Thickness: Tincurring Obligation. 1/10.17/10. 1/1	Wall Type:	IN COMPLIANCE WITH A.D.A. 2010 NOTE: 2" RECESS IN FLOOR REQUIRED FO INSTALLATION SEAT (GB30) HORIZONTAL 30" GRAB BAR REMOVABLE STRAINER ATTACHED TO 11 GA. S/S SLIP-RESISTANT FLOOR (GB24) HORIZONTAL 24" GRAB BAR	R - 4"	
	Mall Thickness: Tincurring Obligation. 1/10.17/10. 1/1	Wall Type:	IN COMPLIANCE WITH A.D.A. 2010 NOTE: 2" RECESS IN FLOOR REQUIRED FO INSTALLATION SEAT (GB30) HORIZONTAL 30" GRAB BAR REMOVABLE STRAINER ATTACHED TO 11 GA. S/S SLIP-RESISTANT FLOOR (GB24) HORIZONTAL 24" GRAB BAR -2" -4" (NPS) NON-ADJUSTABLE PENAL SHOWER	R HEAD	18"—VALVE-SIDE
	Mall Thickness: Tincurring Obligation. 1/10.17/10. 1/1	Wall Type:	IN COMPLIANCE WITH A.D.A. 2010 NOTE: 2" RECESS IN FLOOR REQUIRED FO INSTALLATION SEAT (GB30) HORIZONTAL 30" GRAB BAR REMOVABLE STRAINER ATTACHED TO 11 GA. S/S SLIP-RESISTANT FLOOR (GB24) HORIZONTAL 24" GRAB BAR	R HEAD	8
	Mall Thickness: Tincurring Obligation. 1/10.17/10. 1/1	Wall Type:	IN COMPLIANCE WITH A.D.A. 2010 NOTE: 2" RECESS IN FLOOR REQUIRED FO INSTALLATION SEAT (GB30) HORIZONTAL 30" GRAB BAR REMOVABLE STRAINER ATTACHED TO 11 GA. S/S SLIP-RESISTANT FLOOR (GB24) HORIZONTAL 24" GRAB BAR -2" -4" (NPS) NON-ADJUSTABLE PENAL SHOWER	R HEAD HEAD	NALVE-SIDE WALL WITH
	Mall Thickness: Tincurring Obligation. 1/10.17/10. 1/1	Wall Type:	NOTE: 2" RECESS IN FLOOR REQUIRED FO INSTALLATION SEAT (GB30) HORIZONTAL 30" GRAB BAR REMOVABLE STRAINER ATTACHED TO 11 GA. S/S SLIP-RESISTANT FLOOR (GB24) HORIZONTAL 24" GRAB BAR -2" -4" (NPS) NON-ADJUSTABLE PENAL SHOWER (NPS) NON-ADJUSTABLE PENAL SHOWER	R HEAD HEAD HEAD	VALVE-SIDE WALL WITH OPENINGS
	MITH FACTORY PRIOR TO ROUGH-IN REGIONAL INCURRING OBLIGATION. PAGE CHAIGES IN DESIGN AND NOTICE AND WITHOUT INCURRING OBLIGATION. PAGE CHAIGES IN DESIGN AND NOTICE AND WITHOUT INCURRING OBLIGATION.	Wall Type:	IN COMPLIANCE WITH A.D.A. 2010 NOTE: 2" RECESS IN FLOOR REQUIRED FO INSTALLATION SEAT (GB30) HORIZONTAL 30" GRAB BAR REMOVABLE STRAINER ATTACHED TO 11 GA. SIS SLIP-RESISTANT FLOOR (GB24) HORIZONTAL 24" GRAB BAR 2" (NPS) NON-ADJUSTABLE PENAL SHOWER (NPS) NON-ADJUSTABLE PENAL SHOWER PUSH BUTTON FOR (NPS) UPPER SHOWER	R HEAD HEAD HEAD HEAD	VALVE-SIDE WALL WITH OPENINGS
	MITH FACTORY PRIOR TO ROUGH-IN REGIONAL INCURRING OBLIGATION. PAGE CHAIGES IN DESIGN AND NOTICE AND WITHOUT INCURRING OBLIGATION. PAGE CHAIGES IN DESIGN AND NOTICE AND WITHOUT INCURRING OBLIGATION.	Wall Type:	IN COMPLIANCE WITH A.D.A. 2010 NOTE: 2° RECESS IN FLOOR REQUIRED FO INSTALLATION SEAT (GB30) HORIZONTAL 30° GRAB BAR REMOVABLE STRAINER ATTACHED TO 11 GA. S/S SLIP-RESISTANT FLOOR (GB24) HORIZONTAL 24" GRAB BAR -2° -4" (NPS) NON-ADJUSTABLE PENAL SHOWER (NPS)NON-ADJUSTABLE PENAL SHOWER PUSH BUTTON FOR (NPS) LOWER SHOWER PUSH BUTTON FOR (NPS) LOWER SHOWER (GB24V) VERTICAL 24" GRAI	R HEAD HEAD HEAD HEAD HEAD	VALVE-SIDE WALL WITH OPENINGS
	MITH FACTORY PRIOR TO ROUGH-IN REGIONAL INCURRING OBLIGATION. PAGE CHAIGES IN DESIGN AND NOTICE AND WITHOUT INCURRING OBLIGATION. PAGE CHAIGES IN DESIGN AND NOTICE AND WITHOUT INCURRING OBLIGATION.	Wall Type:	IN COMPLIANCE WITH A.D.A. 2010 NOTE: 2" RECESS IN FLOOR REQUIRED FO INSTALLATION SEAT (GB30) HORIZONTAL 30" GRAB BAR REMOVABLE STRAINER ATTACHED TO 11 GA. S/S SLIP-RESISTANT FLOOR (GB24) HORIZONTAL 24" GRAB BAR (NPS) NON-ADJUSTABLE PENAL SHOWER (NPS) NON-ADJUSTABLE PENAL SHOWER PUSH BUTTON FOR (NPS) UPPER SHOWER PUSH BUTTON FOR (NPS) LOWER SHOWER (GB24V) VERTICAL 24" GRAI	R HEAD HEAD HEAD B BAR B BAR	VALVE-SIDE WALL WITH OPENINGS
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	Mall Thickness: BY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. THOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION. A PARTICULAR CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. A PARTICULAR CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. A PARTICULAR CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. A PARTICULAR CHANGE CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. A PARTICULAR CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. A PARTICULAR CHANGE CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. A PARTICULAR CHANGE CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. A PARTICULAR CHANGE CHANGE CHANGE CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. A PARTICULAR CHANGE CHANGE CHANGE CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. A PARTICULAR CHANGE CHA	Wall Type:	IN COMPLIANCE WITH A.D.A. 2010 NOTE: 2" RECESS IN FLOOR REQUIRED FO INSTALLATION SEAT (GB30) HORIZONTAL 30" GRAB BAR REMOVABLE STRAINER ATTACHED TO 11 GA. SYS SLIP-RESISTANT FLOOR (GB24) HORIZONTAL 24" GRAB BAR (NPS) NON-ADJUSTABLE PENAL SHOWER (NPS) NON-ADJUSTABLE PENAL SHOWER (NPS) NON-ADJUSTABLE PENAL SHOWER PUSH BUTTON FOR (NPS) UPPER SHOWER PUSH BUTTON FOR (NPS) UPPER SHOWER (GB24V) VERTICAL 24" GRAI 14 GA. S/S STALL, ALL WELDED SEAN (NA TO KNOCKDOWN FIXTURES) 48" LOWER FIXED SHOWER HEAD	HEAD HEAD HEAD HEAD HEAD HEAD HEAD HEAD	VALVE-SIDE WALL WITH OPENINGS
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	Mall Thickness: BY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. THOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION. A PARTICULAR CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. A PARTICULAR CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. A PARTICULAR CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. A PARTICULAR CHANGE CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. A PARTICULAR CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. A PARTICULAR CHANGE CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. A PARTICULAR CHANGE CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. A PARTICULAR CHANGE CHANGE CHANGE CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. A PARTICULAR CHANGE CHANGE CHANGE CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. A PARTICULAR CHANGE CHA	Wall Type:	IN COMPLIANCE WITH A.D.A. 2010 NOTE: 2° RECESS IN FLOOR REQUIRED FO INSTALLATION SEAT (GB30) HORIZONTAL 30° GRAB BAR REMOVABLE STRAINER ATTACHED TO 11 GA. S/S SLIP-RESISTANT FLOOR (GB24) HORIZONTAL 24° GRAB BAR 2° (NPS) NON-ADJUSTABLE PENAL SHOWER (NPS)	HEAD HEAD HEAD HEAD HEAD HEAD HEAD HEAD	VALVE-SIDE WALL WITH OPENINGS
	Mall Thickness: HBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION. OVER 1, 10 and	Wall Type:	IN COMPLIANCE WITH A.D.A. 2010 NOTE: 2° RECESS IN FLOOR REQUIRED FO INSTALLATION SEAT (GB30) HORIZONTAL 30° GRAB BAR REMOVABLE STRAINER ATTACHED TO 11 GA. S/S SLIP-RESISTANT FLOOR (GB24) HORIZONTAL 24° GRAB BAR (NPS) NON-ADJUSTABLE PENAL SHOWER (NPS) NON-ADJUSTABLE PENAL SHOWER PUSH BUTTON FOR (NPS) UPPER SHOWER PUSH BUTTON FOR (NPS) UPPER SHOWER (GB24V) VERTICAL 24° GRAB (NA TO KNOCKDOWN FIXTURES) 14 GA. S/S STALL, ALL WELDED SEAN (NA TO KNOCKDOWN FIXTURES) 148' LOWER FIXED SHOWER HEAD	HEAD HEAD HEAD HEAD HEAD HEAD HEAD HEAD	VALVE-SIDE WALL WITH OPENINGS

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SECTION B-B

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W)

ADA Compliant Front Access Roll-In Cabinet Shower



Recommended Specifications

Roll-In Front Access Handicap Cabinet Shower shall be: Willoughby Model No. ____**S-3660-HC-FA** (Select from model number and options list on next page)

Shower cabinet shall be fabricated from 14 GA., Type 304 stainless steel. Shower floor shall be fabricated from 11 GA., Type 304 stainless steel. The construction shall be **all-welded** (unitized models only, not applicable to knockdown models), exposed stainless surfaces polished to a #4 satin finish, except shower floor which shall have a non-slip glass blast finish

Standard equipment shall include:

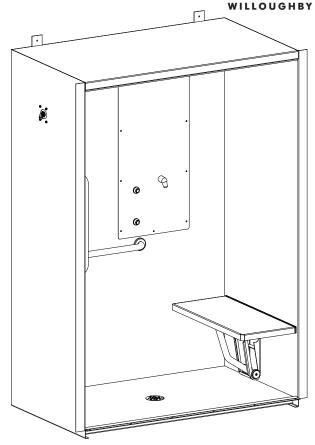
- (ICD) Inside caulk drain (2") with removable strainer
- (GB24) 24" Horizontally-mounted grab bar
- (GB30) 30" Horizontally-mounted grab bar
- (GB24V) 24" Vertically-mounted grab bar
- (FSS) Fold-up stainless steel shower seat
- -1/2" ADA Threshold with anchor holes

Unit requires no chase area for installation and maintenance. Shower valve and shower head shall be mounted on removable access panel secured with security screws.

Underside of shower floor shall be sound deadened with fire resistant material.

Unit requires 2" recess in floor.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).



Please provide shower finish schedule upon ordering.
(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a unitized 36" x 60" Roll-In Front Access Handicap Cabinet Shower with ADA-Compliant Right hand back wall shower head/push button/valving, polished front, single temp. pneumatic metering valves, standard ligature-resistant pneumatic push buttons, 2.5 GPM flow rate, two non-adjustable penal shower heads, and standard inside caulk drain

Use the following Willoughby Model Number: US-3660-HC-FA-R-A4-PML1-MA2-PBH-2.5GPM-NPS-2HD-ICD

The location of the showerhead within the cabinet shower could result in potential water spray outside of the shower compartment. It is highly recommended that a floor drain be utilized at or near the shower entrance. The floor drain is to be provided by others.

Fixture shall be free-standing, no anchoring required.

To specify Knockdown Cabinet Shower: Select the "KS" model number from the list on the Model Number and Options page.

**NOTE: US/KS-3660-HC-FA is in compliance with ADA 2010 standards when equipped with valve controls mounted on the Back Wall of the fixture, adjacent to the Fold-up Shower Seat. (Contact your Willoughby representative for further details.)



WARNING: Cancer and Reproductive Harm

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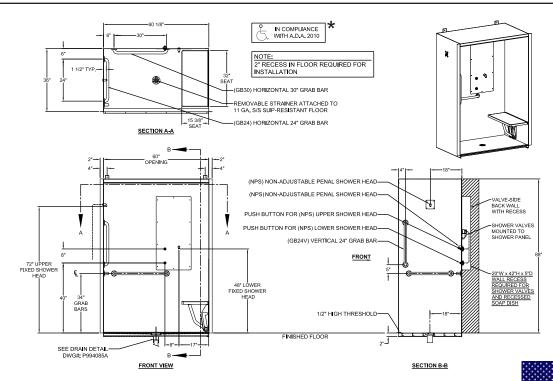
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© Rev. 3/2024 \$5-33

1.) Base Model Number:	5.) Diverter Valve:		11.) Options:	
Unitized Roll-in Handicap Front	DV	Diverter Valve	VG	Ventilation Grille (Specify Free Area and
Access Cabinet Shower:	DVLR	Ligature-resistant Diverter Valve 🛡		Location; Standard Grille Dimensions:
☐ US-3660-HC-FA 36"L x 60"W Cabinet Shower	■ PML1-M	A2 Two Single Temp. Pneumatic		8-3/4" x 8-3/4" with 15-3/4 in ² open area)
Knockdown Roll-in Handicap Front		Metering Valves in Lieu of	□ CP	Closure Panels
Access Cabinet Shower:		Diverter Valve		(Specify Dimensions and Locations)
☐ KS-3660-HC-FA 36"L x 60"W Cabinet Shower	6.) Push Button Selection:		STC	Sloping Top Closure
	Pneumatic or Electronic Valves Only:		□ CR	Curtain Rod (Less Curtain and Hooks)
2.) ADA Shower Head/Push Button/Valve Orientation*:	PBH	Ligature-resistant Pneumatic	LRSC	Ligature-Reistant Curtain with Track 🛡
☐ L Left Hand, Back Wall		Push Buttons 9 ®	☐ TH1	Release Towel Hook 6 ©
R Right Hand, Back Wall	PZPB	Ligature-resistant Piezo Electronic	☐ GBC	Grab Bar Closure Plates 🧿 🛡
		Push Buttons* ூ ♥	RD RD	Recessed Mounted Soap Dish 9
3.) Cabinet Side Exterior Finish Schedule:			☐ SD	Surface Mounted Soap Dish
(For Back Wall ADA Comp.)	7.) Flow Rat	tes:	■ TMV	In-line Thermostatic Mixing Valve
☐ A4 Polished Front only	2.5 GPM	(Standard)	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC**
Other	2.0 GPM		☐ TF24P	Plug-in Transformer, 110VAC to 24VAC**
	1.5 GPM		LFSS	Less Fold-up Stainless Steel Shower Seat
4.) Valve Selection:				(NOTE: In lieu of seat, (1) centered 48" back-
■ NV No Valve	8.) Electronic Controls**			wall grab bar and (2) centered 24" side-wall grab
☐ PML1 Single Temp. Pneumatic Metering ⑤ ⑤	(Must Use Electronic Push Button):			bars will be included for ADA compliance)
☐ PML2 Dual Temp. Pneumatic Metering ⑤ ⑤	☐ WUSC-2200 ☐ WUSC-2400		☐ LRD5	5" Ligature-resistant Drain Cover 🖫
☐ E1L1 Single Temp. Electronic (Pick Control)** ⑤ ⑤	☐ Pneutronic ☐ WMS II		Other _	
☐ E1L2 Dual Temp. Electronic (Pick Control)**			Other _	
☐ PBV Pressure-Balancing Mixing Valve	9.) Shower Head Selection:			
☐ TPV Temp/Pressure-Balancing Mixing Valve	■ APS	Adjustable Penal Shower Head		IS/KS-3660-HC-FA is in compliance with ADA 2010
☐ TPLR Ligature-resistant Temp/Pressure-	■ NPS	Non-adjustable Penal Shower Head 9		when equipped with valve controls mounted on
Balancing Mixing Valve 🖫	CSH	Ligature-resistant Shower Head 9		vall of the fixture, adjacent to the fold-up shower
Valve Manifold Option:	LRSH	Ligature-resistant Shower Head, WaterSense	seat. (Specify when ordering, contact your Willoughby	
Pneumatic or Electronic Valves Only:		Labeled Insert (1.5 GPM & 2.0 GPM Flow Rate	representa	ative for further details.)
(See the Manifold Option Page at the end of		available only) 🖫		
Catalog Section <u>S5</u> for further information)	☐ FX	Hand Held Flexshower w/ Quick	**(Req. 110V power through ground fault interrupter	
☐ MA2		Disconnect and Vacuum Breaker		(GFCI) receptacle / breaker)
	☐ LRFX	Ligature-resistant Quick Disconnect Hand Held		rity applications
		Shower ®	Ligature-	resistant option***
	2HD	Dual Fixed Shower Heads O		
			***LIGATURE-RESISTANT DISCLAIMER	
	10.) Drain Selection:		This product is designed to minimize ligature points. While every	
	☐ ICD	Inside Caulk Cabinet Shower Drain (2")		een made to reduce the possibility of ligature points, this
	(Standard)		product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a	
			replacemen	t for, trained professionals.
Approved For Manufacturing By:		Date:	C	ompany:
			·	ompany
Wall Thickness:	vvali	Type:		

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.



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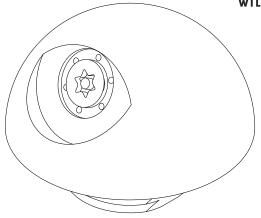


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WILLOUGHRY

CSH Ligature-resistant Vandal Resistant Shower Head (#380069A)



(Unit may be shown with optional features)

Recommended Specifications

Willoughby model CSH ligature-resistant, vandal resistant shower head shall be fixed type, constructed of Type 303 stainless steel, mounted from the rear with no visible fasteners, and shall have a 30° angle of spray through a Delrin insert, retained by a stainless steel Pin-Torx security screw. The head shall have 3/8" F.I.P. threads on the inlet. The entire unit has a ligature-resistant rounded and tapered design.

OPTIONS:

☐ CSH17 17° angle of spray (#380024)

☐ FA CSH With Stainless Steel Front Mounted Plate (For Non Fixture Applications)

☐ 2.5 2.5 Flow (Standard)

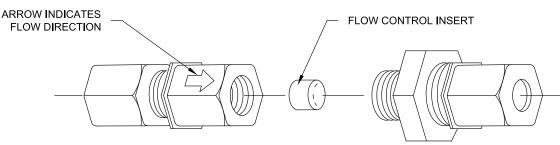
□ 2.0 2.0 In-line Flow Control

(See detail below; tubing must be 3/8" O.D. polyethylene)

■ 1.5 1.5 In-line Flow Control

(See detail below; tubing must be 3/8" O.D. polyethylene)

PART #380142-XX (SPECIFY FLOW)
IN-LINE FLOW CONTROL ASSEMBLY



LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.



WARNING: Cancer and Reproductive Harm

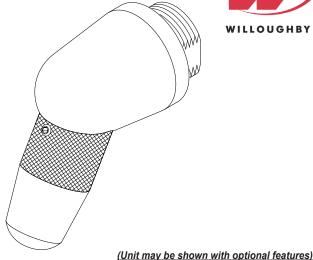
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APS (WSH-5D) User Adjustable Vandal Resistant Shower Head (#380025)



Recommended Specifications

Willoughby model APS (WSH-5D) user adjustable, vandal resistant shower head shall be fixed type, constructed of Type 303 stainless steel, mounted from the rear with no visible fasteners or removable parts, and shall have a 30° angle of spray. The head shall have 3/8" F.I.P. threads on the inlet. Spray pattern is adjustable by the user.

OPTIONS:

☐ APS17 17° angle of spray (#380026)

☐ 2.5 2.5 Flow (Standard)

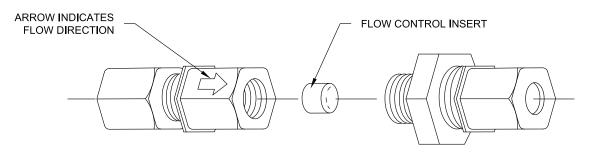
☐ 2.0 2.0 In-line Flow Control

(See detail below; tubing must be 3/8" O.D. polyethylene)

☐ 1.5 In-line Flow Control

(See detail below; tubing must be 3/8" O.D. polyethylene)

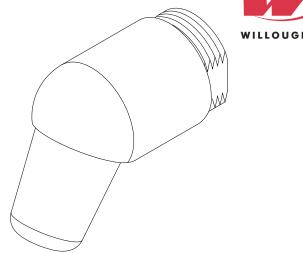
PART #380142-XX (SPECIFY FLOW) IN-LINE FLOW CONTROL ASSEMBLY







NPS (WSH-7) Non-Adjustable Vandal Resistant Shower Head (#370098)



(Unit may be shown with optional features)

Recommended Specifications

Willoughby model NPS (WSH-7) non-adjustable, vandal resistant shower head shall be fixed type, constructed of Type 303 stainless steel, mounted from the rear with no visible fasteners or removable parts, and shall have a fixed 30° angle of spray with an adjustable pattern. The head shall have 3/8" F.I.P. threads on the inlet.

The shower head is non-adjustable from the user side. To adjust shower nozzle spray pattern, insert a 1/8" Allen wrench through the nozzle orifice when shower is not in use, and turn counterclockwise to widen spray pattern or clockwise to narrow the spray pattern.

OPTIONS:

☐ NPS17 17° angle of spray (#380011)

☐ 2.5 2.5 Flow (Standard)

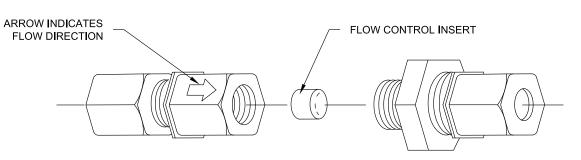
■ 2.0 2.0 In-line Flow Control

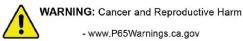
(See detail below; tubing must be 3/8" O.D. polyethylene)

■ 1.5 1.5 In-line Flow Control

(See detail below; tubing must be 3/8" O.D. polyethylene)

PART #380142-XX (SPECIFY FLOW) IN-LINE FLOW CONTROL ASSEMBLY





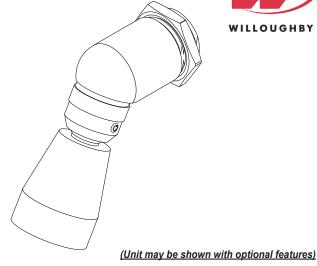
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LBJ Lockable Ball Joint Shower Head (#380028)



Recommended Specifications

Willoughby model LBJ lockable ball joint shower head shall be fixed type, constructed of chrome-plated brass, mounted from the rear with no visible fasteners or removable parts. The head shall have 3/8" F.I.P. threads on the inlet. The shower head spray direction can be locked in position using the recessed set screw.

OPTIONS:

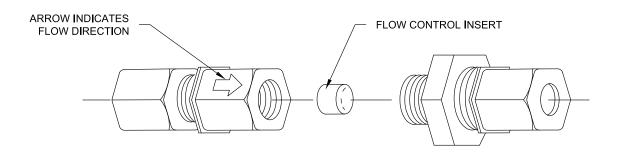
- ☐ 2.5 2.5 Flow (Standard)
- 2.0 2.0 In-line Flow Control

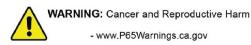
(See detail below; tubing must be 3/8" O.D. polyethylene)

☐ 1.5 1.5 In-line Flow Control

(See detail below; tubing must be 3/8" O.D. polyethylene)

PART #380142-XX (SPECIFY FLOW) IN-LINE FLOW CONTROL ASSEMBLY

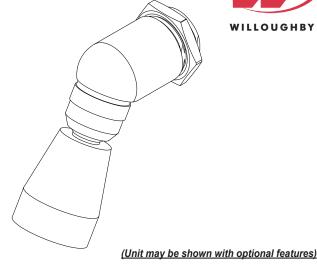








UBJ Universal Ball Joint Shower Head (#380027)



Recommended Specifications

Willoughby model UBJ universal ball joint shower head shall be fixed type, constructed of chrome-plated brass, mounted from the rear with no visible fasteners or removable parts. The head shall have 3/8" F.I.P. threads on the inlet. The shower head spray direction is user adjustable.

OPTIONS:

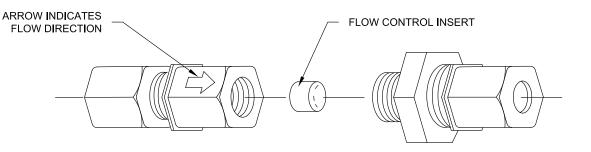
- ☐ 2.5 2.5 Flow (Standard)
- ☐ 2.0 2.0 In-line Flow Control

(See detail below; tubing must be 3/8" O.D. polyethylene)

☐ 1.5 1.5 In-line Flow Control

(See detail below; tubing must be 3/8" O.D. polyethylene)

PART #380142-XX (SPECIFY FLOW) IN-LINE FLOW CONTROL ASSEMBLY





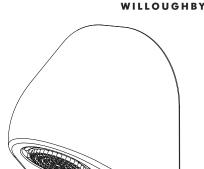


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Willoughby Industries - Behavioral Health Products



LRSH Ligature-resistant High Efficiency Shower Head



Recommended Specifications

Willoughby model LRSH Ligature-resistant, High Efficiency Shower Head shall be fixed type, with chrome-plated, die-cast construction. The vandal resistant shower head shall be rear mounted with no visible fasteners. The shower head shall have a 30° angle of spray, with 1.5 GPM flow rate insert standard. Optional 2.0 GPM flow rate insert available. Both the 1.5 GPM & 2.0 GPM Shower heads utilize a WaterSense Labeled insert that provide a steady and regulated flow. Optional swivel angle head allows for both vertical and horizontal user adjustment of the shower stream up to 14 degrees. The inlet connection shall be threaded for 3/8" F.I.P.

The LRSH features a concealed vandal resistant WaterSense labeled removable insert, the insert can be removed and installed with a specifically designed key tool. The insert provides a non-aerated (laminar flow) soft water stream w/ smart lime cleaning technology. The LRSH has a rounded and tapered design to minimize any potential ligature points, and shall meet the requirements of cNSF®us ASME A112.18.1 / CSA B125.1 U.P. Code and WaterSense Specification for Spray head inserts.

Flow Rate

1.5 GPM Flow Rate (WaterSense Labeled Insert) (Standard)

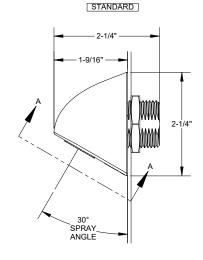
■ 2.0 GPM Flow Rate (WaterSense Labeled Insert)

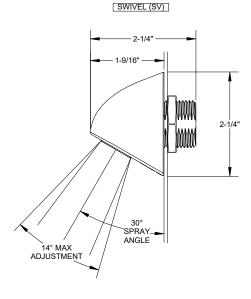
Options:

■ SV 14 Degree swivel angle head

☐ FA LRSH With Stainless Steel Front Mounted Plate (For Non Fixture Applications)







LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.



WARNING: Cancer and Reproductive Harm

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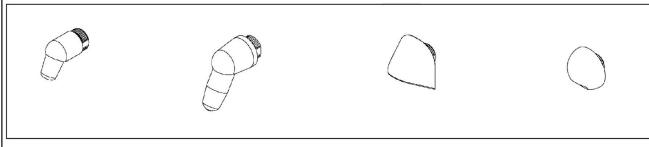


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S5-41

OPTIONS



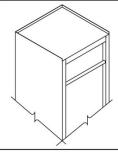


(NPS) **NON-ADJUSTABLE PENAL SHOWER HEAD**

(APS) ADJUSTABLÉ PENAL SHOWER HEAD

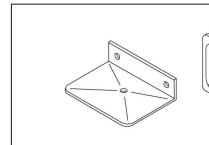
(LRSH) LIGATURE-RESISTANT HIGH **EFFCIENCY SHOWER HEAD**

(CSH) LIGATURE-RESIS-**TANT SHOWER HEAD**



1"DIA. STAINLESS STEEL TUBE WELDED TO BOTH SIDES OF DOOR JAMB FOR SHOWER CURTAIN ROD INSTALLATION. SHOWER CURTAIN BY OTHERS.

(CR) CURTAIN ROD

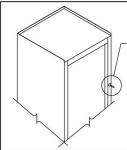


(SD) SURFACE MOUNTED **SOAP DISH**

(RD) RECESSED MOUNTED **SOAP DISH**

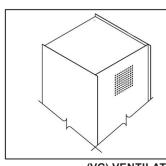
VENTILLATION GRILLE,

HAS A SERIES OF 1/4"



THIS NON-SUICIDAL PRESSURE ACTIVATED RELEASE TOWEL HOOK WILL SUPPORT LIGHT CLOTHING AND TOWEL LOADS, HOWEVER, EXCESSIVE LOADS PLACED ON THE HOOK WILL RENDER ITS FUNCTION USELESS.

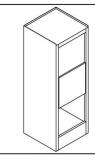
(TH1) TOWEL HOOK



HOLES ON 1/2"

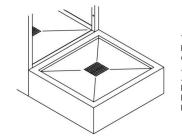
CENTERS





WHEN BOTH PRIVACY AND THE NEED TO MONITOR THE SHOWER AREA ARE REQUIRED, THIS **OPTION PROVIDES A SHOWER** CABINET WITH A REINFORCED STAINLESS STEEL DOOR, WHICH IS ATTACHED BY A SELF CLOSING PIANO HINGE, AND ACCOMPANIED BY A HEAVY GAUGE STAINLESS STEEL DOOR STOP.

(MD) MODESTY DOOR (NOT ADA COMPLIANT)



THIS OPTION PROVIDES A SHOWER CABINET WITH AN ADJOINING DRYING AREA WHICH FEATURES A GLASS BLAST FINISH, AND INTEGRAL DRAIN.

(DR) DRYING RECEPTOR

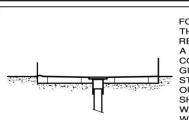
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OPTIONS (CONTINUED)



FOR ADA COMPLIANCE THRESHOLD MUST BE RECESSED 2" OR HAVE A RAMP PROVIDED. CONSULT ADA GUIDELINES. THE STANDARD WASTE OUTLET ON A CABINET SHOWER IS AN ELBOW WASTE TO THE CHASE WALL.

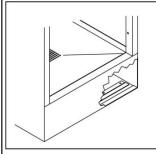
72" A.F.F.

(2) FIXED SHOWERHEADS IN LIEU OF FLEXSHOWER. MOUNT HANDICAP FIXED SHOWERHEAD AT 48" A.F.F.

48" A.F.F.

(ICD) INSIDE CAULK DRAIN (STANDARD ON ADA CABINET SHOWERS)





USED TO ANCHOR THE SHOWER CABINET TO THE FLOOR, ANCHORING HARDWARE BY OTHERS.

CONSTRUCTED OF 20 GAUGE GALVANIZED STEEL.

WALL SLEEVES PROVIDE FOR FIXTURE PLUMBING ROUGH-IN OPENINGS IN BLOCK AND POURED CONCRETE WALLS. THE SLEEVE BECOMES A PERMANENT PART OF THE WALL AND 1/2" DIAMETER STEEL ROD(S) WELDED TO THE FRAME. THE STEEL RODS PROVIDE RIGIDITY AND HELP TO PREVENT ESCAPE INTO THE CHASE SHOULD THE FIXTURE BE REMOVED.

(ZC) Z-CLIP FOR FLOOR MOUNTING





CONSTRUCTED OF 18 GAUGE

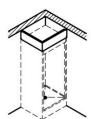
METAL WALL TEMPLATES PROVIDE FOR FIXTURE ROUGH-IN CUT-OUTS IN A STEEL WALL. THE TEMPLATE HAS INTEGRAL LAYOUT PATTERNS FOR CUTTING OR DRILLING WALL OPENINGS.

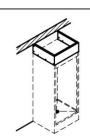
CLOSURE PANELS PROVIDED FOR SEALING OFF AREAS WHERE ACCESS IS NOT INTENDED. CLOSURE PANELS ARE FABRICATED FROM 14 GAUGE TYPE 304 STAINLESS STEEL WITH EXPOSED SURFACES POLISHED TO A #4 SATIN FINISH.

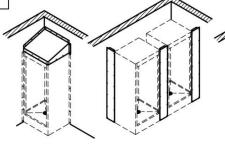
PANELS ARE PROVIDED WITH PUNCH HOLES, WHICH CAN BE USED AS A TEMPLATE FOR MARKING HOLES IN THE CABINET AND WALL. STAINLESS STEEL VANDAL RESISTANT SCREWS ARE PROVIDED FOR SECURING THE PANEL TO THE SHOWER OR ANGLE BRACKETS. WALL ANCHORING HARDWARE IS SUPPLIED BY OTHERS.

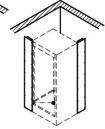
(MT) METAL TEMPLATE











(CP) CLOSURE PANELS

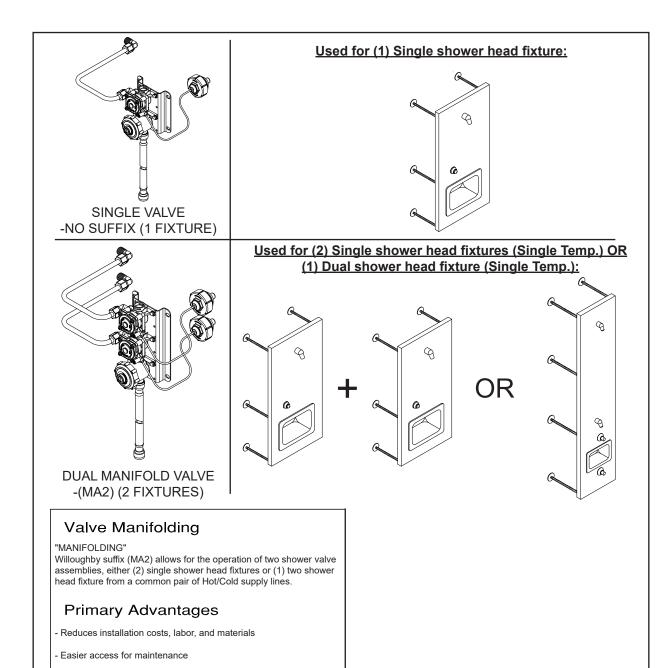
OPTIONS (CONTINUED)

SHOWER VALVE MANIFOLDING OPTION

- Adds flexibility and simplicity to your shower design needs

your sales representative when placing your order.

To specify: add suffix (MA2) to the selected valve model number. If manifolding (2) single shower head fixtures, be sure to specify this to



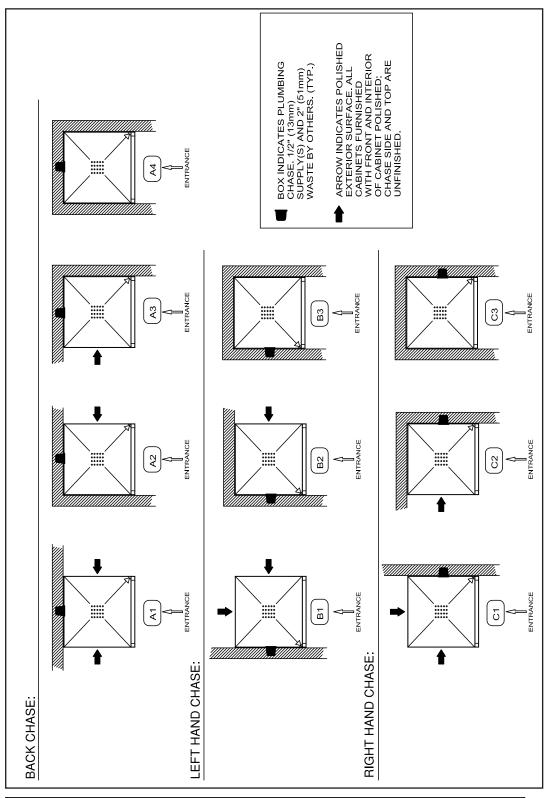
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WILLOUGHBY

OPTIONS (CONTINUED)

CABINET SHOWER FINISH SCHEDULE- NON-ADA MODELS



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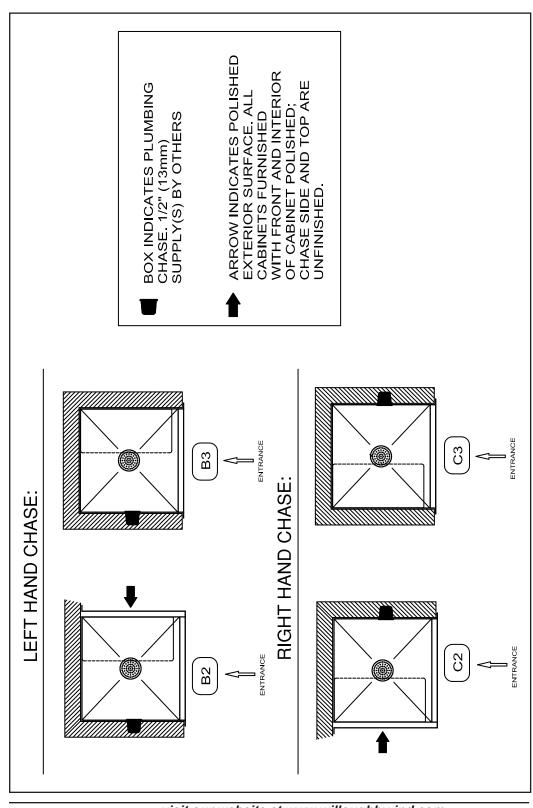
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OPTIONS (CONTINUED)

CABINET SHOWER FINISH SCHEDULE- ADA-COMPLIANT MODELS

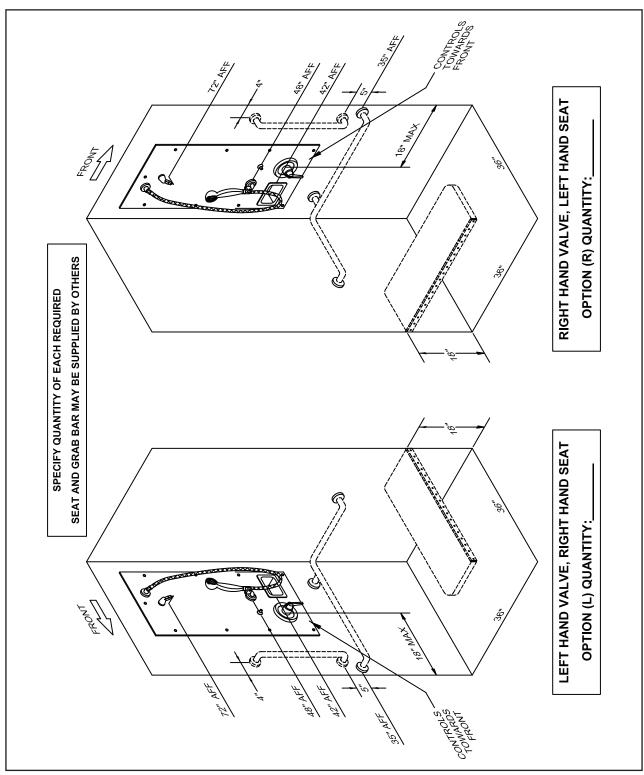




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OPTIONS (CONTINUED)

SHOWER STALL LAYOUT FOR ADA COMPLIANCE



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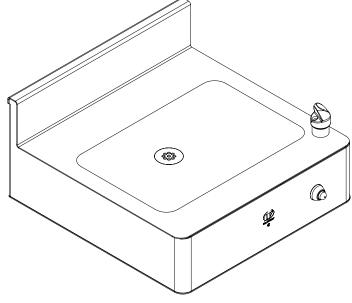




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DF-1015-96-HC
Stainless Steel
Handicap-ADA Compliant
Rear Mounted
Drinking Fountain



(Unit may be shown with optional features)

WITH A.D.A. 2010

IN COMPLIANCE

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Handicap-ADA Compliant, Rear Mounted Drinking Fountain with standard drinking fountain bubbler, standard single temp. non-metering pneumatic valve and ligature-resistant push button, and standard elbow waste

Use the following Willoughby Model Number: DF-1015-96-HC-CDB-PSL1-PBH-EB

Recommended Specifications

Stainless Steel, Handicap-ADA Compliant, Rear Mounted Drinking Fountain shall be:

Willoughby Model No. DF-1015-96-HC

(select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all-welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Rectangular-shaped basin, 13" x 9-1/2" x 1-1/2" deep
- Integral fast drain with air vent
- (CDB) stainless steel drinking fountain bubbler
- (PSL1) Single temperature, non-metering pneumatic valve
 w/ (PBH) ligature-resistant pneumatic push button
- (EB) Elbow Waste (1-1/2" Plain End)

Cabinet interior shall be sound deadened with fire-resistant material.

Mounting:

Anchoring shall be by standard 4-point system: 1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick

Unit shall require chase area for installation and maintenance.

Vandal Resistance:

All push buttons and escutcheons are secured to the unit from within the fixture. Valves, water supplies, and waste connections are concealed within.



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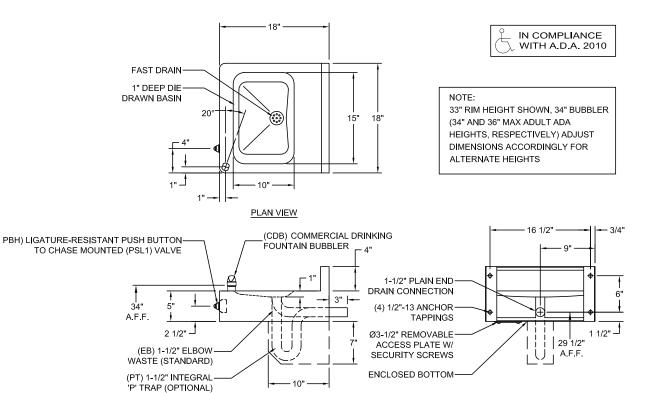
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© Rev. 7/2022 \$6-1

1.) Drinking Fountain Model: 5.) Drinking Fountain Waste: ☐ EB Elbow Waste (1-1/2" Plain End) (Standard) ☐ DF-1015-96-HC Stainless Steel, Handicap-ADA Compliant. Rear Mounted Drinking Fountain PT Integral 'P'-Trap ☐ LWE Lavatory Waste Extension (Specify if more than 3") Thru-Wall Extension, 'P'-Trap and Clean-Out 2.) Bubbler Selection: LW1 ☐ CDB Drinking Fountain Bubbler (Standard) ☐ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube □ DMBH Deck Mounted Ligature-resistant Bubbler* Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron ■ LWC2 3.) Valve Selection: 6.) Other Options: ☐ PSL1 Single Temp. Pneumatic Non-metering (Standard) □ MT Wall Template ■ WS Wall Sleeve (Requires Accessible Chase) DC Decorator Color (White) 4.) Push Button Selection: □ PBH Ligature-resistant Pneumatic Push Button (Standard)* Other: Other: *LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____





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SIDE VIEW

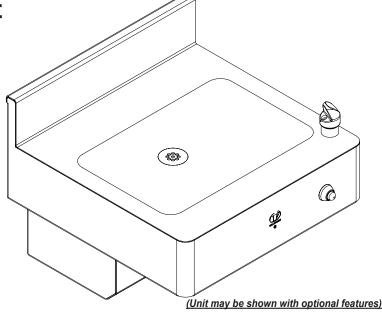
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REAR VIEW



DF-1015-96-HC-FA
Stainless Steel
Handicap-ADA Compliant
Front Mounted
Drinking Fountain





To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Handicap-ADA Compliant, Front Mounted Drinking Fountain with standard drinking fountain bubbler, standard single temp. non-metering pneumatic valve and ligature-resistant push button, and standard removable 'p'-trap

Use the following Willoughby Model Number: DF-1015-96-HC-FA-CDB-PSL1-PBH-RPT

Recommended Specifications

Stainless Steel, Handicap-ADA Compliant, Front Mounted Drinking Fountain shall be:

Willoughby Model No. **DF-1015-96-HC-FA** (select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all-welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Rectangular-shaped basin, 14-1/2" x 10" x 1" deep
- Integral fast drain with air vent
- (CDB) stainless steel drinking fountain bubbler
- (PSL1) Single temperature, non-metering pneumatic valve
 w/ (PBH) ligature-resistant pneumatic push button
- (RPT) slip joint, cast brass union 'p'-trap (1-1/2")
- Removable bottom panel attached w/ vandal resistant screws

Cabinet interior shall be sound deadened with fire-resistant material.

Mounting:

Anchoring shall be from the front with 'z'-clip and anchoring holes provided. Anchoring hardware by others.

Unit requires no chase area for installation and maintenance.

Vandal Resistance:

All push buttons and escutcheons are secured to the unit from within the fixture. Valves, water supplies and waste connections are concealed within the fixture and pipe shroud. The pipe shroud is removable and secured with vandal resistant security screws.

ADA and ANSI Compliant:

When the drinking fountain is mounted at standard 36" bubbler height, it is designed to comply with applicable ADA and ANSI Z124.3 and Z124.6 accessibility guidelines.



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1.) Drinking Fountain Model:

☐ DF-1015-96-HC-FA

Stainless Steel, Handicap-ADA Compliant, Front Mounted Drinking Fountain

2.) Bubbler Selection:

CDB Drinking Fountain Bubbler (Standard)DMBH Deck Mounted Ligature-resistant Bubbler*

3.) Valve Selection:

☐ PSL1 Single Temp. Pneumatic Non-metering (Standard)

4.) Push Button Selection:

☐ PBH Ligature-I

Ligature-resistant Pneumatic Push Button (Standard)*

5.) Drinking Fountain Waste:

RPT Slip Joint, Cast Brass Union 'P'-trap (Removable, 1-1/2") (Standard)

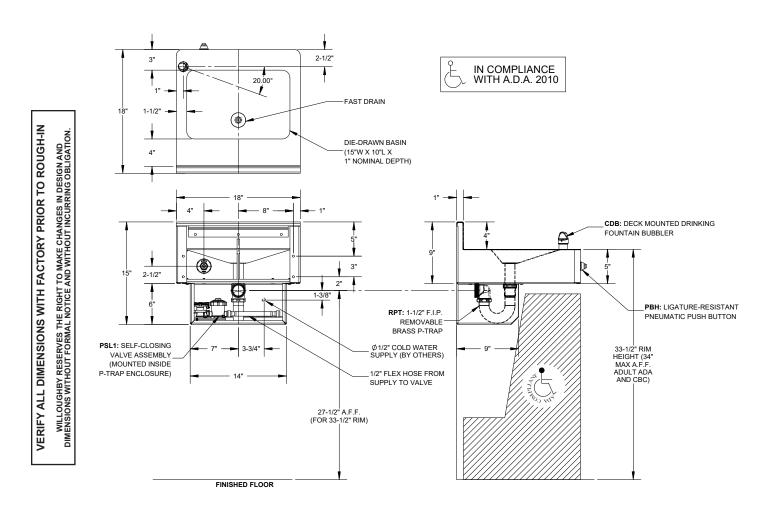
6.) Other Options:

□ MT Wall Template□ DC Decorator Color (White)

*LIGATURE-RESISTANT DISCLAIMER

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Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		



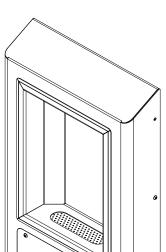
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WBF-1SM Series
Stainless Steel
Surface Mounted
Heavy Duty
Ligature-Resistant
Bottle Filler



To specify fixture and options, use the Model Number and Options page.

Example: To specify a WBF-1SM surface mounted heavy duty ligature-resistant bottle filler with single temp pneumatic non-metering valve, and standard ligature-resistant pneumatic push button.

Use the following Willoughby Model Number: WBF-1SM-PSL1-PBH

Recommended Specifications

Stainless Steel, Surface Mounted, Heavy Duty, Ligature-Resistant, Bottle Filler shall be: Willoughby Model No. **WBF-1SM**.

Model **WBF-1SM** bottle filler shall be constructed of a vandal resistant with 14 gauge, type 304 stainless steel, with a removable bottom panel.

Filler spout shall be activated by a solid stainless steel pushbutton assembly which controls a lead-free, self-closing valve. Pushbutton operation shall require less than 5 lbs. of force to activate.

Flow controls (1.0 GPM) are used to ensure adequate flow without being wasteful.

Model **WBF-1SM** bottle filler shall be lead-free and in compliance with ANSI/NSF 61, Section 9 requirements.

Anchoring shall be by wall mounting frame attached to wall. Anchoring hardware is to be provided by others.

- * Simple, vandal-resistant pushbutton
- * Quick, 1-gallon-per-minute fill rate
- * Standard heavy duty type 304 14 Ga. stainless steel
- * Solid stainless steel vandal resistant anti-rotation filler spout
- * Promotes use of environmentally friendly refillable bottles, reducing use of disposable bottles
- * Compliant to ADA reach height guidelines
 (Optional cane skirt avaliable for use in circulation path)
- * Removable bottom panel

LIGATURE-RESISTANT DISCLAIMER

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1.)	Tv	pe:

☐ WBF-1SM-PSL1-PBH Stainless Steel, Surface Mounted,

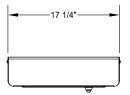
Heavy Duty, Ligature-Resistant,

Bottle Filler

2.) Option:

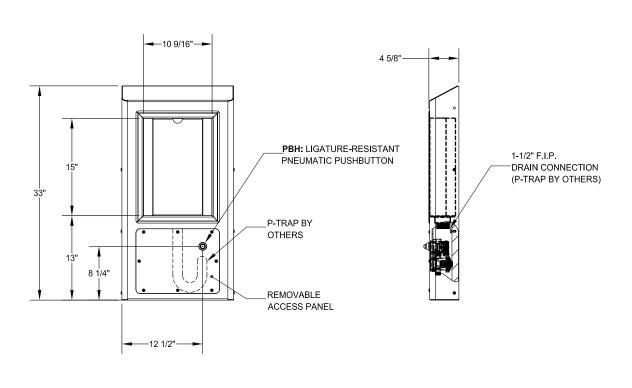
☐ CS Cane Skirt (Reqiured when for use in circulation paths)

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Type: _____



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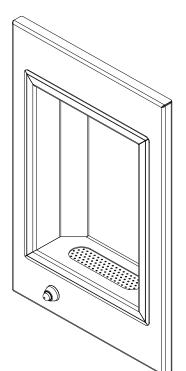
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WBF-1RM Series
Stainless Steel
Rear Mounted
Heavy Duty
Ligature-Resistant
Bottle Filler



To specify fixture and options, use the Model Number and Options page.

Example: To specify a WBF-1RM rear mounted heavy duty ligature-resistant bottle filler with single temp pneumatic non-metering valve, and standard ligature-resistant pneumatic push button.

Use the following Willoughby Model Number: WBF-1RM-PSL1-PBH

Recommended Specifications

Stainless Steel, Rear Mounted, Heavy Duty, Ligature-Resistant, Bottle Filler shall be: Willoughby Model No. **WBF-1RM**.

Model **WBF-1RM** bottle filler shall be constructed of a vandal resistant with 14 gauge, type 304 stainless steel.

Filler spout shall be activated by a solid stainless steel pushbutton assembly which controls a lead-free, self-closing valve. Pushbutton operation shall require less than 5 lbs. of force to activate.

Flow controls (1.0 GPM) are used to ensure adequate flow without being wasteful.

Model **WBF-1RM** bottle filler shall be lead-free and in compliance with ANSI/NSF 61, Section 9 requirements.

Anchoring shall be by standard 4-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick.

- * Simple, vandal-resistant pushbutton
- * Quick, 1-gallon-per-minute fill rate
- * Standard heavy duty type 304 14 Ga. stainless steel
- * Solid stainless steel vandal resistant anti-rotation filler spout
- * Promotes use of environmentally friendly refillable bottles, reducing use of disposable bottles
- * Compliant to ADA reach height guidelines

LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.



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1.) Type:

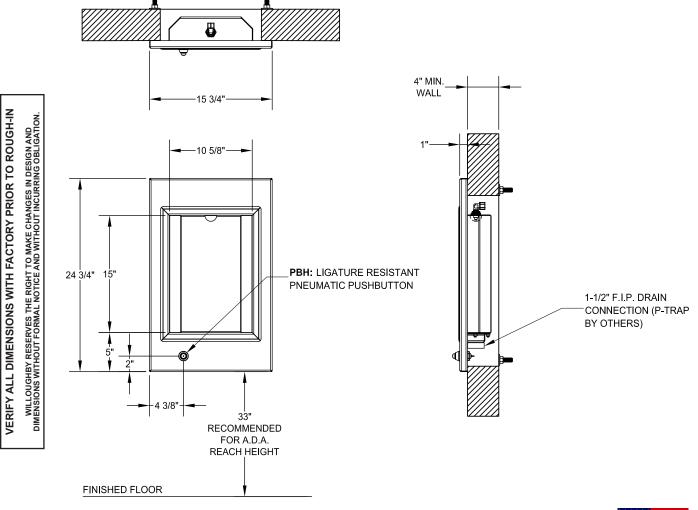
☐ WBF-1RM-PSL1-PBH

Stainless Steel, Rear Mounted, Heavy Duty, Ligature-Resistant, Bottle Filler

2.) Option:

■ WS Wall Sleeve

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		



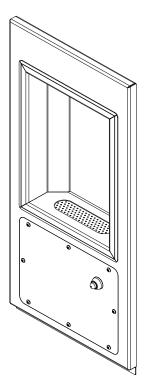
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WBF-1RFM Series
Stainless Steel
Recessed Front Mounted
Heavy Duty
Ligature-Resistant
Bottle Filler



To specify fixture and options, use the Model Number and Options page.

Example: To specify a WBF-1RFM recessed front mounted heavy duty ligature-resistant bottle filler with single temp pneumatic non-metering valve, and standard ligature-resistant pneumatic push button.

Use the following Willoughby Model Number: WBF-1RFM-PSL1-PBH

Recommended Specifications

Stainless Steel, Recessed Front Mounted, Heavy Duty, Ligature-Resistant, Bottle Filler shall be: Willoughby Model No. **WBF-1RFM**.

Model **WBF-1RFM** bottle filler shall be constructed of a vandal resistant with 14 gauge, type 304 stainless steel, with a removable bottom panel.

Filler spout shall be activated by a solid stainless steel pushbutton assembly which controls a lead-free, self-closing valve. Pushbutton operation shall require less than 5 lbs. of force to activate.

Flow controls (1.0 GPM) are used to ensure adequate flow without being wasteful.

Model **WBF-1RFM** bottle filler shall be lead-free and in compliance with ANSI/NSF 61, Section 9 requirements.

Anchoring shall be by z-clip at the top of the fixture and wall mounting holes at the bottom of the fixture. Anchoring hardware is to be provided by others.

- * Simple, vandal-resistant pushbutton
- * Quick, 1-gallon-per-minute fill rate
- * Standard heavy duty type 304 14 Ga. stainless steel
- * Solid stainless steel vandal resistant anti-rotation filler spout
- * Promotes use of environmentally friendly refillable bottles, reducing use of disposable bottles
- * Compliant to ADA reach height guidelines
- * Removable bottom panel

LIGATURE-RESISTANT DISCLAIMER

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1.) Type:

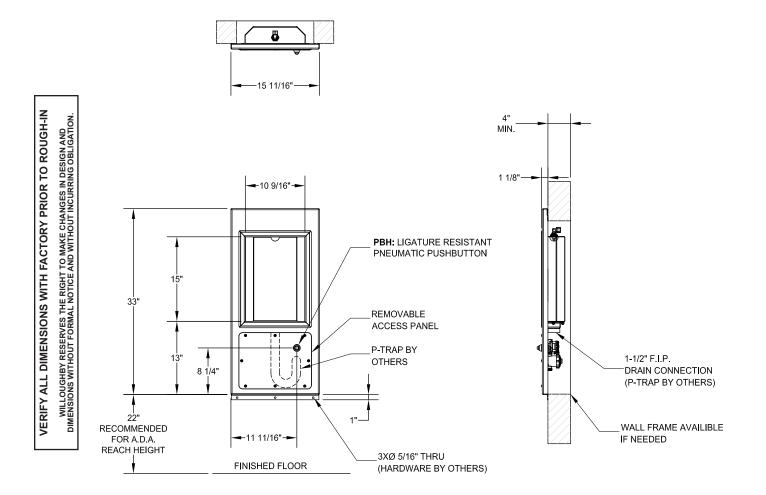
■ WBF-1RFM-PSL1-PBH

Stainless Steel, Recessed Front Mounted, Heavy Duty, Ligature-Resistant, Bottle Filler

2.) Option:

■ WF Wall Frame

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		



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WBFDF Series
Stainless Steel
ADA Compliant
Rear Mounted
Bottle Filler
w/ Drinking Fountain

Stainless Steel, ADA Compliant, Bottle Filler w/ Drinking Fountain shall be: Willoughby Model No. **WBFDF**

Model **WBFDF** bottle filler shall be constructed of a vandal resistant 14 gauge, type 304 stainless steel.

Filler spout shall be activated by a solid stainless steel pushbutton assembly which controls a lead-free, self-closing valve. Pushbutton operation shall require less than 5 lbs. of force to activate.

Model **WBFDF** bottle filler shall be lead-free and in compliance with ANSI/NSF 61, Section 9 requirements.

Anchoring shall be by standard 6-point system. \emptyset 1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick.

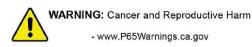
Recommended Specifications

To specify fixture and options, use the Model Number and Options page.

Example: To specify a WBFDF rear mounted bottle filler with single temp non-metering valve with ligature-resistant pushbuttons

Use the following Willoughby Model Number: WBFDF

- * Compliant to ADA reach height guidelines
- * Quick, 1-gallon-per-minute bottle fill rate
- * Solid <u>stainless steel</u> vandal resistant anti-rotation bottle filler spout
- * Solid stainless steel anti-rotation drinking fountain bubbler
- * Promotes use of environmentally friendly refillable bottles, reducing use of disposable bottles



1



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1.) Type:

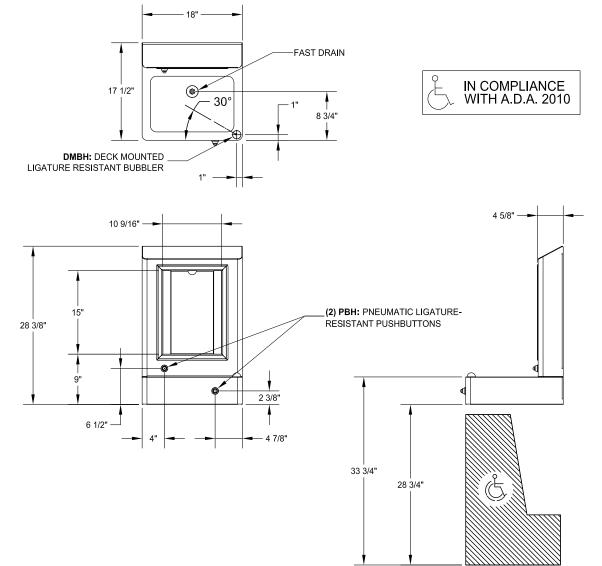
☐ WBFDF Stainless Steel, ADA Compliant, Rear Mounted,

Bottle Filler w/ Drinking Fountain

2.) Option:

■ WS Wall Sleeve

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____



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WBFDF-FA Series
Stainless Steel
ADA Compliant
Front Mounted
Bottle Filler
w/ Drinking Fountain

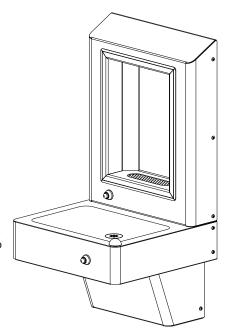
Stainless Steel, ADA Compliant, Front Mounted Bottle Filler w/ Drinking Fountain shall be: Willoughby Model No. **WBFDF-FA**

Model **WBFDF-FA** bottle filler shall be constructed of vandal resistant 14 gauge, type 304 stainless steel, with a removable bottom shroud.

Filler spout shall be activated by a solid stainless steel pushbutton assembly which controls a lead-free, self-closing valve. Pushbutton operation shall require less than 5 lbs. of force to activate.

Model **WBFDF-FA** bottle filler shall be lead-free and in compliance with ANSI/NSF 61, Section 9 requirements.

Anchoring shall be by wall mounting frame attached to wall. Anchoring hardware is to be provided by others.



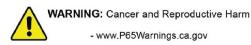
Recommended Specifications

To specify fixture and options, use the Model Number and Options page.

Example: To specify a WBFDF-FA front mounted bottle filler with single temp non-metering valve with ligature-resistant pushbuttons

Use the following Willoughby Model Number: WBFDF-FA

- * Compliant to ADA reach height guidelines
- * Quick, 1-gallon-per-minute bottle fill rate
- * Solid <u>stainless steel</u> vandal resistant anti-rotation bottle filler spout
- * Solid stainless steel anti-rotation drinking fountain bubbler
- * Promotes use of environmentally friendly refillable bottles, reducing use of disposable bottles



MADE IN THE U.S.A.

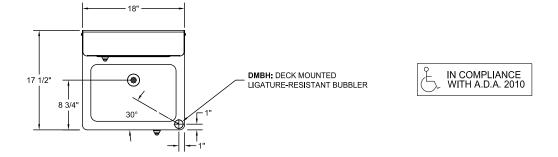
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1.) Type:

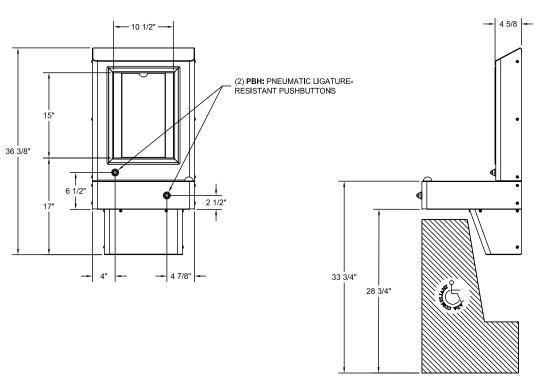
■ WBFDF-FA

Stainless Steel, ADA Compliant, Front Mounted, Bottle Filler w/ Drinking Fountain

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		



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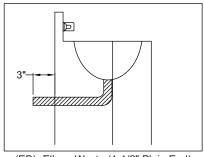
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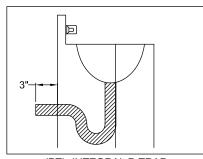
WILLOUGHBY

DRINKING FOUNTAIN WASTE

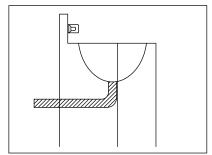
(SIMILAR LAV. WASTE OPTIONS SHOWN FOR REFERENCE)



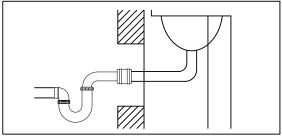
(EB)- Elbow Waste (1-1/2" Plain End) (1-1/2" PLAIN END)



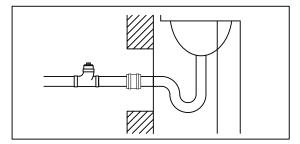
(PT)- INTEGRAL P-TRAP (1-1/2" PLAIN END)



(LWE)- LAVATORY WASTE EXTENSION GREATER THAN 3" (1-1/2" PLAIN END)



(LW1)- BRASS THRU-WALL EXTENSION P-TRAP (FOR USE W/ (EB) Elbow Waste (1-1/2" Plain End))



(LW2)- BRASS THRU-WALL EXTENSION P-TRAP (FOR USE W/ (PT) INTEGRAL 'P'-TRAP)



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ETW-1490-CM-RPF
Replacement
Carrier Mounted (3-bolt)
Wall Outlet
Blowout Series
Toilet



Recommended Specifications

Replacement, Carrier Mounted (3-bolt), Wall Outlet, Blowout Series Toilet shall be: Willoughby Model No. **ETW-1490-CM-RPF**

Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be an all welded, with exposed stainless surfaces polished to a #3 satin finish.

Standard toilet shall include: elongated toilet bowl with contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball.

Toilet shall be blowout type which requires 35 psi minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Fixture shall withstand loadings up to 2,000 lbs. with no measurable deflection and loadings up to 5,000 lbs. with no permanent damage.

Anchoring shall be by standard 3-bolt blowout carrier (carrier and fasteners by others). Back spud unit shall require chase area for installation and maintenance.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

On back to back fixture installations, do not use standard cross type waste fittings: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

/_	MANUFACTURER	MODEL#	V	W	X	Y	Z
	AMERICAN STANDARD	2509.057	3-1/2"	11-1/4"	11-3/4"	15 1/4"	5"
		2510,048	3-1/2"	11-1/4"	11-3/4"	15 1/4"	N/A
		2511.012	3-1/2"	11-1/4"	11-3/4"	15 1/4"	5"
		2512.010	3-1/2"	11-1/4"	11-3/4"	15 1/4"	N/A
		2513,018	3-1/2"	11-1/4"	11-3/4"	15 1/4"	5"
		2515.013	3-1/2"	11-1/4"	11-3/4"	15 1/4"	5"
	CRANE	3-460	3-1/2"	11-1/4"	12-1/4"	15 3/4"	N/A
		3-462	3-1/2"	11-1/4"	12-1/4"	15 3/4"	4-3/4"
		3-462E	3-1/2"	11-1/4"	12-1/4"	15 3/4"	4-3/4"
		3-464	3-1/2"	11-1/4"	12-1/4"	15 3/4"	4-3/4"
		3-464E	3-1/2"	11-1/4"	12-1/4"	15 3/4"	4-3/4"
	ELJER	111-0355	3-1/2"	11-1/4"	11-1/2"	15"	N/A
		111-0365	3-1/2"	11-1/4"	11-1/2"	15"	5"
		111-0377	3-1/2"	11-1/4"	11-1/2"	15"	5"
	KOHLER	K-4450-ET	3-1/2"	11-1/4"	11"	14-1/2"	N/A
		K-4460-ER	3-1/2"	11-1/4"	11"	14-1/2"	5 1/2"
		K-4475-ER	3-1/2"	11-1/4"	11"	14-1/2"	5 1/2"
		K-4450-C	4"	11-3/4"	11"	15"	N/A
		K-4460-C	4"	11-3/4"	11"	15"	5 1/2"
		K-4475-C	4"	11-3/4"	11"	15"	5 1/2"
	SUPER SECUR	A-300	3-1/2"	11-1/4"	11-1/4"	14-3/4"	5-1/4"



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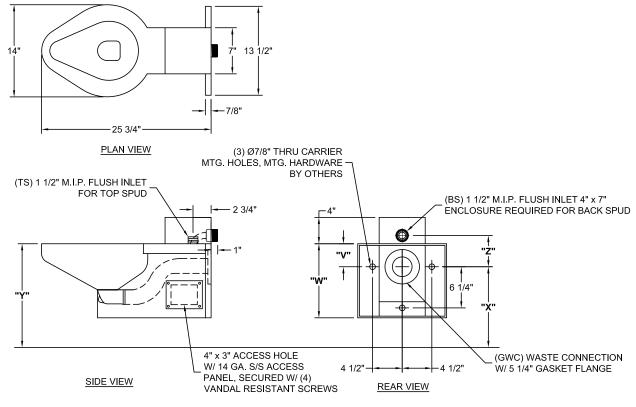
ı			WODEL NOWIDE		NIL	or riono.
1.)	Base M	odel Number:				[Other Options CONTINUED:]
	ETW-1	490-CM-RPF	Replacement, Carrier Mounted (3-bolt),		HS	Hinged White Plastic Seat (No Cover, not recommended
			Wall Outlet, Blowout Series Toilet			for Maximum Security/Ligature-resistant use)
					DC	Decorator Color (Fixture exterior only - White)
2.)	Inlet Lo	cation:			TF24H	Hard-wired Transformer, 110VAC to 24VAC*
	BS	Back Spud			TF24P	Plug-in Transformer, 110VAC to 24VAC*
	TS	Top Spud			HPS	High Polish Seat
					TSC	Toilet Shipping Cover
3.)	Toilet W	/aste:			RTH1	Wall Mounted Recessed Tissue Holder
	GWC	Gasketed Waste	e Connection (Standard)			(Rear Mounted, Requires Accessible Chase)
					RTH2	Wall Mounted Recessed Tissue Holder
4.)	Flush V	alve:				(Front Mounted, 4-1/2" Depth)
	FV	Hydraulic Flush Va	alve (Includes Actuator)		RFVB	Remote Flush Valve with Box
		☐ 1.28 GPF HET	(4.8 Lpf) 1.6 GPF ULF (6.0 Lpf)		REFVB	Remote Electronic Flush Valve with Box*
		□ 3.5 GPF (13.2	Lpf)		Other	
	EFVP	Electronic Flush	Valve w/ (PZPB) Ligature-resistant Piezo Push		Other	
		Button (Pick Cont	rol)*/**			
		☐ 1.28 GPF HET	(4.8 Lpf) 1.6 GPF ULF (6.0 Lpf)	6.)	Electron	ic Controls* (Must Use Electronic Flush Valve):
		□ 3.5 GPF (13.2	Lpf)		WUFC-	4000 Pneutronic WMSII
	NFV	Flush Valve Provid	ded by Others		WUCC-	3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory
						or if the Toilet is selected with an (ET4) overflow option)
5.)	Other O	ptions:				
	T4	Manual Reset Toi	let Overflow Preventer, Requires:	*(F	Req. 110V	power through ground fault interrupter (GFCI) receptacle / breaker)
		(FV) Hydraulic F	lush Valve and Accessible Chase			
	ET4	Electronic Toilet	Overflow Preventer*, Requires (EFVP),	**L	IGATUF	RE-RESISTANT DISCLAIMER
		Accessible Chas	e, & (WUCC-3010) or (WMSII) control	Th	is produ	ct is designed to minimize ligature points. While every effort has
	FVT	Flush Valve Con	nection (Back Spud Only)	be	en made	e to reduce the possibility of ligature points, this product does not
	ASFVC	Flush Valve Cove	er (Ligature-resistant, Top Spud Only)**	eli	minate a	Il risks. Ligature-Resistant products by Willoughby Industries are to
	ASFVC	CADA Ligatu	re-resistant ADA Flush Valve Cover (Top Spud Only)**	be	used in	conjunction with, not as a replacement for, trained professionals.

[CONTINUED IN NEXT COLUMN:]

mounted flush valve from fixture side)

Flush Valve Access Panel Front Mounted (Allows access to chase

Approved For Manufacturing By:		Date:	Company:		
Wall Thickness:	. Wall Type:				



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VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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APFM

ETW-1490-FM-RPF Replacement Floor Mounted Wall Outlet Blowout Series Toilet





Recommended Specifications

Replacement, Floor Mounted, Wall Outlet, Blowout Series Toilet shall be: Willoughby Model No. **ETW-1490-FM-RPF**

Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be an all welded, with exposed stainless surfaces polished to a #3 satin finish.

Standard toilet shall include: elongated toilet bowl with contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball. Toilet shall be blowout type which requires 35 psi minimum flushing pressure.

Fixture shall withstand loadings up to 2,000 lbs. with no measurable deflection and loadings up to 5,000 lbs. with no permanent damage.

Anchoring shall be through the front and through the floor (anchoring hardware provided by others). Back spud unit shall require chase area for installation and maintenance.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

On back to back fixture installations, do not use standard cross type waste fittings: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

\checkmark	MANUFACTURER	MODEL#	Α	В	С	D
	KOHLER	4480ER	11"	5-1/2"	9"	6-1/2"
	AMERICAN STANDARD	2516.037	10-1/4"	6"	10"	6-3/4"
	SUPER SECUR	A-100	10-1/4"	6-1/4"	10"	6-3/4"
	ELJER	111-0580	10"	6"	10"	6-3/4"
	CRANE	3-487	11"	5-1/2"	s	s

S = SPECIFY



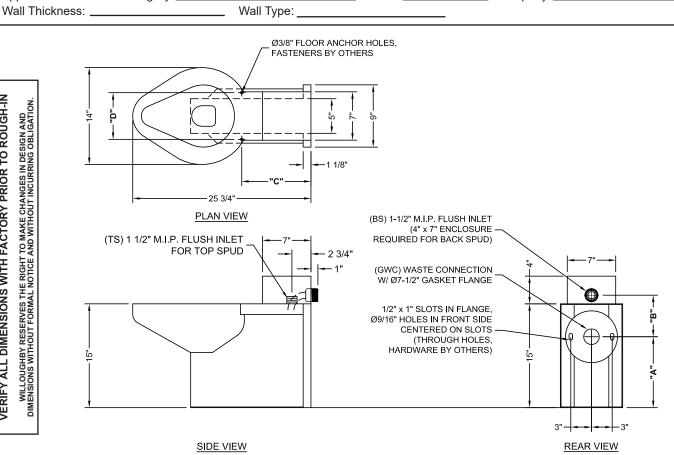
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			MODEL NUMBE	:R A	AND	OPTIONS:
1.)	Base M	odel Number:				[Other Options CONTINUED:]
	ETW-1	490-FM-RPF	Replacement, Floor Mounted, Wall Outlet,		HS	Hinged White Plastic Seat (No Cover, not recommended
			Blowout Series Toilet			for Maximum Security/Ligature-resistant use)
					DC	Decorator Color (Fixture exterior only - White)
2.)	Inlet Lo	cation:			TF24H	Hard-wired Transformer, 110VAC to 24VAC*
	BS	Back Spud			TF24P	Plug-in Transformer, 110VAC to 24VAC*
	TS	Top Spud			HPS	High Polish Seat
					TSC	Toilet Shipping Cover
3.)	Toilet V	aste:			RTH1	Wall Mounted Recessed Tissue Holder
	GWC	Gasketed Waste	e Connection (Standard)			(Rear Mounted, Requires Accessible Chase)
					RTH2	Wall Mounted Recessed Tissue Holder
4.)	Flush V	alve:				(Front Mounted, 4-1/2" Depth)
	FV	Hydraulic Flush Va	alve (Includes Actuator)		RFVB	Remote Flush Valve with Box
		■ 1.28 GPF HET	(4.8 Lpf) 1.6 GPF ULF (6.0 Lpf)		REFVB	Remote Electronic Flush Valve with Box*
		□ 3.5 GPF (13.2	2 Lpf)		Other	
	EFVP	Electronic Flush \ Button (Pick Contr	Valve w/ (PZPB) Ligature-resistant Piezo Push rol)*/**		Other	
		*	(4.8 Lpf) 1.6 GPF ULF (6.0 Lpf)	6.)	Electron	nic Controls* (Must Use Electronic Flush Valve):
		□ 3.5 GPF (13.2	Lpf)	o o	WUFC-	4000 Pneutronic WMSII
	NFV	Flush Valve Provid			WUCC-	3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory
			•			or if the Toilet is selected with an (ET4) overflow option)
5.)	Other C	ptions:				` , , , , ,
	T4		ilet Overflow Preventer, Requires: lush Valve and Accessible Chase	*(F	Req. 110V	/ power through ground fault interrupter (GFCI) receptacle / breaker)
	ET4	Electronic Toilet	Overflow Preventer*, Requires (EFVP),	**	_IGATUF	RE-RESISTANT DISCLAIMER
			e, & (WUCC-3010) or (WMSII) control	Th	nis produ	ct is designed to minimize ligature points. While every effort has
	FVT	Flush Valve Con	nection (Back Spud Only)	be	en made	e to reduce the possibility of ligature points, this product does not
	ASFVC	Flush Valve Cove	er (Ligature-resistant, Top Spud Only)**	eli	minate a	ill risks. Ligature-Resistant products by Willoughby Industries are to
	ASFVC		re-resistant ADA Flush Valve Cover (Top Spud Only)**			conjunction with, not as a replacement for, trained professionals.
	AP	Flush Valve Acce	ess Panel (Allows access to chase-mounted fixture side)			
		[CON]	TINUED IN NEXT COLUMN:]			
A	Approv	ed For Manufa	acturing By:		Date: _	Company:



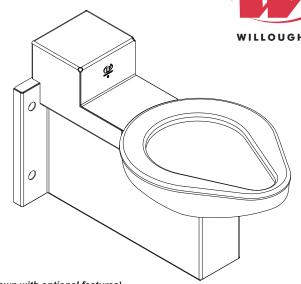
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ETWS-1490-CM-RPF
Replacement
Carrier Mounted (4-bolt)
Wall Outlet
Siphon Jet Series
Toilet



Recommended Specifications

(Unit may be shown with optional features)

Replacement, Carrier Mounted (4-bolt), Wall Outlet, Siphon Jet Series Toilet shall be: Willoughby Model No. **ETWS-1490-CM-RPF**

Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be an all welded, with exposed stainless surfaces polished to a #3 satin finish.

Standard toilet shall include: elongated toilet bowl with contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball. Toilet shall be siphon jet type which requires 35 psi minimum flushing pressure.

Fixture shall withstand loadings up to 2,000 lbs. with no measurable deflection and loadings up to 5,000 lbs. with no permanent damage.

Anchoring shall be by standard 4 bolt siphon jet carrier (carrier and fasteners by others).

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

On back to back fixture installations, do not use standard cross type waste fittings: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

\checkmark	MANUFACTURER	MODEL#	X	Y	Z
	AMERICAN STANDARD	2093.100	4-1/8"	14-1/2"	N/A
		2254.127	5-1/4"	15"	11"
		2256.194	5-1/4"	15"	
		2257.103	5-1/4"	15"	
		2258.125	5-1/4"	15"	11"
		2294.011	5-1/4"	16-1/8"	N/A
		2296.019	5-1/4"	16-1/8"	N/A
		2324.100			
		2477.016	5-1/4"	14-3/4"	
		2478.014	5-1/4"	14-3/4"	11"
		2500.015	5-1/4"	14-3/4"	11"
		2502.011	5-1/4"	14-3/4"	
	ELJER	111-1405	5-1/4"	14-3/4"	
		111-1405E	5-1/4"	15"	
		111-1413E	5-1/4"	15"	
		111-1425	5-1/4"	14-3/4"	7-3/4"
		111-1425E	5-1/4"	15"	7-3/4"
		111-1455	5-1/4"	14-3/4"	
		111-1475	5-1/4"	14-3/4"	7-3/4"
		111-1505	5-1/4"	15"	
		111-1513	5-1/4"	15"	
		111-2105	5-1/4"	15"	
		111-2110	5-1/4"	15"	7-3/4"
		111-2113	5-1/4"	15"	
		111-2118	5-1/4"	15"	7-3/4"
		111-2405E	5-1/4"	15"	
		111-2425E	5-1/4"	15"	11-3/4"
	CRANE	3-217	4"	16-1/2"	
		3-446	5-1/2"	14-3/4"	
		3-446E	5-1/2"	15-1/2"	
		3-449	5-1/2"	14-3/4"	9"
		3-449E	5-1/2"	15-1/2"	
		3-445	5-1/2"	17"	
		3H-445	5-1/2"	17"	
		3H-722E	5-1/2"	15-3/8"	
	KOHLER	K-4430-ET	5"	14-3/4"	
		K-4432-ER	5"	15"	10"
		K-4330	5"	15"	



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☐ ETWS-1490-CM-RPF			it, Carrier Mounted (4-bo Siphon Jet Series Toilet	It),		APFM	Flush Valve Acces
		vvali Odtiet,	Olphon det denes Tollet			HS	Hinged White Plas
2.) Inlet Lo	cation:				_	110	for Maximum Sec
□ BS	Back Spud					DC	Decorator Color (
□ TS	Top Spud					TF24H	Hard-wired Trans
						TF24P	Plug-in Transform
3.) Toilet V	Vaste:					HPS	High Polish Seat
☐ GWC	Gasketed Waste	Connection (Star	ndard)			TSC	Toilet Shipping Co
						RTH1	Wall Mounted Re
4.) Flush V	/alve:						(Rear Mounted, F
☐ FV	Hydraulic Flush Va	alve (Includes Actu	uator)			RTH2	Wall Mounted Re
	1.28 GPF HET	(4.8 Lpf) 🚨 1.6	6 GPF ULF (6.0 Lpf)				(Front Mounted, 4
	□ 3.5 GPF (13.2	Lpf)				RFVB	Remote Flush Va
□ EFVP		, ,	igature-resistant Piezo P	ush		REFVB	Remote Electronic
	Button (Pick Contr	,				Other .	
	■ 1.28 GPF HET		6 GPF ULF (6.0 Lpf)			Other .	
	□ 3.5 GPF (13.2	' '					
☐ NFV	Flush Valve Provid	led by Others			6.)		ic Controls* (Must
						WUFC-4	
5.) Other C	•					WUCC-3	3010 (Select WUCC
□ T4	Manual Reset Toil		'				or if the
··		ush Valve and Ac					
☐ T4A	Auto Reset Toilet				*(R	eq. 110V	power through grou
D 574		ush Valve and Ac			++1	IC ATUD	E DECICEANT D
□ ET4			er*, Requires (EFVP),				E-RESISTANT D at is designed to n
□ FVT		e, & (WUCC-3010 nection (Back Spu) or (WMSII) control				to reduce the pos
		, ,	ant, Top Spud Only)**				l risks. Ligature-R
□ ASFV0		, •	lush Valve Cover (Top S				conjunction with,
- A01 V	SABA Ligatui	C-103ISIAIII ADA I	idaii vaive covei (10p o	, ,		fessiona	,
	TOON	TAILLED IN NEVT	00111881-1		٥.٥		

_	AFFIVI	Flush valve Access Fahler Florit Mounted (Allows access to chase
		mounted flush valve from fixture side)
	HS	Hinged White Plastic Seat (No Cover, not recommended
		for Maximum Security/Ligature-resistant use)
	DC	Decorator Color (Fixture exterior only - White)
	TF24H	Hard-wired Transformer, 110VAC to 24VAC*
	TF24P	Plug-in Transformer, 110VAC to 24VAC*
	HPS	High Polish Seat
	TSC	Toilet Shipping Cover
	RTH1	Wall Mounted Recessed Tissue Holder
		(Rear Mounted, Requires Accessible Chase)
	RTH2	Wall Mounted Recessed Tissue Holder
		(Front Mounted, 4-1/2" Depth)
	RFVB	Remote Flush Valve with Box
	REFVB	Remote Electronic Flush Valve with Box*
	Other	
	Other	
٠.		

Use Electronic Flush Valve):

eutronic ■ WMSII

C-3010 Control if pairing a Toilet with a Lavatory Toilet is selected with an (ET4) overflow option)

und fault interrupter (GFCI) receptacle / breaker)

DISCLAIMER

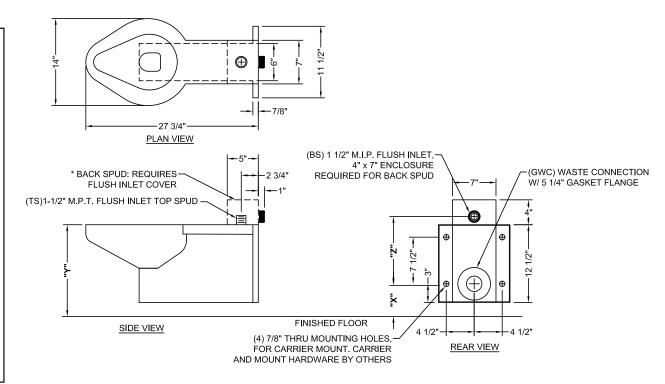
minimize ligature points. While every effort has ssibility of ligature points, this product does not Resistant products by Willoughby Industries are to not as a replacement for, trained

[CONTINUED IN NEXT COLUMN:]

Approved For Manufacturing By: _ Company:_ Date: _ Wall Thickness: . Wall Type:

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.

1.) Base Model Number:





ETWS-1490-FM-RPF
Replacement
Floor Mounted
Wall Outlet
Siphon Jet Series
Toilet





Recommended Specifications

Replacement, Floor Mounted, Wall Outlet, Siphon Jet Series Toilet shall be: Willoughby Model No. **ETWS-1490-FM-RPF**

Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be an all welded, with exposed stainless surfaces polished to a #3 satin finish.

Standard toilet shall include: elongated toilet bowl with contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball. Toilet shall be siphon jet type which requires 35 psi minimum flushing pressure.

Fixture shall withstand loadings up to 2,000 lbs. with no measurable deflection and loadings up to 5,000 lbs. with no permanent damage.

Anchoring shall be through the front and through the floor (anchoring hardware provided by others). Back spud unit shall require chase area for installation and maintenance.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

On back to back fixture installations, do not use standard cross type waste fittings: cross flow may result due to siphon jet action. Use sanitary or offset type waste fittings.

MANUFACTURER	MODEL#	А	В	С	D	
KOHLER	K4398	4-1/2"	13-1/8"	14"	6-1/2"	
	K4486-ET	4-1/2"		14"	6-1/2"	
	K4498-ER	4-1/2"	13"	14"	6-1/2"	
CRANE	3-480	4-1/2"		11-3/4"	8"	
	3-480E	4-1/2"				
	3-481	4-1/2"	13"	11-3/4"	8"	
	3-481E	4-1/2"	13"			
	3-484E	4-1/2"	13"			
AMERICAN STANDARD	2529.014	4-1/4"		10-3/8"	5-1/2"	
	2530.012	4-1/4"	13-1/8"	10-3/8"	5-1/2"	
	2320.100	4"	N/A	12-3/4"	6"	
	2529.016	4-1/4"		10-1/2"	5-1/2"	
	2530.016	4-1/4"	13-1/8"	10-1/2"	5-1/2"	
	2531.016	4-1/4"	13-1/8"	10-1/2"	5-1/2"	
ELJER	111-0505	4-1/2"		TOE CL	CLAMPS	
	111-0505E	4-1/2"	ТОЕ С		LAMPS	
	111-0515	4-1/2"	13"	TOE CL	LAMPS	
	111-0515E	4-1/2"		TOE CL	AMPS	
SUPER SECUR	A-104	4-1/4"	14-1/2"	18"	6-3/4"	



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1.) Base Model Number: ETWS-1490-FM-RPF Replacement, Floor Mounted, Wall Outlet, Siphon Jet Series Toilet 2.) Inlet Location: ■ BS Back Spud □ TS Top Spud 3.) Toilet Waste: GWC Gasketed Waste Connection (Standard) 4.) Flush Valve: □ FV Hydraulic Flush Valve (Includes Actuator) ☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf) □ 3.5 GPF (13.2 Lpf) Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*/** ☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf) □ 3.5 GPF (13.2 Lpf) NFV Flush Valve Provided by Others 5.) Other Options: T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase T4A Auto Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase ET4 Electronic Toilet Overflow Preventer*, Requires (EFVP), Accessible Chase, & (WUCC-3010) or (WMSII) control FVT Flush Valve Connection (Back Spud Only) **ASFVC** Flush Valve Cover (Ligature-resistant, Top Spud Only)**

[Other Options CONTINUED:]

[<u>Ot</u>	ner Optic	ons CONTINUED:
	AP	Flush Valve Access Panel (Allows access to chase-mounted
		flush valve from fixture side)
	HS	Hinged White Plastic Seat (No Cover, not recommended
		for Maximum Security/Ligature-resistant use)
	DC	Decorator Color (Fixture exterior only - White)
	TF24H	Hard-wired Transformer, 110VAC to 24VAC*
	TF24P	Plug-in Transformer, 110VAC to 24VAC*
	HPS	High Polish Seat
	TSC	Toilet Shipping Cover
	RTH1	Wall Mounted Recessed Tissue Holder
		(Rear Mounted, Requires Accessible Chase)
	RTH2	Wall Mounted Recessed Tissue Holder
		(Front Mounted, 4-1/2" Depth)
	RFVB	Remote Flush Valve with Box
	REFVB	Remote Electronic Flush Valve with Box*
	Other	
	Other	

6.) Electronic Controls* (Must Use Electronic Flush Valve):

□ WUFC-4000 □ Pneutronic □ WMSII
□ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)

**LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

[CONTINUED IN NEXT COLUMN:]

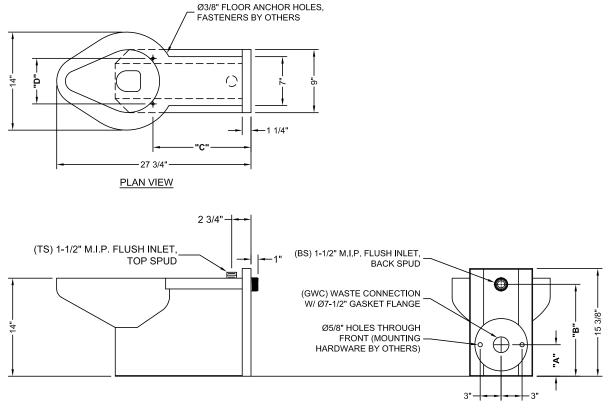
Ligature-resistant ADA Flush Valve Cover (Top Spud Only)**

SIDE VIEW

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____

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ASFVCADA



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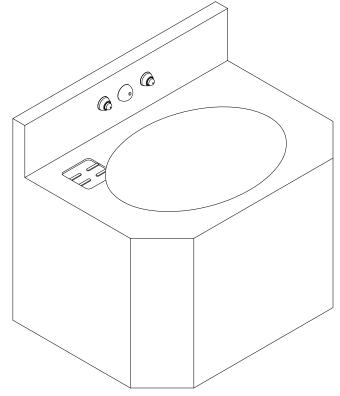
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REAR VIEW



HS-1013-96-RPF Stainless Steel Replacement 18" Wide Rear Mounted Lavatory



Recommended Specifications

(Unit may be shown with optional features)

Stainless Steel, Replacement, 18" Wide, Rear Mounted, Lavatory shall be: Willoughby Model No. **HS-1013-96-RPF**

Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #3 satin finish.

Standard lavatory shall include:

- Oval-shaped bowl, 13" x 9-1/2" x 6" deep
- Stainless steel penal bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" F.I.P.)
- Self-draining soap dish

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.





1.) Base Model Number:

☐ HS-1013-96-RPF

Stainless Steel, Replacement, 18" Wide, Rear Mounted, Lavatory

2.) Bubbler or Spout Selection:

■ BC Code Bubbler/Filler

□ BPH Ligature-resistant Bubbler/Filler**□ FLH Ligature-resistant Lavatory Filler**

3.) Lavatory Valve Selection:

NV No Valve (Select Hole Punching if needed)

☐ PSL1 Single Temp. Pneumatic Non-metering

☐ PSL2 Dual Temp. Pneumatic Non-metering

□ PML1 Single Temp. Pneumatic Metering
□ PML2 Dual Temp. Pneumatic Metering

□ PML2 Dual Temp. Pneumatic Metering□ E1L1 Single Temp. Electronic (pick control)*

□ E1L2 Dual Temp. Electronic (pick control)*

Valve Manifold Options:

Pneumatic or Electronic Only:

■ MA2 ■ MA3 ■ MA4

4.) Lavatory Valve Actuation:

□ PBH Ligature-resistant Push Buttons**

□ PZPB Ligature-resistant Piezo Piezo Push Buttons*/**

5.) Electronic Controls* (Must Use Electronic Push Button):

■ WUCC-3010

□ Pneutronic

□ WMSII

(The WUCC-3010 Control can be used to pair a Sink with a Toilet)

6.) Push Button Hole Punching:

If Less-Lavatory Valve, please specify push button hole sizes and locations on fixture backsplash:

7.) Lavatory Waste:

☐ EB Elbow Waste (1-1/2" F.I.P.) (Standard)

☐ SLOW Slow Drain

8.) Options:

☐ TH2

■ MT Wall Template

☐ TB1 Single Toothbrush Holder

☐ Right ☐ Left

☐ TB2 Dual Toothbrush Holder

□ Right □ Left

☐ TH1 Single Towel Hook

☐ Right ☐ Left
Dual Towel Hook

☐ Right ☐ Left

☐ ISH Integral Shelf

☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*

☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
☐ Other:

Other:

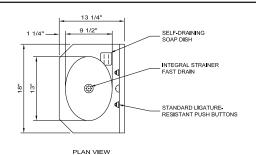
*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)

**LIGATURE-RESISTANT DISCLAIMER

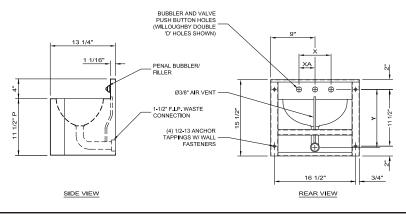
This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Type:

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SPECIFY X, XA, Y, &
HOLE Ø DIMENSIONS
AS NEEDED FOR
PUSH BUTTON HOLE
PUNCHING



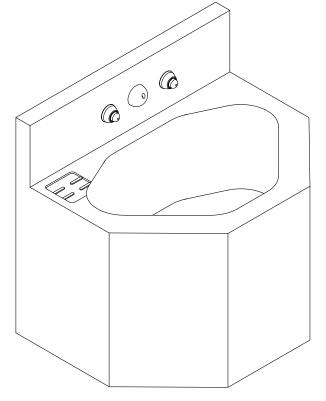
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HS-1013-46-15-RPF Stainless Steel Replacement 15" Wide Rear Mounted Lavatory



Recommended Specifications

(Unit may be shown with optional features)

Stainless Steel, Replacement, 15" Wide, Rear Mounted, Lavatory shall be: Willoughby Model No. **HS-1013-46-15-RPF**

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed surfaces polished to a #3 satin finish.

Standard lavatory shall include:

- Multi-sided bowl, 12-3/4" x 8-1/4" x 5" deep
- Stainless steel penal bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" F.I.P.)
- Self-draining soap dish

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.





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1.) Base Model Number:

☐ HS-1013-46-15-RPF

Stainless Steel, Replacement, 15" Wide, Rear Mounted, Lavatory

2.) Bubbler or Spout Selection:

■ BC Code Bubbler/Filler

□ BPH Ligature-resistant Bubbler/Filler**□ FLH Ligature-resistant Lavatory Filler**

3.) Lavatory Valve Selection:

NV No Valve (Select Hole Punching if needed)

☐ PSL1 Single Temp. Pneumatic Non-metering

☐ PSL2 Dual Temp. Pneumatic Non-metering

☐ PML1 Single Temp. Pneumatic Metering

☐ PML2 Dual Temp. Pneumatic Metering

□ E1L1 Single Temp. Electronic (pick control)*
 □ E1L2 Dual Temp. Electronic (pick control)*

Valve Manifold Options:

Pneumatic or Electronic Only:

□ MA2 □ MA3 □ MA4

4.) Lavatory Valve Actuation:

□ PBH Ligature-resistant Push Buttons**

□ PZPB Ligature-resistant Piezo Piezo Push Buttons*/**

5.) Electronic Controls* (Must Use Electronic Push Button):

■ WUCC-3010

■ Pneutronic

□ WMSII

(The WUCC-3010 Control can be used to pair a Sink with a Toilet)

6.) Push Button Hole Punching:

If Less-Lavatory Valve, please specify push button hole sizes and locations on fixture backsplash:

7.) Lavatory Waste:

☐ EB Elbow Waste (1-1/2" F.I.P.) (Standard)

■ SLOW Slow Drain

8.) Options:

■ MT Wall Template

☐ TB1 Single Toothbrush Holder

☐ Right ☐ Left

TB2 Dual Toothbrush Holder
☐ Right ☐ Left

TH1 Single Towel Hook

☐ Right ☐ Left

TH2 Dual Towel Hook
☐ Right

ISH Integral Shelf

☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*

☐ TF24P Plug-in Transformer, 110VAC to 24VAC*

Other:

□ Other: _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)

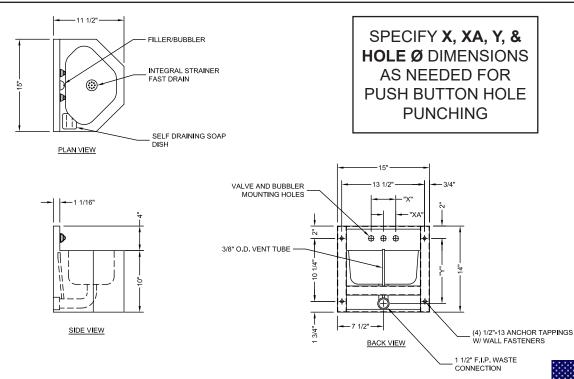
□ Left

**LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		





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ECF-1546-150-RPF Floor Mounted Floor Outlet **Replacement Combination** Lavatory/Toilet For Super Secur A-150



Recommended Specifications

(Unit may be shown with optional features) Anchoring hardware by others. Unit shall require chase area for

Floor Mounted, Floor Outlet, Replacement Combination lavatory/toilet (for Super Secur A-150) shall be: Willoughby Model No. ECF-1546-150-RPF (Designed to replace the discontinued **Super Secur A-150**)

Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be all welded, with exposed surfaces polished to a #3 satin finish.

Standard toilet shall include: elongated toilet bowl with toured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball. Toilet shall be blowout type which requires 35 psi minimum flushing pressure.

Standard lavatory shall include: oval shaped bowl, 13" x 9-1/2" x 6" deep, stainless steel penal filler/bubbler, fast drain with air vent, combined waste w/ cleanout** and self-draining soap dish.

Fixture shall withstand loadings up to 2,000 lbs. with no measurable deflection and loadings up to 5,000 lbs. with no permanent

Cabinet interior shall be sound deadened with fire-resistant material.

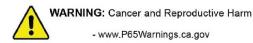
installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

** Check applicable plumbing code for acceptability.



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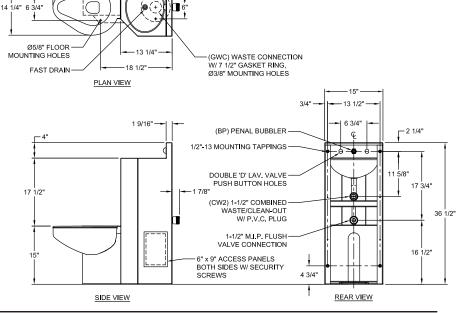
1.) Base Model Nu	mber:	8.) Lavato	ry Waste:	[0	ther Opt	tions CONTINUED:]		
□ ECF-1546-150-	-RPF Floor Mounted, Floor Outlet,	□ OV	Lavatory Overflow		HS	Hinged White Plastic Seat (No Cover, not		
	Replacement Combination	☐ CW1	Combined Waste w/o Clean-out			recommended for Maximum Security/Ligature-		
	Lavatory/Toilet for	☐ CW2	Combined Waste w/ Clean-out (Standard)			resistant use)		
	Super Secur A-150	☐ SLOW	/ Slow Drain		TB2			
0) Tailat Ouisustati		0) Tailat)	Alexandre		THA	L R		
2.) Toilet OrientationC Center		9.) Toilet \	Gasketed Waste Connection (Standard)		TH1	Single Towel Hook L L LF L C L RF L R		
u C Cente	ered	u GWC	Gasketed Waste Connection (Standard)	п	TH2	Dual Towel Hook		
3.) Fixture Mountin	na:	10.) Flush	Valve GPF'S (Must Specify):	_				
□ ON On-F	•	□ FV	Hydraulic Flush Valve (Includes Actuator)		□ DC Decorator Color (Fixture exterior only - White)			
			1.28 GPF HET (4.8 Lpf)		TF24H			
4.) Bubbler Selecti	ion:		☐ 1.6 GPF ULF (6.0 Lpf)		TF24P	Plug-in Transformer, 110VAC to 24VAC*		
•	ture-resistant Bubbler/Filler		☐ 3.5 GPF (13.2 Lpf)		HPS	High Polish Seat		
(Star	ndard)**	☐ EFVP	Electronic Flush Valve w/ (PZPB)		VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area)		
	e Bubbler/Filler (w/ Mouth Guard)		Ligature-resistant Piezo Push Button			□ L □ LF □ RF □ R		
☐ FLH Ligat	ture-resistant Lav. Filler**		(Pick Control)*/**			12 Gauge Cabinet		
			☐ 1.28 GPF HET (4.8 Lpf)			Toilet Shipping Cover		
5.) Lavatory Valve			□ 1.6 GPF ULF (6.0 Lpf)					
□ NV No Va		- NEV	□ 3.5 GPF (13.2 Lpf)		Other			
	e Temp. Pneumatic Non-metering	☐ NFV	Flush Valve Provided by Others	+/1	D 440			
	Temp. Pneumatic Non-metering	44 \ 0 4: -				V power through ground fault interrupter (GFCI)		
	e Temp. Pneumatic Metering Temp. Pneumatic Metering	11.) Optio	Manual Reset Toilet Overflow Preventer,	Г	есертаск	e / breaker)		
	e Temp. Electronic (Pick Control)*	u 14	Req. (FV) Flush Valve and Accessible	**	LIGATU	RE-RESISTANT DISCLAIMER		
	Temp. Electronic (Pick Control)*		Chase			uct is designed to minimize ligature points. While		
Valve Manifold Op		□ T4A	Auto Reset Toilet Overflow Preventer,			ort has been made to reduce the possibility of ligatu		
Pneumatic or Ele		- 1-77	Reg. (FV) Flush Valve and Accessible			s product does not eliminate all risks. Ligature-Res		
□ MA2 □ M	•		Chase			icts by Willoughby Industries are to be used in con-		
		□ ET4	Electronic Toilet Overflow Preventer,			rith, not as a replacement for, trained professionals.		
6.) Lavatory Valve	Actuation:		Requires (EFVP) & (WUCC-3010) or	,				
,	ure-resistant Push Buttons**		(WMSII)*					
☐ PZPB Ligati	ure-resistant Piezo Piezo Push	☐ TFE	Toilet Flush Extension					
Butto	ns*/**		(Specify if more than 1-7/8")					
		□ FVT	Flush Valve Connection					
7.) Electronic Con	trols*	□ TB1_	Single Toothbrush Holder					
(Must Use Electr	ronic Lavatory & Flush Valves):		□ L □ R					
□ WUCC-3010	□ Pneutronic □ WMSII	□ RTH_	_ Recessed Tissue Holder □ L □ LF □ C □ RF □ R					
			[CONTINUED IN NEXT COLUMN:]					
Approved E	or Manufacturing By:		Date:			Company:		

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____

SELF DRAINING SOAP DISH

4 1/4" -

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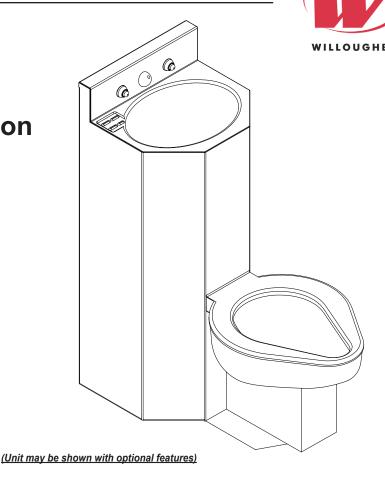
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ECW-1546-150-RPF Floor Mounted Wall Outlet Replacement Combination Lavatory/Toilet For Super Secur A-150



Recommended Specifications



Anchoring hardware by others. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

** Check applicable plumbing code for acceptability.

Floor Mounted, Wall Outlet, Replacement Combination lavatory/toilet (for Super Secur A-150) shall be: Willoughby Model No. **ECW-1546-150-RPF** (Designed to replace the discontinued **Super Secur A-150**)

Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #3 satin finish.

Standard toilet shall include: elongated toilet bowl with contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball. Toilet shall be blowout type which requires 35 psi minimum flushing pressure.

Standard lavatory shall include: oval shaped bowl, 13" x 9-1/2" x 6" deep, stainless steel penal filler/bubbler, fast drain with air vent, combined waste w/ cleanout** and self-draining soap dish.

Fixture shall withstand loadings up to 2,000 lbs. with no measurable deflection and loadings up to 5,000 lbs. with no permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

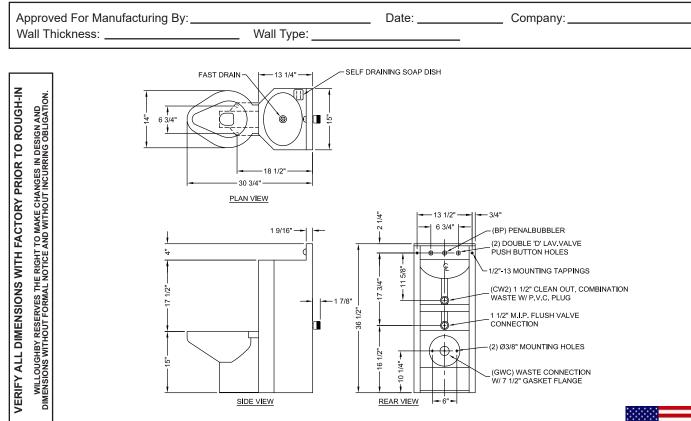
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1.) Base Model Number:			8.)	Lavator	y Waste:		[Other Options CONTINUED:]					
□ ECW-	1546-150-RPF	Floor Mounted, Wall Outlet,		OV	Lavatory Overflow		RTH	Recessed Tissue Holder				
		Replacement Combination		CW1	Combined Waste w/o Clean-out			□ L □ LF □ C □ RF □ R				
		Lavatory/Toilet for		CW2	Combined Waste w/ Clean-out (Standard)		TB1	Single Toothbrush Holder				
		Super Secur A-150		SLOW	Slow Drain			□ L □ R				
							TB2	Dual Toothbrush Holder				
2.) Toilet 0	Prientation:		9.) Toilet Waste:					□ L □ R				
□ C	Centered			PC3	Pinned Clean-Out Plug PVC-3"		TH1	Single Towel Hook				
				PCB3	Pinned Clean-Out Plug Brass-3"			□ L □ LF □ C □ RF □ R				
3.) Fixture	Mounting:			PC4	Pinned Clean-Out Plug PVC-4"		TH2	Dual Towel Hook				
■ ON	On-Floor			PCB4	Pinned Clean-Out Plug Brass-4"			□ L □ LF □ C □ RF □ R				
				GWC	Gasketed Waste Connection (Standard)		DC	Decorator Color (Fixture exterior only - White)				
4.) Bubble	r Selection:						TF24H	Hard-wired Transformer, 110VAC to 24VAC*				
□ BPH	Ligature-res	sistant Bubbler/Filler	10) Flush	Valve GPF'S (Must Specify):		TF24P	Plug-in Transformer, 110VAC to 24VAC*				
	(Standard)*	*		FV	Hydraulic Flush Valve (Includes Actuator)		HPS	High Polish Seat				
□ BC	Code Bubbl	ler/Filler (w/ Mouth Guard)			☐ 1.28 GPF HET (4.8 Lpf)		VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in ² free area)				
☐ FLH	Ligature-res	sistant Lav. Filler**			☐ 1.6 GPF ULF (6.0 Lpf)			O L O LF O RF O R				
	Ü				□ 3.5 GPF (13.2 Lpf)		TG	12 Gauge Cabinet				
5.) Lavato	ry Valve Select	ion:		EFVP	Electronic Flush Valve w/ (PZPB)		TSC	Toilet Shipping Cover				
□ NV	No Valve				Ligature-resistant Piezo Push Button		Other	•				
□ PSL1	Single Temp	. Pneumatic Non-metering			(Pick Control)*/**		Other					
□ PSL2	Dual Temp. I	Pneumatic Non-metering			☐ 1.28 GPF HET (4.8 Lpf)							
□ PML1	Single Temp	. Pneumatic Metering			☐ 1.6 GPF ULF (6.0 Lpf)	*(R	Reg. 110\	/ power through ground fault interrupter (GFCI)				
□ PML2		Pneumatic Metering			□ 3.5 GPF (13.2 Lpf)	,		e / breaker)				
□ E1L1		. Electronic (Pick Control)*		NFV	Flush Valve Provided by Others			,				
□ E1L2		Electronic (Pick Control)*			,	**LIGATURE-RESISTANT DISCLAIMER						
Valve Mar	ifold Options:	,						act is designed to minimize ligature points. While				
Pneumatic or Electronic Only:								rt has been made to reduce the possibility of				
		□ MA4			Req.(FV)			pints, this product does not eliminate all risks.				
				T4A	Auto Reset Toilet Overflow Preventer,			Resistant products by Willoughby Industries are to				
6.) Lavato	ry Valve Actuat	tion:	_		Reg. (FV)			conjunction with, not as a replacement for, trained				
□ PBH	-	istant Push Buttons**		ET4	Electronic Toilet Overflow Preventer,		ofession					
□ PZPB	-	istant Piezo Piezo Push	_		Requires (EFVP) & (WUCC-3010) or (WMSII)*	ļ-··						
	Buttons*/**	.0		TFE	Toilet Flush Extension							
	Buttorio /				(Specify if more than 1-7/8")							
7) Flectro	nic Controls*			FVT	Flush Valve Connection							
,		avatory & Flush Valves):		HS	Hinged White Plastic Seat (No Cover, not							
(Must Use Electronic Lavatory & Flush Valves): □ WUCC-3010 □ Pneutronic □ WMSII		_		recommended for Maximum Security/Ligature-								
					resistant use)							
					[CONTINUED IN NEXT COLUMN:]							



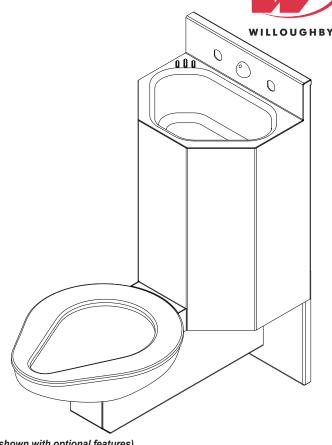
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MADE IN THE U.S.A.

ECW-1546-350-RPF Wall Mounted **Wall Outlet Replacement Combination** Lavatory/Toilet For Super Secur A-350



Recommended Specifications



(Unit may be shown with optional features)

Wall Mounted, Wall Outlet, Replacement Combination lavatory/toilet (for Super Secur A-350) shall be: Willoughby Model No. ECW-1546-350-RPF (Designed to replace the discontinued **Super Secur A-350**)

Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #3 satin finish.

Standard toilet shall include: elongated toilet bowl with toured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball. Toilet shall be blowout type which requires 35 psi minimum flushing pressure.

Standard lavatory shall include: multi-sided shaped bowl, 12-3/4" x 8-3/4" x 5" deep, stainless steel penal filler/bubbler, fast drain with air vent, combined waste w/ cleanout** and self-draining soap dish.

Fixture shall withstand loadings up to 2,000 lbs. with no measurable deflection and loadings up to 5,000 lbs. with no permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring hardware by others. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

** Check applicable plumbing code for acceptability.



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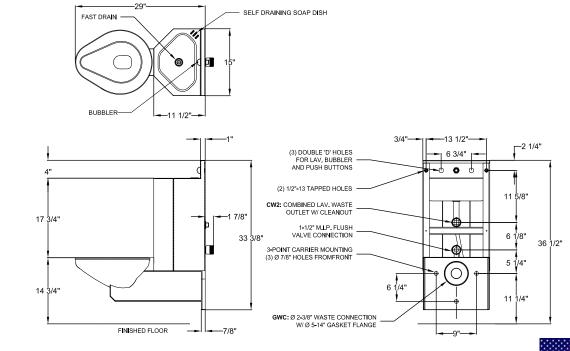
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1.) Base Model Number:		8.)	Lavator	y Waste:			[Other Options CONTINUED:]		
☐ ECW-1546-350-RPF W	/all Mounted, Wall Outlet,		OV	Lavatory Overflow		RTH_	Recessed Tissue Holder		
R	eplacement Combination		CW1	Combined Waste w/o Clean-out					
La	avatory/Toilet for		CW2	Combined Waste w/ Clean-out (Standard)		TB1	Single Toothbrush Holder		
S	uper Secur A-350		SLOW	Slow Drain			o L o R		
						TB2	Dual Toothbrush Holder		
2.) Toilet Orientation:		9.) Toilet Waste:					L R		
☐ C Centered		<u> </u>		Pinned Clean-Out Plug PVC-3"		TH1	Single Towel Hook		
			PCB3	Pinned Clean-Out Plug Brass-3"	_				
3.) Fixture Mounting:		_	PC4	Pinned Clean-Out Plug PVC-4"	П	TH2			
☐ OF Off-Floor		_	PCB4	Pinned Clean-Out Plug Brass-4"	_	1112	L L LF C RF R		
a 01 011-1001		_	GWC	Gasketed Waste Connection (Standard)		DC	Decorator Color (Fixture exterior only - White)		
4.) Bubbler Selection:		_	GVVC	Gasketed Waste Connection (Standard)		TF24H	,		
,	ant Bubbler/Filler	10.) Flush Valve:			,				
3	ant Bubbler/Filler		,				,		
(Standard)**		ш	FV	Hydraulic Flush Valve (Includes Actuator)		HPS	High Polish Seat		
	Filler (w/ Mouth Guard)			☐ 1.28 GPF HET (4.8 Lpf)		VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area)		
☐ FLH Ligature-resista	ant Lav. Filler**			☐ 1.6 GPF ULF (6.0 Lpf)			L L LF L RF L R		
		_		□ 3.5 GPF (13.2 Lpf)		TG	12 Gauge Cabinet		
5.) Lavatory Valve Selection:	:	ш	EFVP	Electronic Flush Valve w/ (PZPB)		TSC	Toilet Shipping Cover		
■ NV No Valve				Ligature-resistant Piezo Push Button		Other			
	neumatic Non-metering			(Pick Control)*/**		Other			
	umatic Non-metering			■ 1.28 GPF HET (4.8 Lpf)					
PML1 Single Temp. Pr	neumatic Metering			■ 1.6 GPF ULF (6.0 Lpf)	*(R	eq. 110\	/ power through ground fault interrupter (GFCI)		
□ PML2 Dual Temp. Pne	umatic Metering			☐ 3.5 GPF (13.2 Lpf)	re	ceptacle	e / breaker)		
☐ E1L1 Single Temp. Ele	ectronic (Pick Control)*		NFV	Flush Valve Provided by Others					
☐ E1L2 Dual Temp. Elec	ctronic (Pick Control)*		,			**LIGATURE-RESISTANT DISCLAIMER			
Valve Manifold Options:		11.) Options			This product is designed to minimize ligature points. While				
Pneumatic or Electronic Onl	'y:	☐ T4 Manual Reset Toilet Overflow Preventer,			every effort has been made to reduce the possibility of				
□ MA2 □ MA3 □	MA4			Req.(FV)	liga	ature po	pints, this product does not eliminate all risks.		
			T4A	Auto Reset Toilet Overflow Preventer,	Liq	ature-R	Resistant products by Willoughby Industries are to		
6.) Lavatory Valve Actuation	:			Req. (FV)	be	used in	conjunction with, not as a replacement for, trained		
	nt Push Buttons**		ET4	Electronic Toilet Overflow Preventer,		fession			
· ·	nt Piezo Piezo Push			Requires (EFVP) & (WUCC-3010) or (WMSII)*	'				
Buttons*/**			TFE	Toilet Flush Extension					
				(Specify if more than 1-7/8")					
7.) Electronic Controls*			FVT	Flush Valve Connection					
(Must Use Electronic Lavatory & Flush Valves):		_	HS	Hinged White Plastic Seat (No Cover, not					
□ WUCC-3010 □ Pneutronic □ WMSII		_	110	recommended for Maximum Security/Ligature-					
				resistant use)					
				[CONTINUED IN NEXT COLUMN:]					
				•					

Approved For Manufacturing By: ______ Date: _____ Company: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.

Wall Thickness: _



Wall Type:

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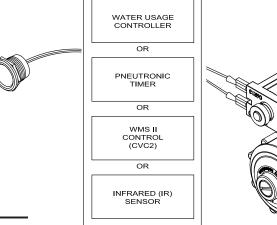


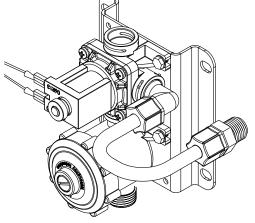
WILLOUGHRY

E1L1 Single Temperature Lead-free Electronic Valve









Recommended Specifications

Single Temperature, Lead-free, Electronic Valve assembly shall be: Willoughby Model No. **E1L1** (Select from options list)

Stainless steel push buttons on the fixture shall be wired to an appropriate electronic valve control (select from the list of control choices). The vandal-resistant push buttons shall be keyed/non-removable from the front of the fixture and shall require less than 5 lbs of force to operate.

The plastic valve checkstop/strainers shall feature integral mounting points. Replaceable stainless steel strainer and optional 0.5 GPM flow control can be serviced without disturbing the supply line. Assembly shall use flexible tubing to connect to the filler/bubbler/shower head. Water inlet is 1/2" MPT and is reversible for either top or bottom supply. A galvanized wall mounting plate is provided, wall anchoring hardware provided by others.

Flexible tubing is supplied for walls up to 8" thick. Recommended operating pressure shall be 35-70 psi. Valve shall withstand pressures up to 90 psi. Recommended max operation tempature is 110° Fahrenheit. Cost-reducing manifolded valves shall consist of multiple valve assemblies served by a common supply line. A 24 volt AC source shall be required for a timer and valve operation, 24 VAC power transformer sold separately.

Valve complies with NSF-61 standard.

**LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

F	low	Se	lection	(c	hoos	se	one)):
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- 0.5 GPM Flow (lavatories)
- 1.0 GPM Flow (bottle fillers)
- ☐ 1.5 GPM Flow (showers)
- 2.0 GPM Flow (showers)
- ☐ NFC (No Flow Control) (showers, up to MA2)

Control:

- ☐ WUCC-3010 ☐ WUSC-2200 ☐ WUSC-2400
- ☐ Pneutronic Timer ☐ WMS II Control (CVC2)
- ☐ Infrared (IR) Sensor

Push Button*:

- □ PZPB Ligature-resistant Piezo
 - Push Button**

*Not required for IR

Options:

- -MA2 (Double Manifold, no flow limitation)
- -MA3 (Triple Manifold, 0.5 GPM flow only)
- -MA4 (Quad Manifold, 0.5 GPM flow only)
- ☐ -TMV In-line Thermostatic Mixing Valve



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E1L2 Dual Temperature Lead-free **Electronic Valve**







Dual Temperature, Lead-free Electronic Valve assembly shall be: Willoughby Model No. E1L2 (Select from options list)

Stainless steel push buttons on the fixture shall be wired to an appropriate electronic valve control (select from the list of control choices). The vandal-resistant push buttons shall be keyed/ non-removable from the front of the fixture and shall require less than 5 lbs of force to operate.

The plastic valve checkstop/strainers shall feature integral mounting points. Replaceable stainless steel strainer and optional 0.5 GPM flow control can be serviced without disturbing the supply line. Assembly shall use flexible tubing to connect to the filler/bubbler/shower head. Water inlet is 1/2" MPT and is reversible for either top or bottom supply. A galvanized wall mounting plate is provided, wall anchoring hardware provided by others.

Flexible tubing is supplied for walls up to 8" thick. Recommended operating pressure shall be 35-70 psi. Valve shall withstand pressures up to 90 psi. Recommended max operation tempature is 110° Fahrenheit. Cost-reducing manifolded valves shall consist of multiple valve assemblies served by a common supply line. A 24 volt AC source shall be required for a timer and valve operation., 24 VAC power transformer sold separately.

Valve complies with NSF-61 standard.

* This is not a substitute for a thermostatic mixing valve. The delivered water temperature is the result of the two combined inlet temperatures and cannot be adjusted by this valve assembly. The hot side of the valve must be supplied with tempered water.

**LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

OR	
PNEUTRONIC TIMER	
OR	
WMS II CONTROL (CVC2)	
OR	
INFRARED (IR) SENSOR	

Flow Selection (choose one):

- 0.5 GPM Flow (lavatories)
- ☐ 1.5 GPM Flow (showers)
- 2.0 GPM Flow (showers)
- NFC (No Flow Control) (showers, up to MA2)

Control:

WATER USAGE

- WUCC-3010 WUSC-2200 WUSC-2400 ☐ Pneutronic Timer ☐ WMS II Control (CVC2)
- ☐ Infrared (IR) Sensor

Push Buttons*:

□ PZPB Ligature-resistant Piezo

Push Button**

*Not required for IR

Options:

- -MA2 (Double Manifold, no flow limitations)
- ☐ -MA3 (Triple Manifold, 0.5 GPM flow only)
- ☐ -MA4 (Quad Manifold, 0.5 GPM flow only)
- ☐ -TMV In-line Thermostatic Mixing Valve



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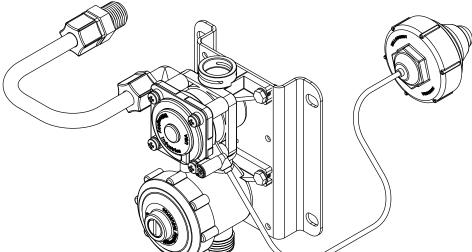
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WILLOUGHBY

PML1 / PSL1
Single Temperature
Lead-free
Pneumatic Valve





Recommended Specifications

(PML1 SHOWN)

Single Temperature, Lead-free Pneumatic Valve assembly shall be: Willoughby Model No. P__L1 (Select from options list)

The valve assembly shall use diaphragms to pneumatically activate non-hold-open metering (5-90 second) or non-metering pneumatic valves. The vandal-resistant push buttons shall be keyed/non-removable from the front of the fixture and shall require less than 5 lbs of force to operate.

The plastic valve checkstop/strainer shall feature integral mounting points. Replaceable stainless steel strainer and optional 0.5 GPM flow control can be serviced without disturbing the supply line. Assembly shall use flexible tubing to connect to the filler/bubbler/shower head. Water inlet is 1/2" MPT and is reversible for either top or bottom supply. A galvanized wall mounting plate is provided, wall anchoring hardware provided by others.

Flexible tubing is supplied for walls up to 8" thick. Recommended operating pressure shall be 35-70 psi. Valve shall withstand pressures up to 90 psi. Recommended max operation tempature is 110° Fahrenheit. The valve must be supplied with tempered water. The maximum length for tubing between the push button actuator and the valve is 10 feet. The pneumatic system is entirely self-contained and shall require no outside air supply. Cost reducing manifolded valves shall consist of multiple valve assemblies served by a common supply line.

Valve complies with NSF-61 standard.

*LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

М	ode	۸Iج	lu	m	he	r

□ PML1 Single Temp. Metering□ PSL1 Single Temp. Non-metering

Flow Selection (choose one):

- 0.5 GPM Flow (lavatories)
- 1.0 GPM Flow (bottle fillers)
- ☐ 1.5 GPM Flow (showers)
- 2.0 GPM Flow (showers)
- ☐ NFC (No Flow Control) (showers, up to MA2)

Push Button:

☐ PBH Ligature-resistant Pneumatic

Push Button*

☐ PLPB Pneumatic Palm Push Button

Options:

- -MA2 (Double Manifold, No flow limitation)
- ☐ -MA3 (Triple Manifold, 0.5 GPM flow only)
- -MA4 (Quad Manifold, 0.5 GPM flow only)
- ☐ -TMV In-line Thermostatic Mixing Valve



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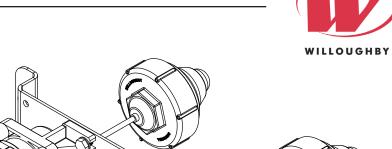
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S8-3

(PML2 SHOWN)

PML2 / PSL2 **Dual Temperature** Lead-free **Pneumatic Valve**







Dual Temperature, Lead-free Pneumatic Valve assembly shall be: Willoughby Model No. P_L2 (Select from options list)

The valve assembly shall use diaphragms to pneumatically activate non-hold open metering (5-90 second) or non-metering pneumatic valves. The vandal-resistant push buttons shall be keyed/non-removable from the front of the fixture and shall require less than 5 lbs of force to operate.

The plastic valve checkstop/strainer shall feature integral mounting points. Replaceable stainless steel strainer and optional 0.5 GPM flow control can be serviced without disturbing the supply line. Assembly shall use flexible tubing to connect to the filler/bubbler/shower head. Water inlet is 1/2" MPT and is reversible for either top or bottom supply. A galvanized wall mounting plate is provided, wall anchoring hardware provided by others.

Flexible tubing is supplied for walls up to 8" thick. Recommended operating pressure shall be 35-70 psi. Valve shall withstand pressures up to 90 psi. Recommended max operation tempature is 110° Fahrenheit. The maximum length for tubing between the push button actuator and the valve is 10 feet. The pneumatic system is entirely self-contained and shall require no outside air supply. Cost reducing manifolded valves shall consist of multiple valve assemblies served by a common supply line. Valve complies with NSF-61 standard.

* This is not a substitute for a thermostatic mixing valve. The delivered water temperature is the result of the two combined inlet temperatures and cannot be adjusted by this valve assembly. The hot side of the valve must be supplied with tempered water.

*LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

M	0	de	ΙN	u	m	be	er:
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☐ PML2 Dual Temp. Metering

☐ PSL2 Dual Temp. Non-metering

Flow Selection (choose one):

■ 0.5 GPM Flow (lavatories)

■ 1.5 GPM Flow (showers)

□ 2.0 GPM Flow (showers)

☐ NFC (No Flow Control) (showers, up to MA2)

Push Button:

☐ PBH Ligature-resistant Pneumatic

Push Button*

Pneumatic Palm Push Button ☐ PLPB

Options:

☐ -MA2 (Double Manifold, No flow limitation)

☐ -MA3 (Triple Manifold, 0.5 GPM flow only)

■ -MA4 (Quad Manifold, 0.5 GPM flow only)

☐ -TMV In-line Thermostatic Mixing Valve



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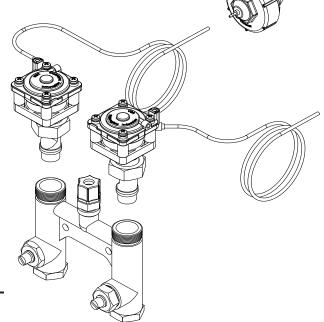


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WRMV / WRSCV Retrofit Valve Assemblies







Recommended Specifications

Retrofit Valve Assembly shall be: Willoughby Model No. **WR___V-__** (Select from options list)

The <u>Willoughby Retrofit Metering Valve Assembly (WRMV)</u> and <u>Willoughby Retrofit Non-metering Valve Assembly (WRSCV)</u> are designed to easily convert single and dual temperature mechanical valve cartridges, pushrods, and toggles to state-of-the-art pneumatically operated metering or non-metering valve assemblies.

Existing Willoughby valve cartridges manufactured since 1985 can be directly replaced with WRMV and WRSCV retrofit valve assembly kits, specifically Willoughby valve models:

- WM-1 (Single temperature mechanical metering)
- WM-2 (Dual temperature mechanical metering)
- WSC-1 (Single temperature mechanical non-metering)
- WSC-2 (Dual temperature mechanical non-metering)

Certain existing competitors' valves may also be converted to pneumatic operation using the Willoughby WRMV or WRSCV retrofit valve assembly kits. However, conversions may require field modification of existing push button holes in fixture; consult with a Willoughby factory representative for additional details.

The WRMV and WRSCV valve assembly kits shall include:

- Ligature-resistant Push button-operated pneumatic diaphragm pumps*
- Non-hold-open metering (5-90 seconds) or non-metering pneumatic valve cartridges
- 5' of 1/8" tubing for each valve

(All components for both the WRMV and WRSCV kits are the same except for the integral pneumatic valves.)

Vandal-resistant stainless steel push buttons attached to the diaphragm pumps activate the integral pneumatic valve within each valve cartridge via 1/8" pneumatic tubing. The vandal-resistant push buttons shall be keyed/non-removable from the front of the fixture and shall require less than 5 lbs of force to operate.

The pneumatic system is entirely self-contained and requires no outside air supply, eliminating traditional mechanical toggles and pushrod components. Recommended operating pressure will be 35-70 psi. Valves shall withstand pressures up to 90 psi. Recommended max operation tempature is 110° Fahrenheit.

*LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

Model Number:

☐ WRMV-1B Single Temp. Metering Valves☐ WRMV-2B Dual Temp. Metering Valves☐ WRSCV-1B Single Temp. Non-metering Valves

☐ WRSCV-2B Dual Temp. Non-metering Valves



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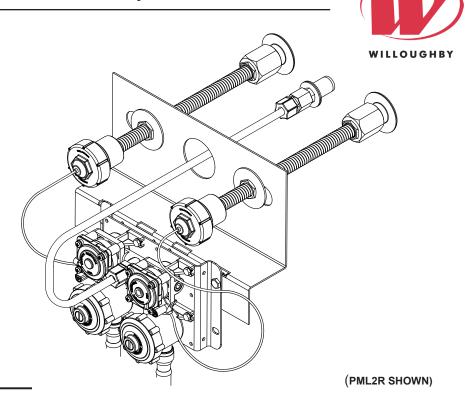
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PML2R / PSL2R Dual Temperature Replacement Pneumatic Valve



Recommended Specifications

Dual Temperature, Lead-free, Replacement Pneumatic Valve assembly shall be: Willoughby Model No. **P__L2R** (Select from options list)

This valve is designed to replace existing valves on china and aluminum fixtures with integral bubblers. The valve assembly shall use diaphragms to pneumatically activate non-hold open metering (5-90 second) or non-metering pneumatic valves. The vandal-resistant push buttons shall be keyed/non-removable from the front of the fixture and shall require less than 5 lbs of force to operate.

The plastic valve checkstop/strainer shall feature integral mounting points. Replaceable stainless steel strainer and optional 0.5 GPM flow control can be serviced without disturbing the supply line. Assembly shall use flexible tubing to connect to the filler/bubbler/ shower head. Water inlet is 1/2" MPT and is reversible for either top or bottom supply. A galvanized wall mounting plate is provided, wall anchoring hardware provided by others.

Flexible tubing is supplied for walls up to 8" thick. Recommended operating pressure shall be 35-70 psi. Valve shall withstand pressures up to 90 psi. Recommended max operation tempature is 110° Fahrenheit. The maximum length for tubing between the push button actuator and the valve is 10 feet. The pneumatic system is entirely self-contained and shall require no outside air supply. Cost reducing manifolded valves shall consist of multiple valve assemblies served by a common supply line.

Valve complies with NSF-61 standard.

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□ PML2R□ PSL2R□ Dual Temp. Metering□ Dual Temp. Non-metering

Inlet Connection (choose one):

3/4"

□ 1"

Options:

- -MA2 (Double Manifold, No flow limitation)
- -MA3 (Triple Manifold, 0.5 GPM flow only)
- ☐ -MA4 (Quad Manifold, 0.5 GPM flow only)
- ☐ -TMV In-line Thermostatic Mixing Valve
- * This is not a substitute for a thermostatic mixing valve. The delivered water temperature is the result of the two combined inlet temperatures and cannot be adjusted by this valve assembly. The hot side of the valve must be supplied with tempered water.
- ** Push buttons require minimum Ø1-5/16" round or 1-1/8" square backsplash openings.



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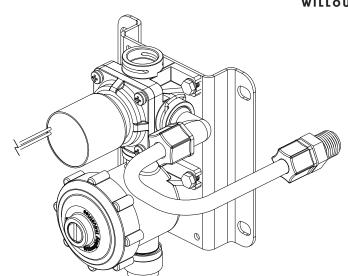
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EBL1 Battery Operated Single Temperature Lead-free Electronic Valve





Recommended Specifications

Battery Operated, Single Temperature, Lead-free, Electronic Valve assembly shall be: Willoughby Model No. **EBL1** (Select from options list)

The Battery Operated Electronic Valve assembly uses a 9V DC battery pack to power a latching valve coil solenoid controlled by an infrared sensor. The vandal-resistant infrared sensors shall be non-removable from the front of the fixture, each activating an independent valve assembly within 1-2 seconds of detection.

The plastic valve checkstop/strainers shall feature integral mounting points. Replaceable stainless steel strainer and optional 0.5 GPM flow control can be serviced without disturbing the supply line. Assembly shall use flexible tubing to connect to the spray head/filler/bubbler. Water inlet is 1/2" MPT and is reversible for either top or bottom supply. A galvanized mounting plate is provided for mounting within the fixture.

Recommended operating pressure shall be 35-60 psi. Recommended max operation tempature is 110° Fahrenheit. Cost-reducing manifolded valves shall consist of multiple valve assemblies served by a common supply line. Each 9V latching valve coil shall require an individual DC battery pack using AA-type batteries for valve operation (supplied by manufacturer).

Valve complies with NSF-61 standard.

Model Number:

■ EBL1 Single Temp. Battery Operated

Flow Selection (choose one):

- 0.5 GPM Flow (lavatories)
- 1.0 GPM Flow (bottle fillers)
- ☐ 1.5 GPM Flow (showers)
- □ 2.0 GPM Flow (showers)
- ☐ NFC (No Flow Control) (showers, up to MA2)

Control:

- ☐ Infrared (IR) Sensor

Options:

- ☐ -MA2 (Double Manifold, no flow limitation)
- ☐ -MA3 (Triple Manifold, 0.5 GPM flow only)
- -MA4 (Quad Manifold, 0.5 GPM flow only)
- ☐ -TMV In-line Thermostatic Mixing Valve



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EBL₂ **Battery Operated Dual Temperature** Lead-free **Electronic Valve**





Recommended Specifications

Battery Operated, Dual Temperature, Lead-free, Electronic Valve assembly shall be: Willoughby Model No. EBL2 (Select from options list)

The Battery Operated Electronic Valve assembly uses two 9V DC battery packs to power two latching valve coil solenoids controlled by WULCB-5400 controller.

The plastic valve checkstop/strainers shall feature integral mounting points. Replaceable stainless steel strainer and optional flow controlers can be serviced without disturbing the supply line. Assembly shall use flexible tubing to connect to the spray head/ filler/bubbler. Water inlet is 1/2" MPT and is reversible for either top or bottom supply. A galvanized mounting plate is provided for mounting within the fixture.

Recommended operating pressure shall be 35-60 psi. Recommended max operation tempature is 110° Fahrenheit. Cost-reducing manifolded valves shall consist of multiple valve assemblies served by a common supply line. Each 9V latching valve coil shall require an individual DC battery pack using AA-type batteries for valve operation (supplied by manufacturer).

Valve complies with NSF-61 standard.

Model Number:

☐ EBL2 Dual Temp. Battery Operated

Flow Selection (choose one):

- 0.5 GPM Flow (lavatories)
- 1.0 GPM Flow (bottle fillers)
- ☐ 1.5 GPM Flow (showers)
- 2.0 GPM Flow (showers)
- ☐ NFC (No Flow Control) (showers, up to MA2)

Control:

■ Lavatory Control w/ PZPB, Battery Operated (WULCB-5400)

Options:

- ☐ -MA2 (Double Manifold, no flow limitation)
- ☐ -MA3 (Triple Manifold, 0.5 GPM flow only)
- ☐ -MA4 (Quad Manifold, 0.5 GPM flow only)
- -TMV In-line Thermostatic Mixing Valve

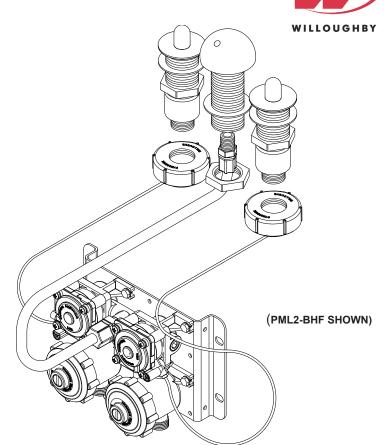


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PML-BHF Lead-free Behavioral Healthcare Pneumatic Faucet





Recommended Specifications

Lead-free Behavioral Healthcare Pneumatic Faucet shall be: Willoughby Model No. **PML-BHF** (Select from options list on the following page)

The Behavioral Healthcare Faucet is designed to either retrofit existing lavatories or be specified for new design. Faucet shall be deck mounted, requiring (3) Ø1-5/16" to Ø1-1/2" faucet holes (faucet holes between 4" centerset to 8" centerset are recommended). Bubbler and push buttons shall be machined from T303 stainless steel and shall have ligature-resistant hemispherical designs.

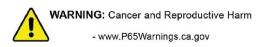
Valve constructed of stainless steel and plastic materials and complies with NSF-61 standard. The valve assembly shall use a diaphragm to pneumatically activate a non-hold-open metering (5-90 second) pneumatic valve assembly. The push button shall require less than 5 lbs. of force to operate. Vandal resistant stainless steel push button and keyed pump body shall be non-removable from the top of the fixture deck. The valve flow is 0.5 GPM.

The plastic valve checkstop/strainer shall feature integral mounting points. Replaceable stainless steel strainer and optional 0.5 GPM flow control can be serviced without disturbing the supply line. Assembly shall use flexible tubing to connect to the filler/bubbler. Water inlet is 1/2" MPT and is reversible for either top or bottom supply. A galvanized wall mounting plate is provided, wall anchoring hardware provided by others.

Recommended operating pressure shall be 35-70 psi. Valve shall withstand pressures up to 90 psi. Recommended max operation tempature is 110° Fahrenheit. The maximum length for tubing between the push button actuator and the valve is 10 feet. The pneumatic system is entirely self-contained and shall require no outside air supply.

* The PML2 valve is not a substitute for a thermostatic mixing valve. In dual temperature valves, the delivered water temperature is the result of the two combined inlet temperatures and cannot be adjusted by this valve assembly. The hot side of the valve must be supplied with tempered water.

An In-line Thermostatic Mixing Valve (TMV) is available (select from options list on the following page).





□ PML1-BHF Single Temperature Metering Valve□ PML2-BHF Dual Temperature Metering Valve

2.) Options:

☐ TMV In-line Thermostatic Mixing Valve

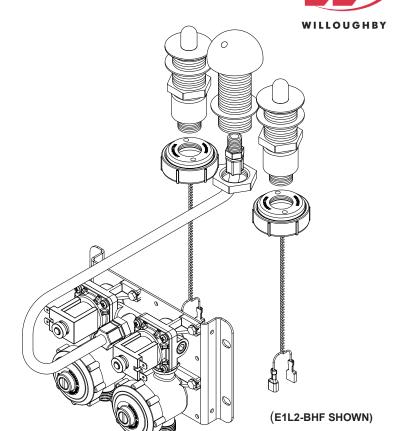
Approved I	For Manufacturing By: ness:	. Wall Type:	Date:	Company:	
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.	EXISTING LAVATORY - (NOT PROVIDED W/ VALVE) WASHER (P/N: 600068) -	o o o o o o o o o o o o o o o o o o o		CHINA LAVATORY PUSH BU ACCOMMODATE LAV. DEC	
VERIFY ALL DIMENSIONS WILLOUGHBY RESERVES TH DIMENSIONS WITHOUT FORMAL	WATER SUPPLY TUBING (P/N: 600523) (2) 6" FLEXHOSES (P/N: 980506)			ASSE (P/N: 6 NYLO (P/N: 6 PNEU RED (I BLUE	IIINA LAV. PUSH BUTTON MBLIES, Ø1-1/16" 600312) N CONNECTOR 320566) MATIC TUBING: P/N: 600470) (P/N: 600475) FREE PNEUMATIC E ASSEMBLY W/ KET & FLEXHOSES PML2105XXS)

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E1L-BHF Lead-free Behavioral Healthcare Electronic Faucet





Recommended Specifications

Lead-free Behavioral Healthcare Electronic Faucet shall be: Willoughby Model No. **E1L-BHF** (Select from options list on the following page)

The Behavioral Healthcare Faucet is designed to either retrofit existing lavatories or be specified for new design. Faucet shall be deck mounted, requiring (3) Ø1-5/16" to Ø1-1/2" faucet holes (faucet holes between 4" centerset to 8" centerset are recommended). Bubbler and push buttons shall be machined from T303 stainless steel and shall have ligature-resistant hemispherical designs.

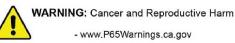
Valve constructed of stainless steel and plastic materials and complies with NSF-61 standard. The valve assembly shall use a non-hold-open metering valve assembly. The push button shall require less than 5 lbs. of force to operate. Vandal resistant stainless steel push button and keyed pump body shall be non-removable from the top of the fixture deck. The valve flow is 0.5 GPM.

The plastic valve checkstop/strainer shall feature integral mounting points. Replaceable stainless steel strainer and 0.5 GPM flow control can be serviced without disturbing the supply line. Assembly shall use flexible tubing to connect to the bubbler. Water inlet is 1/2" MPT. A galvanized wall mounting plate is provided, wall anchoring hardware provided by others.

Recommended operating pressure shall be 35-70 psi. Valve shall withstand pressures up to 90 psi. Recommended max operation tempature is 110° Fahrenheit. A 24 volt AC source shall be required for WUCC-3010 controller and valve operation.

* The E1L2 valve is not a substitute for a thermostatic mixing valve. In dual temperature valves, the delivered water temperature is the result of the two combined inlet temperatures and cannot be adjusted by this valve assembly. The hot side of the valve must be supplied with tempered water.

An In-line Thermostatic Mixing Valve (TMV) is available (select from options list on the following page).



MADE IN THE U.S.A.

1.) Valve Selection: (Choose One)

☐ E1L1-BHF Single Temperature Metering Valve
☐ E1L2-BHF Dual Temperature Metering Valve

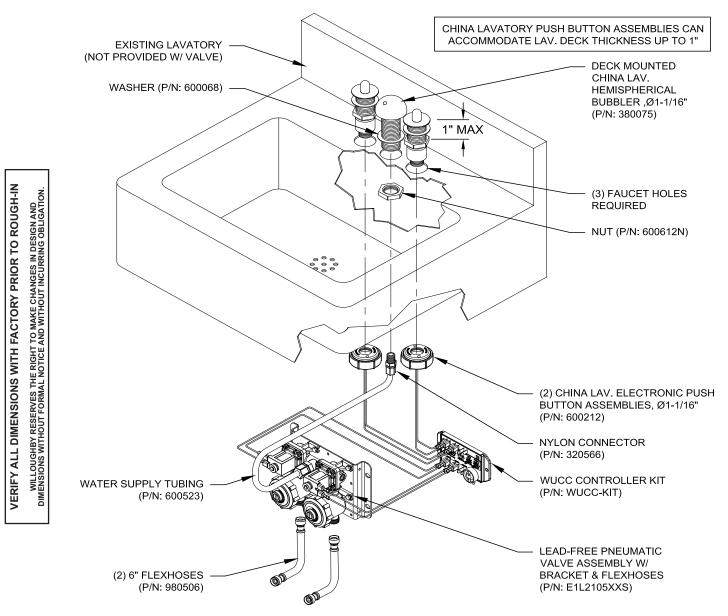
2.) Options:

☐ TMV In-line Thermostatic Mixing Valve

☐ TF24H Hard-Wire Transformer, 110VAC to 24VAC*
☐ TF24P Plug-in Transformer, 110VAC to 24VAC*

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____



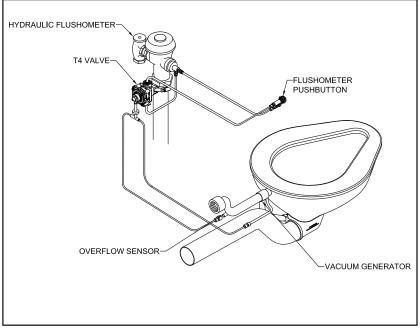
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T4 Toilet Overflow Preventer





Recommended Specifications

Toilet overflow preventer shall be: Willoughby Model No. T4

The toilet overflow preventer shall be installed on a Willoughby toilet or combination toilet/lavatory fixture to prevent overflow. The unit shall consist of a vacuum operated disabler, a vacuum generator and an overflow sensor.

The vacuum generator and overflow sensor shall be factory installed in all specially modified fixtures. The disabler valve shall be installed in the control circuit of a hydraulic flushometer. Vacuum connections between the disabler valve and the fixture shall be polyethylene tubing.

After a backup, the unit shall be manually reset by a push button on the disabler valve. The unit shall allow no overflow and require no outside power source.

Applications

The toilet overflow preventer is recommended for facilities with high vandalism (prisons, parks, schools, etc.) and is normally used in conjunction with a back supply toilet or combination unit where an accessible pipe chase is provided.

Operation

During each flush cycle, water flowing through the fixture produces a vacuum at the vacuum generator. Normally, this vacuum is drawn unrestricted through the overflow sensor.

Should the water level in the bowl rise due to intentional blocking of the drain or a clog downstream of the fixture, it will cover the opening of the sensor.

When water is drawn into the sensor, the majority of the vacuum will be redirected to the disabler valve. The disabler valve is normally open vacuum operated installed in the control circuit of a hydraulic flushometer. The vacuum closes the disabler valve thereby preventing any additional flushes until the unit is manually reset.





T4A Toilet Overflow Preventer with Auto-Reset



Recommended Specifications

Auto-reset toilet overflow preventer shall be: Willoughby Model No. **T4A**

The toilet overflow preventer shall be installed on a Willoughby toilet or combination toilet/lavatory fixture to prevent overflow.

The unit shall consist of a vacuum operated disabler, a vacuum generator, an overflow sensor and a float sensor canister. The vacuum generator and overflow sensor shall be factory installed in all specially modified fixtures. The disabler valve shall be installed in the control circuit of a hydraulic flushometer. Vacuum connections between the disabler valve and the fixture shall be polyethylene tubing.

After a backup, the unit shall automatically reset by the lowering of the water in the toilet bowl to normal level. The unit shall allow no overflow and require no outside power source.

Applications

The toilet overflow preventer is recommended for facilities with high vandalism (prisons, parks, schools, etc.), and is normally used in conjunction with a back supply toilet or combination unit where an accessible pipe chase is provided.

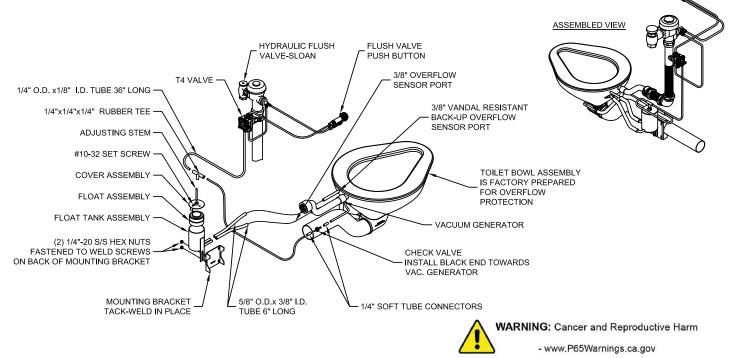
Operation

During each flush cycle, water flowing through the fixture produces a vacuum at the vacuum generator. Normally, this vacuum is drawn unrestricted through the overflow sensor.

Should the water level in the bowl rise due to intentional blockage or down stream obstruction, water covers the overflow sensor port and fills the float canister. The float rises and directs the vacuum to the disabler valve.

The disabler valve is normally open vacuum operated valve installed in the control circuit of a hydraulic flushometer. The vacuum closes the disabler valve thereby preventing any additional flushes until the water level in the toilet bowl returns to normal.

When the water level drops, the float canister drains back to the toilet bowl lowering the float. Once the float lowers to its normal position it permits air to enter the system which opens the disabler valve and allows normal flush operation.

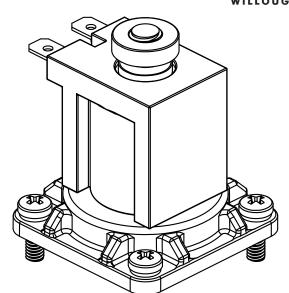


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WILLOUGHBY

EVK-4 Lead-free Electronic Valve Retrofit / Rebuild Kit





Recommended Specifications

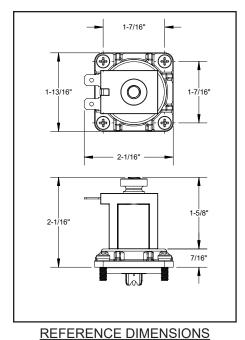
Lead-free Electronic Valve Retrofit / Rebuild Kit shall be: Willoughby Model No. **EVK-4**

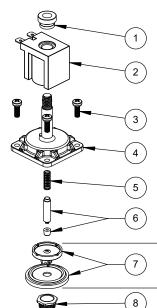
Lead-free Electronic Valve Retrofit / Rebuild Kit can be used to retrofit an existing pneumatic valve to electronic operation; it can also be used to rebuild an existing electronic valve, to restore a fixture to proper operation.

Recommended operating pressure shall be 35-70 psi. Valve shall withstand pressures up to 90 psi. Controller and 24VAC power source shall be required for a timer and valve operation. (Controller and Transformer each sold separately)

Note: Parts listed in EVK-4 are available individually; PVK-3 Parts are available in kit form only.

Valve Kit components shall comply with NSF-61 standard.





ITEM#	PART#	DESCRIPTION	QTY.
1	980534	NYLON NUT, 5/16-18	1
2	980532	COIL, 24V AC	1
3	980170A	#8-32 x 1/2 " SCREW W/SEMS SPLIT L/W	4
4	980530	ARMATURE CAP, 24V VALVE	1
5	980533	SPRING, 5/8 24v VALVE	1
6	980565	ARMATURE BUMPER ASSEMBLY, EL VALVE	1
7	980305	WATER SIDE DIAPHRAGM/ADAPTOR ASSY.	1
8	380897	VALVE SEAT, w/O-RING	1

7 PVK-3 (ITEM #: 7)

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WILLOUGHBY

VALVE MANIFOLDING

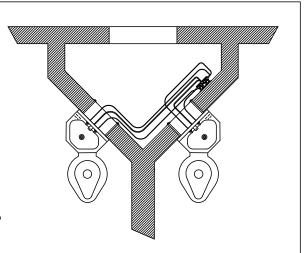
Valve Manifolding

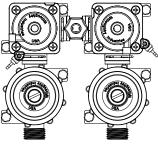
"MANIFOLDING" Willoughby's suffix "MA" allows for the operation of up to four fixtures from a common pair of Hot/Cold supply lines.

Primary Advantages

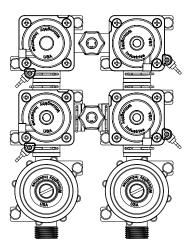
- Reduces installation costs, labor & materials
- Easy access for maintenance
- Adds flexibility to your design

To specify, add suffix "MA" to valve model number followed by 2, 3, or 4 to indicate number of fixtures to be manifolded.

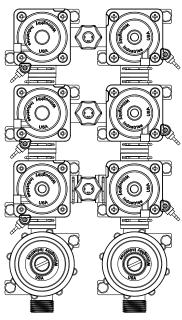




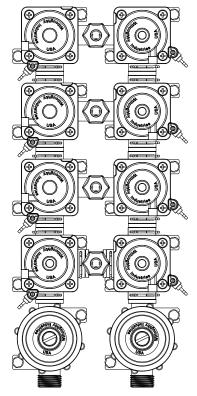
SINGLE UNIT (1 FIXTURE)



DUAL MANIFOLD -MA2 (2 FIXTURES)



TRI MANIFOLD -MA3 (3 FIXTURES)



QUAD MANIFOLD -MA4 (4 FIXTURES)

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VALVE CHARACTERISTICS

Power Source Required					
	9 N	2	S.	§.	Yes
Remote Mounting Distance Type of Inlets	1/2" FPT	1/2" FPT	1/2" FPT	1/2" FPT	1/2" EDT
Remote Mount	N/A	₹ Z	Up to	Up to 10'	10,+
Manifold Capability	o _N	S	Yes	Yes	Yes
Checkstops & Strainers	Yes	Yes	Yes	Yes	Yes
Mefering Range	2-60	A/A	5-90 Sec.	N/A	1-Sec.
Non-Hold Open Feature	o N	Υ V	Yes	N/A	Yes
Metering Control	Hyd.	A/N	Pneu.	A/N	Elec.
noileVillarion oviel	Mech.	Mech.	Pneu.	Pneu.	Elec.
noiteviton Activation	Mech.	Mech.	Pneu.	Pneu.	Pneu.
Barrier Free	°N	ş	Yes	Yes	Yes
For Shower Use	Yes	o N	Yes	o N	Yes
For Drinking Fountain Use	No	o N	o N	Yes	N _O
For Lavatory Use	Yes	Yes	Yes	Yes	Yes
Valve Series	ME	သွ	MA M	S	긥

Note: Willoughby valves do not control water temperatures and shall not be used in lieu of tempering valves. For more informaton on tempering valves, please contact the factory 1-800-428-4065.

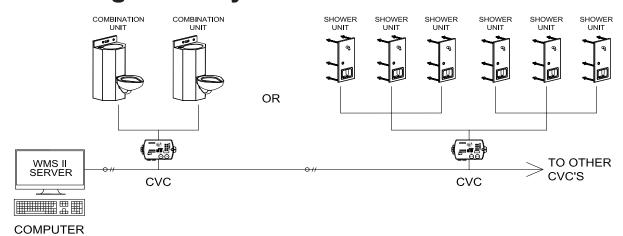
MADE IN THE U.S.A.



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WILLOUGHBY

WMS II Water Management System- Networked



Recommended Specifications

Electronic water management system shall be: Willoughby Model: **WMS II**

Water management system shall be PC based and running on a Windows 10 or newer operating system. PC shall serve as the operator interface serving multiple individual trunks of networked Cell Valve Controllers.

Individual Cell Valve Controllers (CVC's) shall be located in the plumbing chase and shall control the operation of electronic lavatory valves, electronic shower valves and electronic-hydraulic flush valves. An option shall also be provided to control the operation of a master shut-off valve that provides water to an area of several cells or fixtures.

CVC's shall require 24 volts AC for operation and shall retain all memory of settings in the event of power interruption. System manufacturer shall supply 120/24 VAC step down transformers. Each CVC shall be capable of controlling up to 2 lavatory/toilet combination units (1 hot valve, 1 cold valve and 1 flush valve for each unit), 3 individual lavatories or up to 2 toilets with overflow sensing (6 toilets without overflow sensing) or combinations there of for a total of 6 individual low voltage solenoid valves. CVC's shall be modular and capable of operating in a fully networked or stand-alone configuration.

A diagnostic light on the CVC indicates the presence of control power in the CVC. A flashing light indicates the computer in the CVC is operational. Another flashing light indicates network communication activity.

Valve output lights on the CVC shall provide the status of all valve outputs. An additional set of lights shall indicate the presence and type of any lockout condition on valve function.

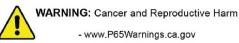
Diagnostic push buttons on the CVC shall also be provided to enable maintenance personnel to activate valves and overflow functions from the plumbing chase.

Valve activation shall come from vandal-resistant stainless steel internally sealed push buttons. Push buttons shall require less than 5 pounds of force to activate. Push button housing shall be isolated from the low voltage wiring.

All solenoid valves shall be non-hold open and all metering times shall be independently adjustable. Metering time for each valve shall be adjustable from 1 to 60 seconds for each lavatory valve, 1 to 10 seconds for each flush valve and 1 second to 9 minutes and 59 seconds for each shower valve. Metering cycles shall be interruptible with a second push of the button. All the settings can either be set for a single fixture or a mass selection of all fixtures of the same type on the PC screen.

A programmable re-initiate delay feature for fixture functions shall be provided to control their amount of use to a preset threshold after which the function will be locked out for a preset period of time of up to four hours. A parallel pre-initiate delay feature shall also be provided to insert time between switch actuation and the subsequent valve actuation.

(CONTINUED ON BACK OF PAGE)



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Configurable overuse limits shall be provided to control the amount of use of all fixture functions within a programmable time period of up to 24 hours. Overuse control shall be configurable to trigger only notification, latched lock out of the fixture function, or auto-limit of fixture function to prevent its overuse.

A fully networked system shall consist of CVC's in the plumbing chases and a PC workstation located in a control room which has a PC with a 21" or larger color monitor.

The PC workstation shall display all fixtures and indicate their operations graphically in row and column format. An option to provide a representation of the facility floor plan may also be selected.

The workstation shall be capable of controlling up to 4 networks, each consisting of a maximum 127 nodes and up to 3,000 ft. of network wiring. Twisted 3-pair cable of CAT 3 rating shall be used for all network wiring (provided by others). Stand-alone CVC's not connected to a network shall be programmed via an optional portable device or programmed at the factory.

In the event of a loss of network communications or a loss of power, system timing parameters shall be retained in each CVC to allow fixtures to operate in the same way that they operated prior to the loss of power or the loss of network communications.

Supplied valve and switch cabling from the control board shall each be 8 feet with the option to easily add extensions if necessary for unique control mounting situations.

Note: Willoughby will require an electronic CAD file (DWG or DXF) of the facility floor plan identifying the fixtures to be controlled by the WMSII system.

1.) Control System:

□ WMSII

2.) Control Station:

Desktop PC

☐ Touch Screen (LCD) (Standard)

■ Laptop PC

■ No PC (Stand-alone only)

3.) Other Options:

☐ Floor Plan Screen Layout (Standard)

On-site Start-Up, and Commissioning

(must be scheduled 30 days prior to training and after complete installation and testing of the system)

On-site Owner Training Session

(must be scheduled 30 days prior to training and after complete installation and testing of the system)

THE NETWORKED SYSTEM SHALL BE CAPABLE OF:

- Enabling or disabling an individual fixture or an entire group of fixtures from the control station.
- Controlling the maximum number of simultaneous flushes (adjustable from 1 to 999) that can occur within a given time period (adjustable from 1 to 60 seconds).



(CONTINUED FROM BELOW):

- Automatically flushing a toilet after an adjustable period of non-use has passed to prevent trap from drying out and creating stagnate water.
- · Allowing for remote actuation of fixtures from the control station
- Providing scheduled permit or lockout time periods per day for selected fixtures.
- · Providing indication and reset capability of overflow alarms.
- Logging all valve activity chronologically including overuse and overflow occurrences.
- Providing 4 levels of security: view only, operator, supervisor, and administrator (Each level includes the functions of the previous lower level.)
- Providing an elapsed-time lock for a fixture to be dynamically locked for a specific period of time (adjustable from 1 minute - 4 hours)
- Providing an automatic actuation of fixture function at preset intervals (adjustable from 1 minute - 240 hours) (It can be used to remove all control from the fixture user and tie fixture function to regular timed intervals.)

· View-only Security Level

- Move between display screens
- Observe fixture activity on screens
- Observe any loss of communications to fixture controllers
- Log into a higher security level

Operator Security Level

- Remote valve actuation
- Fixture lockout/reset
- Clear alarms (overflow and overuse)

Supervisor Security Level

- Set and adjust valve timing
- Set and adjust initiate and re-initiate delays
- Set and adjust permit (lockout) schedules
- Set and adjust overuse limits and responses
- Set alarm display options
- Turn on and set FlushGuard to limit simultaneous flushes
- Access fixture event log (if enabled by administrator)
- Use log files to analyze water-consumption history
- Enable and disable sound effects
- Access system user log file (if enabled by administrator)
- Optional selection of a 24 hour point at which all over-use counts will be reset

Administrator Security Level

- Create system user accounts with name, password, and security level defined
- Set and adjust network communication settings
- Enable and configure remote client connections to server
- Configure fixture event log files and user activity log files
- Set sound files to be used when sound feature is enabled

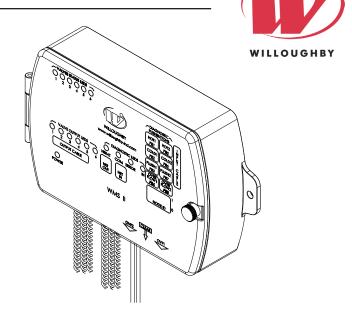


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CVC2 Willoughby WMS II Cell Valve Controller



Recommended Specifications

Electronic water management Cell Valve Controller shall be: Willoughby Model: CVC2

Willoughby WMS II Cell Valve Controllers (CVCs) shall be located in the plumbing chase and shall control the operation of selected electronic lavatory valves, electronic shower valves, and electronic toilet flush valves.

CVCs are modular, factory-wired, and capable of operating in either stand-alone or fully-networked configurations (See WMS II Spec Page for networking details). A fully-networked system of chase-mounted CVCs can be controlled using Willoughby electronic Water Management Software installed on a secure central control room PC workstation.

Each CVC shall be capable of controlling up to six (6) individual low-voltage solenoid valves. Possible configurations include:

- (2) Lavatory/toilet combination units (each combination unit having (2) lavatory valves (hot & cold) and (1) flush valve)
- (3) Individual lavatories (hot and cold)
- (2) Toilets with overflow sensing
- (6) Toilets without overflow sensing
- (6) Single temperature showers
- Any combination totaling not more than (6) individual valves

CVCs shall require 24 Volt AC for operation and shall retain all memory of settings in the event of power interruption. System manufacturer shall supply a hard-wire 120/24 VAC 40VA step down transformer (option TF24H) with each controller A plug-in transformer is also available (option TF24P). The CVC's electronic circuitry shall be encased in a water-resistant (not waterproof) enclosure; as with all electrical and electronic equipment, avoid contact with water especially once connected to the power supply.

Standard Features

Each valve activation shall be controlled by a vandal-resistant, internally-sealed, stainless steel push button. Each push button shall require less than 5 lbs. of force to activate.

All solenoid valves shall be non-hold-open and all metering times shall be independently adjustable for each valve:

- (1 to 60 sec.) for each lavatory valve
- (1 to 10 sec.) for each flush valve
- (1 sec. to 9 min. 59 sec.) for each shower valve

Metering cycles can be interrupted with a second button push.

Diagnostic push buttons on the CVC will enable maintenance personnel to activate valves and overflow functions from the chase.

CVCs shall also include separate diagnostic lights to indicate:

- Presence of control power in the CVC
- Network communication activity (in networked CVCs)
- Status of all valve outputs
- Presence and type of any lockout condition on valve function

A programmable re-initiate delay feature shall be provided to control amount of fixture use to a preset threshold. Once the fixture use threshold has been reached, function will be locked-out for a preset time period (up to 4 hours).

A parallel pre-initiate delay feature shall also be provided to insert time between switch actuation and the subsequent valve actuation.

Configurable overuse limits shall be provided to control the amount of use of all fixture functions within a programmable time period of up to 24 hours. Overuse control shall be configurable to trigger only notification, latched lock-out of the fixture function, or auto-limit of fixture function to prevent its overuse.



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	MODEL NOMBER	
1.) Contr	ol System:	5.) Shower Parameter Configuration:
□ CV	C2 Cell Valve Controller	Number of Showers: Single or Dual Temp:
		☐ (2 min.) per Button-push, (8 min.) of Water Flow per (30 min.),
,	ol Station:	with (30 min.) Lock-out
	d-alone (Standard)	☐ Custom: (min.) per Button-push,
	vorked PC (Additional Cost)	(min.) of Water Flow per (min.),
	op PC (Additional Cost)	with (min.) Lock-out
	top PC recommended for field-adjustment of CVC settings non network application)	6.) Other Options:
III a	non network application)	☐ On-site Start-Up, and Commissioning
3.) Toilet	Parameter Configuration:	(must be scheduled 30 days prior to training and after
,	Number of Toilets with Overflow Sensing:(2 max.)	complete installation and testing of the system)
	Number of Toilets w/o Overflow Sensing:(6 max.)	 On-site Owner Training Session
	ushes per (1 Hr.) with (1 Hr.) Lock-out	(must be scheduled 30 days prior to training and after
☐ Custo	om: () Flushes per (Hr.), with (Hr.) Lock-out	complete installation and testing of the system)
		☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
4.) Lavat	ory Parameter Configuration:	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
□ /15 ^	Number of Lavatories: Single or Dual Temp:	Other
☐ Custo	ec.) per Button-push, (5 min.) of Water Flow per (30 min.) om: (sec.) per Button-push,	□ Other
_ Oust	(min.) of Water Flow per (min.)	*(Reg 110V power through ground fault interrupter (GFCI) receptacle /
	with (min.) Lock-out	breaker)
		·
Approv	ed For Manufacturing By:	Date: Company:
Wall Ti	nickness: Wall Type:	
WITH FACTORY PRIOR TO ROUGH-IN RIGHT TO MAKE CHANGES IN DESIGN AND INCURRING OBLIGATION.	DIAGRAM (SECURED WITH (1) ATTACHED SCREW) (2) MOUNTING HOLES (6) VALVE STATUS LEDS SIDE VIEW WIRIN HARNE	
VERIFY ALL DIMENSIONS WITH FACTORY PF WILLOUGHBY RESERVES THE RIGHT TO MAKE CHAN DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT IN	LEFT WIRING POR'	BOTTOM VIEW

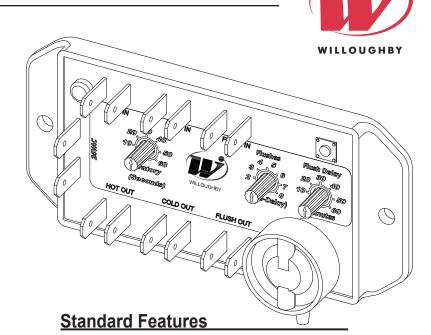
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NETWORK CABLE IN/OUT

WUCC-3010 Electronic Water Usage Combi Controller



Recommended Specifications

Electronic Water Usage Combi Controller shall be Willoughby Model: **WUCC-3010**

Combi Controller is a stand-alone electronic module designed to control the operation of electronic push button lavatory valve(s) and electronic push button toilet flush valve on a single Lavatory/ Toilet Combination fixture from the utility chase.

Each Combi Controller shall be capable of controlling up to 3 low-voltage solenoid valves on a lavatory/toilet combination fixture, including:

- (2) lavatory valves (hot & cold)
- (1) electronic flush valve

Controller manufacturer shall supply a hard-wire 120/24 VAC 40VA step down transformer (option TF24H) with each controller A plug-in transformer is also available (option TF24P). Combi Controller shall retain all functional settings after the event of power interruption. All electronic circuitry shall be encased in a water-resistant, epoxied enclosure. As with all electrical and electronic equipment, avoid contact with water, especially once connected to the power supply.

Each valve activation shall be controlled by a vandal-resistant, stainless steel push button (sold separately). Each push button shall require less than 5 lbs. of force to activate.

All solenoid valves shall be non-hold-open and all metering times shall be independently adjustable for each valve, with each function controlled by a separate control dial:

- (10 to 60 sec. run time) for each lavatory valve Lavatory valve metering cycles can be interrupted with a second button push.
- (1 to 8 flushes, within 60 minute time period, before delay)
 A preset re-initiate delay feature shall be provided to
 control amount of fixture toilet use within a 60 minute
 time period. Once a fixture flush valve has been
 activated the maximum number of flushes within a
 60 minute time period, flushing function will be locked-out
 for the Pre-delay time period between 0 to 60 minutes.

Standard parallel pre-initiate delay feature shall insert a 4 second time delay between toilet flushes. An electronic toilet overflow sensor is integrated into the Combi Controller for use with fixture toilets manufactured with overflow sensor capabilities.

All input, output, and power functions of the Combi Controller shall have corresponding LED diagnostic lights for testing and monitoring. A reset push button on the controller will enable maintenance personnel to reset functionality from the chase.



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1.) Control System:

□ WUCC-3010 Electronic Water Usage Combi Controller

(Contains Controller and all necessary cabling for installation, P/N: WUCC-KIT)

2.) Other Options:

☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)

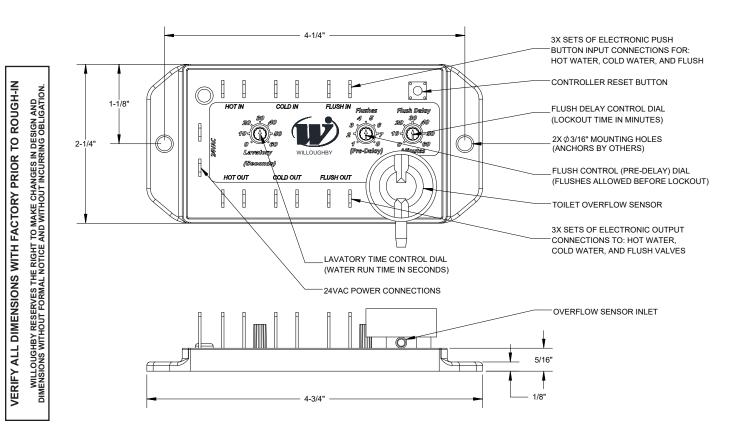
☐ TF24P Plug-in Transformer, 110VAC to 24VAC*

Other ____

□ Other

*(Req 110V power through ground fault interrupter (GFCI) receptacle / breaker)

Approved For Manufacturing By: _____ Date: ____ Company: _____ Wall Thickness: _____ Wall Type: _____

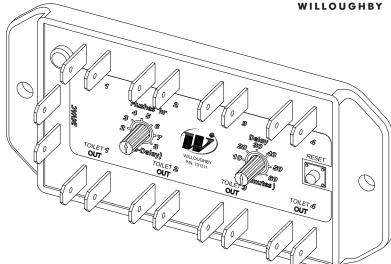


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WUFC-4000 Electronic Water Usage Flush Controller





Recommended Specifications

Electronic Water Usage Flush Controller shall be Willoughby Model: **WUFC-4000**

Flush Controller is a stand-alone electronic module designed to control the operation of an electronic push button toilet flush valve on a Toilet fixture from the utility chase.

Each Flush Controller shall be capable of controlling up to 4 low-voltage solenoid flush valves.

Controller manufacturer shall supply a hard-wire 120/24 VAC 40VA step down transformer (option TF24H) with each controller A plug-in transformer is also available (option TF24P). Flush Controller shall retain all functional settings after the event of power interruption. All electronic circuitry shall be encased in a water-resistant, epoxied enclosure. As with all electrical and electronic equipment, avoid contact with water, especially once connected to the power supply.

Each valve activation shall be controlled by a vandal-resistant, stainless steel push button (sold separately). Each push button shall require less than 5 lbs. of force to activate.

Standard Features

All solenoid valves shall be non-hold-open and all metering times shall be adjustable using the Flushes (Pre-delay) and Flush Delay control dials:

- (1 to 8 flushes, within 60 minute time period, before delay)
 A preset re-initiate delay feature shall be provided to
 control amount of fixture toilet use within a 60 minute
 time period. Once a fixture flush valve has been
 activated the maximum number of flushes within a
 60 minute time period, flushing function will be locked-out
 for the Pre-delay time period between 0 to 60 minutes.
- (4 sec. to 60 min. flush delay) Standard parallel pre-initiate delay feature shall insert a 4 second time delay between toilet flushes, with a maximum time delay of 60 minutes.

All input, output, and power functions of the Flush Controller shall have corresponding LED diagnostic lights for testing and monitoring. A reset push button on the controller will enable maintenance personnel to reset functionality from the chase.



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1.) Control System:

□ WUFC-4000 Electronic Water Usage Flush Controller

(Contains Controller and all necessary cabling for installation, P/N: WUFC-KIT)

2.) Other Options:

☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)

☐ TF24P Plug-in Transformer, 110VAC to 24VAC*

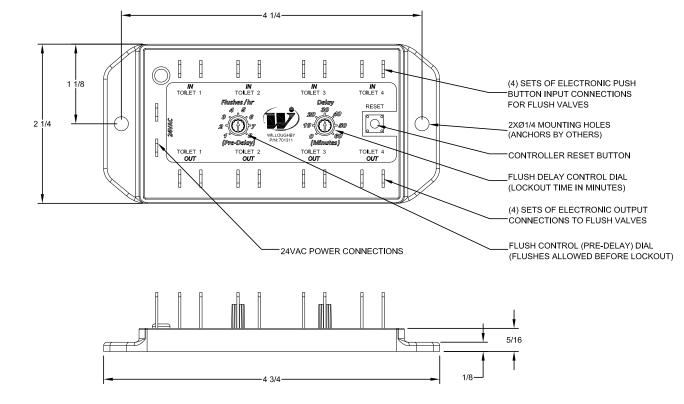
□ Other ____

□ Other

*(Req 110V power through ground fault interrupter (GFCI) receptacle / breaker)

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____

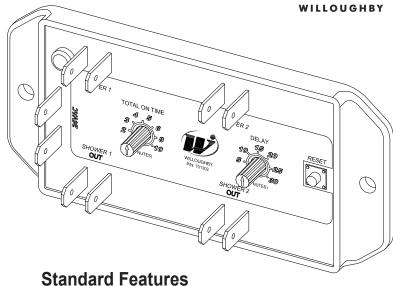






W)

WUSC-2200 Electronic Water Usage 2-Shower Controller



Recommended Specifications

Electronic Water Usage 2-Shower Controller shall be: Willoughby Model: **WUSC-2200**

Shower Controller is a stand-alone electronic module designed to control the operation of an electronic push button shower valve on a shower fixture from the utility chase.

Each 2-Shower Controller shall be capable of controlling up to 2 low-voltage solenoid shower valves.

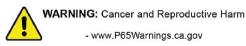
Controller manufacturer shall supply a hard-wire 120/24 VAC 40VA step down transformer (option TF24H) with each controller A plug-in transformer is also available (option TF24P). Shower Controller shall retain all functional settings after the event of power interruption. All electronic circuitry shall be encased in a water-resistant, epoxied enclosure. As with all electrical and electronic equipment, avoid contact with water, especially once connected to the power supply.

Each valve activation shall be controlled by a vandal-resistant, stainless steel push button (sold separately). Each push button shall require less than 5 lbs. of force to activate.

All solenoid valves shall be non-hold-open and all metering times shall be adjustable using the Total On Time and Delay control dials:

- (1 to 10 minutes Total On Time) Total On Time dial shall control the total time the electronic shower valves can run before activating the preset re-initiate delay feature. This shall limit the amount of fixture use to a preset threshold.
- (0 to 30 minute Delay) Delay dial shall control the lock-out time period. Once the fixture use Total On Time threshold has been reached, shower function will be locked-out for a time period between 0 to 30 minutes.

All input, output, and power functions of the Shower Controller shall have corresponding LED diagnostic lights for testing and monitoring. A reset push button on the controller will enable maintenance personnel to reset functionality from the chase.





1.) Control System:

■ WUSC-2200 Electronic Water Usage 2-Shower Controller

(Contains Controller and all necessary cabling for installation, P/N: WUSC-2200-KIT)

2.) Other Options:

☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)

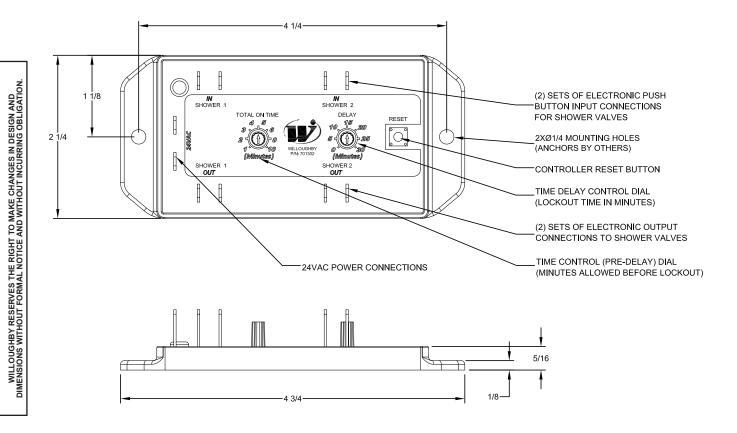
☐ TF24P Plug-in Transformer, 110VAC to 24VAC*

□ Other ____

□ Other

*(Req 110V power through ground fault interrupter (GFCI) receptacle / breaker)

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____



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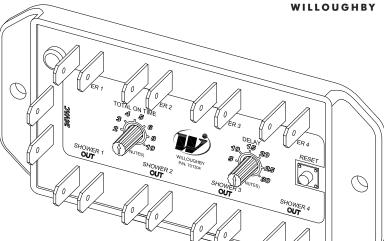
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WUSC-2400 Electronic Water Usage 4-Shower Controller





Recommended Specifications

Electronic Water Usage 4-Shower Controller shall be: Willoughby Model: **WUSC-2400**

Shower Controller is a stand-alone electronic module designed to control the operation of an electronic push button shower valve on a shower fixture from the utility chase.

Each 4-Shower Controller shall be capable of controlling up to 4 low-voltage solenoid shower valves.

Controller manufacturer shall supply a hard-wire 120/24 VAC 40VA step down transformer (option TF24H) with each controller A plug-in transformer is also available (option TF24P). Shower Controller shall retain all functional settings after the event of power interruption. All electronic circuitry shall be encased in a water-resistant, epoxied enclosure. As with all electrical and electronic equipment, avoid contact with water, especially once connected to the power supply.

Standard Features

Each valve activation shall be controlled by a vandal-resistant, stainless steel push button (sold separately). Each push button shall require less than 5 lbs. of force to activate.

All solenoid valves shall be non-hold-open and all metering times shall be adjustable using the Total On Time and Delay control dials:

- (1 to 10 minutes Total On Time) Total On Time dial shall control the total time the electronic shower valves can run before activating the preset re-initiate delay feature. This shall limit the amount of fixture use to a preset threshold.
- (0 to 30 minute Delay) Delay dial shall control the lock-out time period. Once the fixture use Total On Time threshold has been reached, shower function will be locked-out for a time period between 0 to 30 minutes.

All input, output, and power functions of the Shower Controller shall have corresponding LED diagnostic lights for testing and monitoring. A reset push button on the controller will enable maintenance personnel to reset functionality from the chase.



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1.) Control System:

■ WUSC-2400 Electronic Water Usage 4-Shower Controller

(Contains Controller and all necessary cabling for installation, P/N: WUSC-KIT)

2.) Other Options:

☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)

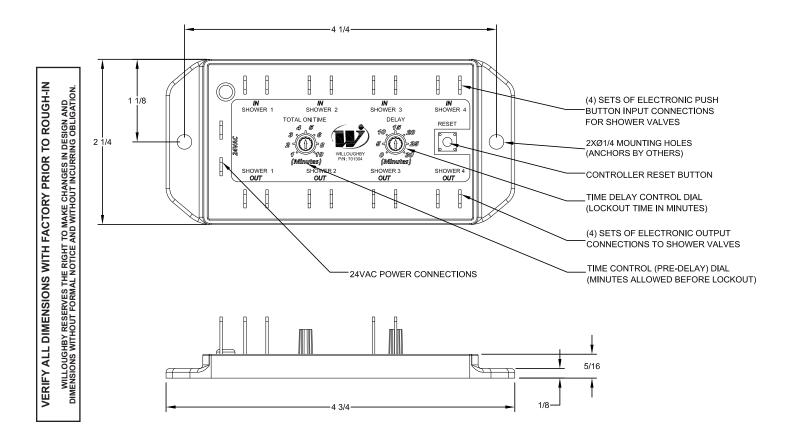
☐ TF24P Plug-in Transformer, 110VAC to 24VAC*

Other____

□ Other

*(Req 110V power through ground fault interrupter (GFCI) receptacle / breaker)

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____







Pneutronic All-Purpose Valve Controller

Recommended Specifications

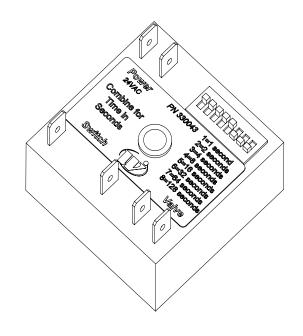
Electronic metering control shall be: Willoughby Model: **Pneutronic All-Purpose Valve Controller**

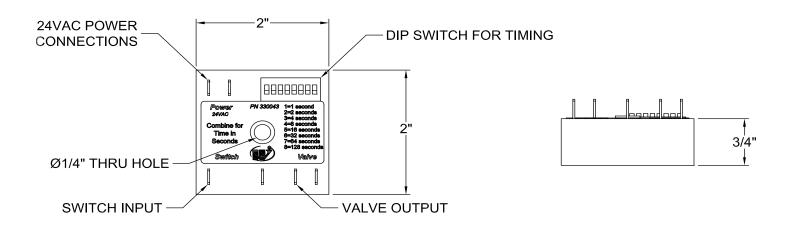
Valve controller shall use low voltage 24 VAC power and provide non-hold open valve operation. Each pneutronic module shall provide control of one solenoid valve. Valve activation shall come from a vandal-resistant stainless steel waterproof electronic push button. Push button shall require less than 5 lbs. of force to activate.

Metering time shall be easily adjustable from 1 second to over 4 minutes in 1-second increments via a DIP switch on the controller. The metering cycle shall be interruptible by a second press of the push button.

Valve controller troubleshooting lights shall be provided to indicate the presence of 24 VAC power, input switch status and output status. A 24 VAC self-closing solenoid valve is provided. Internal parts of the solenoid valve that are in contact with water shall be non-corrosive.

24 VAC power transformers are available as an option.







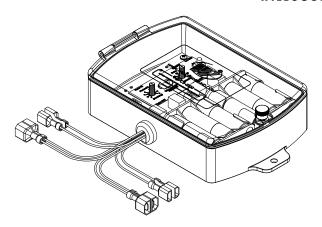
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WILLOUGHBY

WUFCB-5200 Battery Operated Water Usage Flush Controller



Recommended Specifications

Battery Operated Water Usage Flush Controller shall be Willoughby Model: **WUFCB-5200**

Flush Controller is a stand-alone water resistant electronic module designed to control the operation of an electronic push button toilet flush valve on a toilet fixture from the utility chase.

Each Flush Controller shall be capable of controlling up to 2 low-voltage solenoid flush valves.

The Battery Operated Electronic Valve Controller assembly uses 9V DC battery power (12) AA batteries (supplied by manufacturer) to operate a latching valve coil solenoid controlled by an electronic push button. Mounting of controller is to be by others. Electronic Valve Controller is housed in a water resistant enclosure.

Standard Features

Each valve activation shall be controlled by a vandal-resistant, stainless steel push button (sold separately). Each push button shall require less than 5 lbs. of force to activate. The vandal-resistant electronic push button shall be non-removable from the front of the fixture.

- (1 to 8 flushes, within 60 minute time period, before delay)
 A preset re-initiate delay feature shall be provided to control amount of fixture toilet use within a 60 minute time period. Once a fixture flush valve has been activated the maximum number of flushes within a 60 minute time period, flushing function will be locked-out for the Pre-delay time period between 0 to 60 minutes.
- (0 sec. to 60 min. flush delay) Standard parallel pre-initiate delay feature shall insert a minimum time delay of 0 seconds between toilet flushes, with a maximum time delay of 60 minutes.

All inputs, and outputs, shall have corresponding LED diagnostic lights for testing and monitoring. A reset push button on the controller will enable maintenance personnel to reset functionality from the chase. Hinged door allows for easy maintenance access.



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1.) Control System:

☐ WUFCB-5200

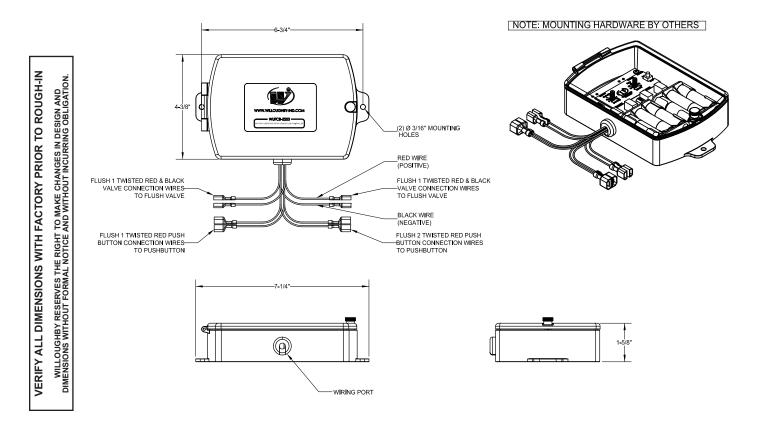
Battery Operated Water Usage Flush Controller (Contains Controller and all necessary cabling for installation, P/N: WUFCB-KIT)

2.) Other Options:

Other

□ Other

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____

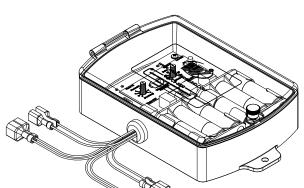


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WUSCB-5300 Battery Operated Water Usage Shower Controller



Recommended Specifications

Standard Features

Battery Operated Water Usage Shower Controller shall be Willoughby Model: **WUSCB-5300**

Shower Controller is a stand-alone water resistant electronic module designed to control the operation of an electronic push button shower valve on a shower fixture from the utility chase.

Each Shower Controller shall be capable of controlling up to 2 low-voltage solenoid shower valves.

The Battery Operated Electronic Valve Controller assembly uses 9V DC battery power (12) AA batteries (supplied by manufacturer) to operate a latching valve coil solenoid controlled by an electronic push button. Mounting of controller is to be by others. Electronic Valve Controller is housed in a water resistant enclosure.

Each valve activation shall be controlled by a vandal-resistant, stainless steel push button (sold separately). Each push button shall require less than 5 lbs. of force to activate. The vandal-resistant electronic push button shall be non-removable from the front of the fixture.

- (1 to 10 minutes Total On Time) Total On Time dial shall control the total time the electronic shower valves can run before activating the preset re-initiate delay feature. This shall limit the amount of fixture use to a preset threshold.
- (0 to 30 minute Delay) Delay dial shall control the lock-out time period. Once the fixture use Total On Time threshold has been reached, shower function will be locked-out for a time period between 0 to 30 minutes.

All inputs, and outputs, shall have corresponding LED diagnostic lights for testing and monitoring. A reset push button on the controller will enable maintenance personnel to reset functionality from the chase. Hinged door allows for easy maintenance access.





1.) Control System:

□ WUSCB-5300

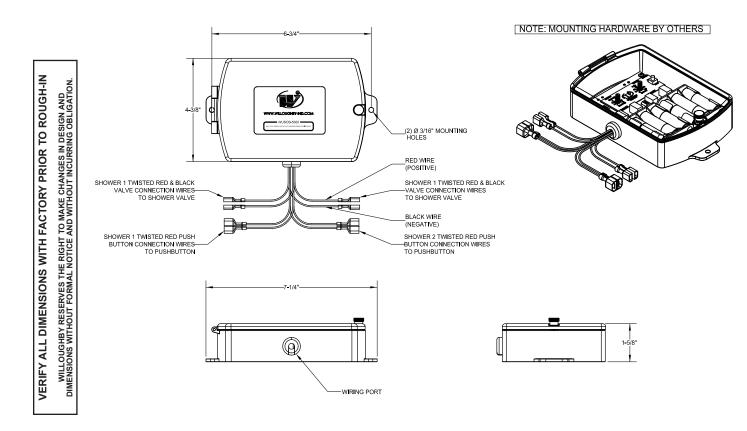
Battery Operated Water Usage Shower Controller (Contains Controller and all necessary cabling for installation, P/N: WUSCB-KIT)

2.) Other Options:

□ Other

_	· · · · · · · · · · · · · · · · · · ·	
	Other	

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____



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WULCB-5400 Battery Operated Water Usage Lavatory Controller



Recommended Specifications

Standard Features

Battery Operated Water Usage Lavatory Controller shall be Willoughby Model: **WULCB-5400**

Lavatory Controller is a stand-alone water resistant electronic module designed to control the operation of an electronic push button Lavatory valve on a Lavatory fixture from the utility chase.

Each Lavatory Controller shall be capable of controlling up to 2 low-voltage solenoid Lavatory valves (2 single temp. valves or 1 dual temp. valve).

The Battery Operated Electronic Valve Controller assembly uses 9V DC battery power (12) AA batteries (supplied by manufacturer) to operate a latching valve coil solenoid controlled by an electronic push button. Mounting of controller is to be by others. Electronic Valve Controller is housed in a water resistant enclosure.

Each valve activation shall be controlled by a vandal-resistant, stainless steel push button (sold separately). Each push button shall require less than 5 lbs. of force to activate. The vandal-resistant electronic push button shall be non-removable from the front of the fixture.

- (0 to 60 seconds Total On Time) Total On Time dial shall control the total time the electronic Lavatory valves can run before activating the preset re-initiate delay feature. This shall limit the amount of fixture use to a preset threshold.
- (0 to 30 minute Delay) Delay dial shall control the lock-out time period. Once the fixture use Total On TIme threshold has been reached, Lavatory function will be locked-out for a time period between 0 to 30 minutes.

All inputs, and outputs, shall have corresponding LED diagnostic lights for testing and monitoring. A reset push button on the controller will enable maintenance personnel to reset functionality from the chase. Hinged door allows for easy maintenance access.



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MODEL NUMBER AND OPTIONS:

1.) Control System:

■ WULCB-5400

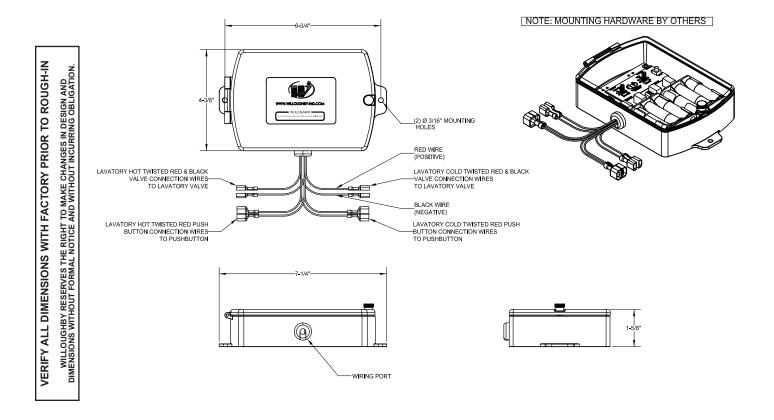
Battery Operated Water Usage Lavatory Controller (Contains Controller and all necessary cabling for installation, P/N: WULCB-KIT)

2.) Other Options:

Other

□ Other

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____





RTH1 Rear Mounted Tissue Holder

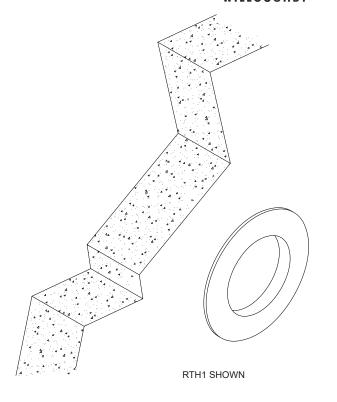
RTH1 recessed toilet tissue holder shall be die-formed of 14 GA, Type 304 stainless steel with an 18 GA, Type 304 #3 satin finish exposed flange. Flange edge to be turned back providing a tight fit to wall. Holder shall accommodate a standard roll of tissue, measuring 4-3/4" in diameter and 4-3/4" deep, providing no free area for the concealment of contraband.

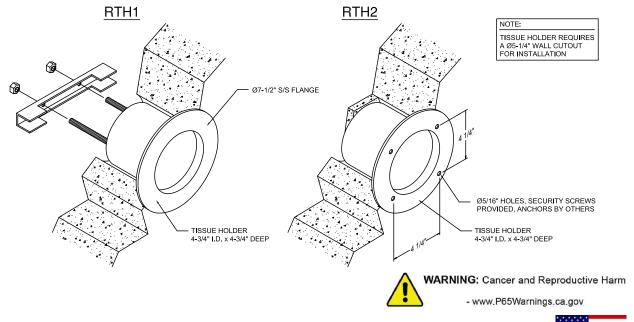
Mounting hardware supplied with the tissue holder.

RTH2 Front Mounted Tissue Holder

RTH2 recessed toilet tissue holder shall be die-formed of 14 GA, Type 304 stainless steel with an 18 GA, Type 304 #3 satin finish exposed flange. Flange edge to be turned back providing a tight fit to wall. Holder shall accommodate a standard roll of tissue, measuring 4-3/4" in diameter and 4-3/4" deep, providing no free area for the concealment of contraband. Mounting shall be from the front.

Stainless steel security screws provided, wall anchors by others.





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W)

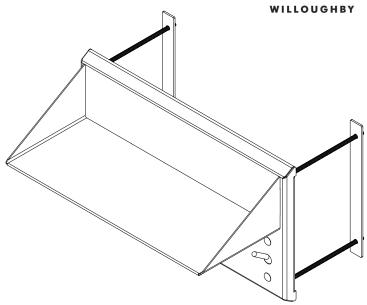
LRTH4S Ligature-Resistant Release Towel Hook w/ Integral Shelf Rear Mounted

1	MODEL NUMBER	NUMBER OF HOOKS
	LRTH4S	4

LRTH4S release towel hook assembly with integral shelf shall be fabricated from Type 304 stainless steel. Exposed stainless steel surfaces shall have a glass-blast finish.

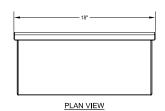
Pressure activated release towel hook(s) will support light clothing and towel loads, however, excessive hook loads will cause downward hook release.

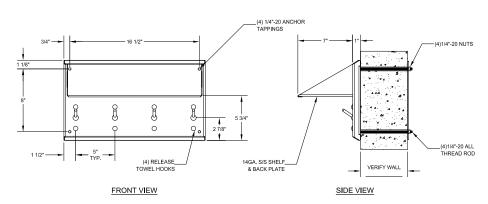
LRTH4S hook assembly supplied with all thread rod, nuts and washers.

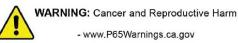


LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.







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LRTH4S-FA Ligature-Resistant Release Towel Hook w/ Integral Shelf Front Mounted

1	MODEL NUMBER	NUMBER OF HOOKS
	LRTH4S-FA	4

LRTH4S-FA release towel hook assembly with integral shelf shall be fabricated from Type 304 stainless steel. Exposed stainless steel surfaces shall have a glass-blast finish.

Pressure activated release towel hook(s) will support light clothing and towel loads, however, excessive hook loads will cause downward hook release.

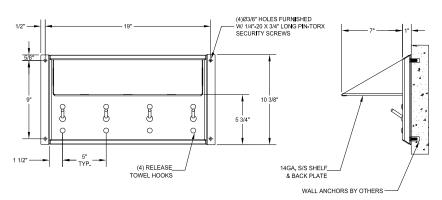
LRTH4S-FA hook assembly supplied with vandal-resistant stainless steel security screws. Wall anchors by others.

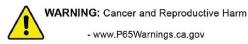


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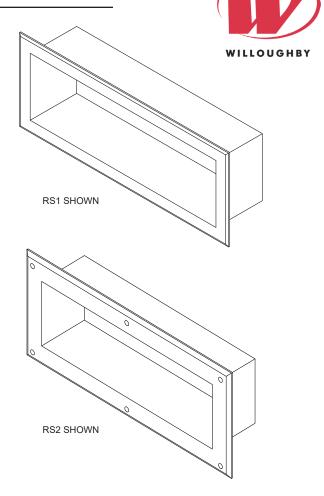
RS Series Recessed Shelf

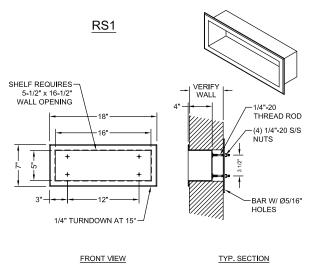
1	MODEL NUMBER	MOUNTING CONFIGURATION
	RS1	REAR MOUNTED
	RS2	FRONT MOUNTED

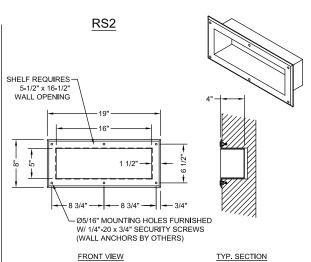
RS ____ recessed shelf shall be fabricated entirely of 16 GA, Type 304 stainless steel. Exposed flange surfaces are polished to a #3 satin finish. Shelf is available in both rear mounting (RM) or flange mounting (FM) configuration.

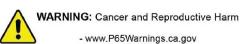
Shelf assembly (RS1) supplied with anchoring hardware.

Shelf assembly (RS2) supplied with vandal-resistant security screws, wall anchors by others.









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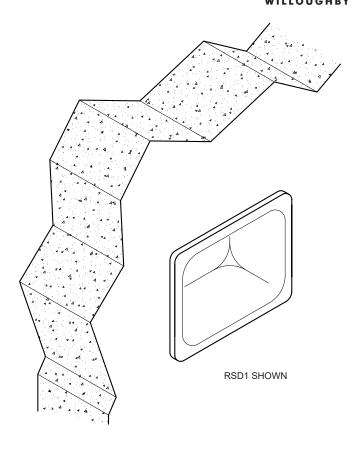
RSD1 Rear Mounted Recessed Soap Dish

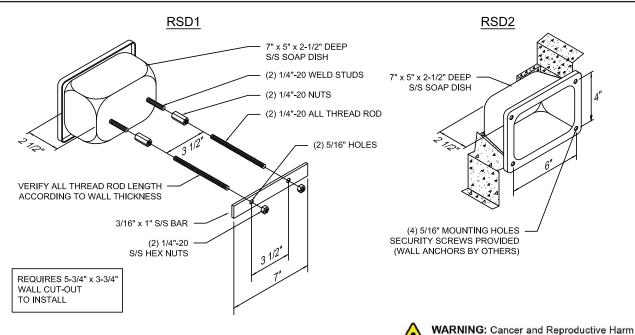
RSD1 recessed soap dish shall be 16 GA, Type 304 stainless steel. Unit is one piece construction, tamper-resistant with all exposed surfaces polished to a #3 satin finish. Wide radius corners assure cleanliness.

RSD2 Front Mounted Recessed Soap Dish

RSD2 recessed soap dish shall be 16 GA, Type 304 stainless steel. Unit is one piece construction, tamper-resistant with all exposed surfaces polished to a #3 satin finish. Wide radius corners assure cleanliness. Mounting shall be from the front.

Stainless steel security screws provided, wall anchors by others.







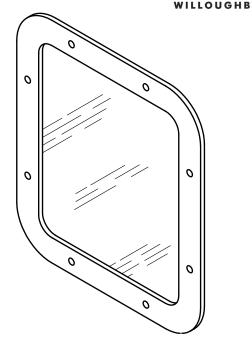
www.P65Warnings.ca.gov

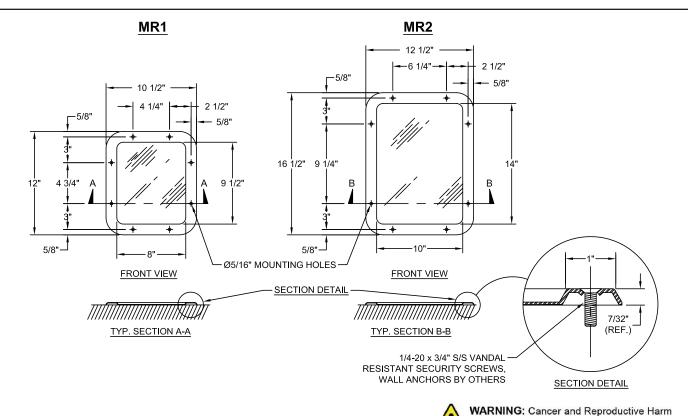
MR Series Front Mounted Security Mirror

/	MODEL NUMBER	HEIGHT	WIDTH
	MR1	12"	10 1/2"
	MR2	16 1/2"	12 1/2"
	EM1 (OPTIONAL)	MOUNTING FR	AME FOR MR1
	EM2 (OPTIONAL)	MOUNTING FR	AME FOR MR2

MR ___ mirror with integral frame shall be die formed 16 GA, Type 304 series stainless steel, polished to a #8 non-directional mirror finish. Anchoring shall be by standard 8-point mounting. Vandal-resistant security screws provided with the mirror. Wall anchors provided by others.

Optional in-wall embedded mounting plate is available. For optional embedded mounting plate, specify EM1 or EM2 to correspond with above mirror size.





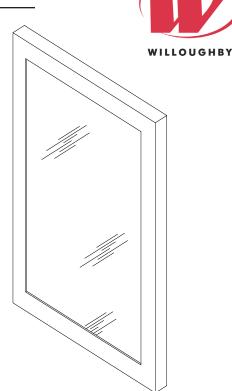
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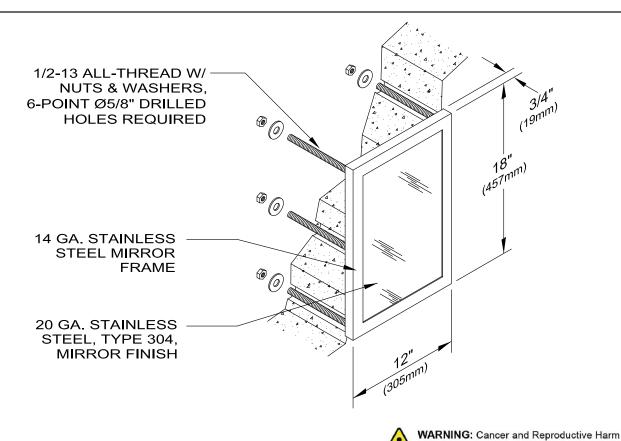


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FMR1 Framed Security Mirror Rear Mounted



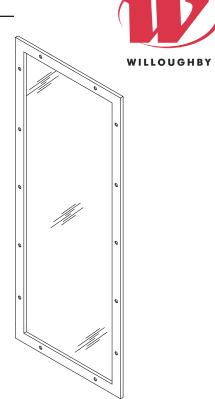
FMR1 framed security mirror to be 16 GA, Type 304 stainless steel, polished to a #8 non-directional mirror finish. Mirror shall be reinforced with 1/2" fiberboard backing. Anchoring shall be by a 6-point system: threaded rods, nuts and washers furnished for walls up to 8" thick. Unit requires chase for installation.



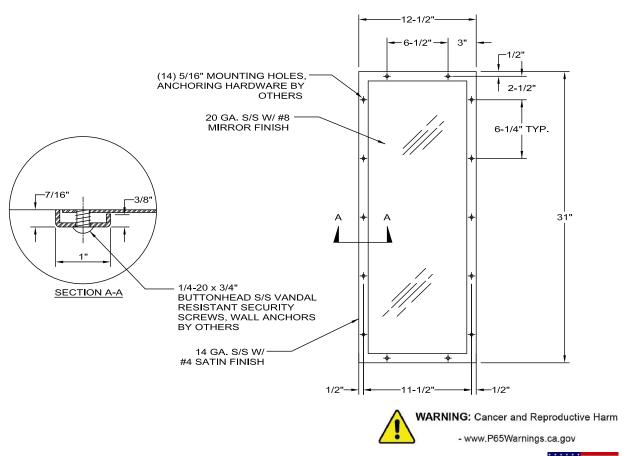


- www.P65Warnings.ca.gov

FMR1-FA Framed Security Mirror Front Mounted



FMR1-FA framed security mirror to be 14 GA / 20GA, Type 304 stainless steel, polished to a #8 non-directional mirror finish. Anchoring shall be by a 14-point system. Vandal-resistant 1/4-20 x 3/4" security screws provided with the mirror. Wall anchors provided by others.



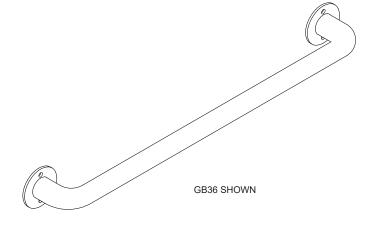




GB Series Grab Bars

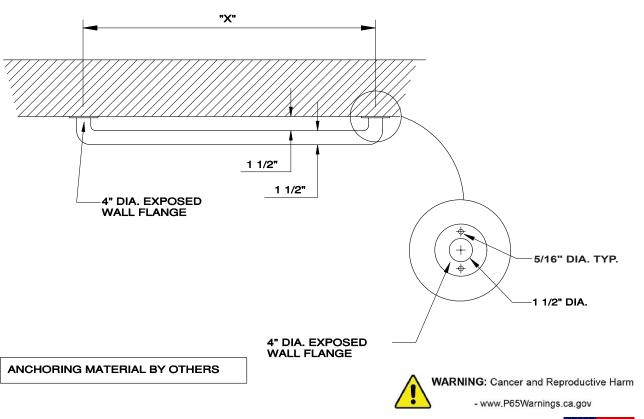


/	MODEL NUMBER	GRAB BAR LENGTH ("X")
	GB18	18"
	GB24	24"
	GB30	30"
	GB36	36"
	GB42	42"
	GB48	48"
	GB3318	33" X 18"



GB ____ grab bars shall be fabricated from Type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #3 satin finish. Standard flange configuration is exposed. Grab bar fasteners and wall anchors by others.

Various configurations are available.



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ASGB Series Ligature-resistant Grab Bars

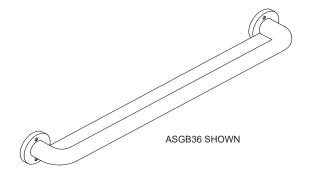
1	MODEL NUMBER	GRAB BAR LENGTH ("X")
	ASGB18	18"
	ASGB18V	18" (Vertical grab bar w/ no weep holes.)
	ASGB24	24"
	ASGB24V	24" (Vertical grab bar w/ no weep holes.)
	ASGB30	30"
	ASGB36	36"
	ASGB42	42"
	ASGB48	48"
	ASGB3318	33" X 18"

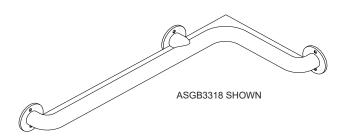
ASGB Ligature-resistant grab bars shall be fabricated from Type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #3 satin finish. Grab bar shall have 11 gauge stainless steel plate welded to bottom to give fixture a ligature-resistant design. Standard flange configuration is exposed. Grab bar fasteners and wall anchors by others.

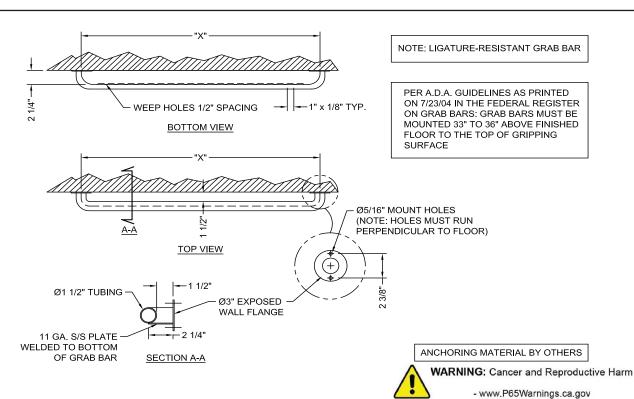
Various configurations are available.

LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.





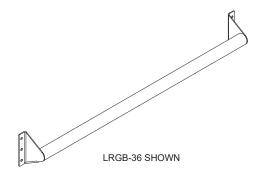






LRGB Series Ligature-resistant **ADA Compliant Grab Bars**

/	MODEL NUMBER	GRAB BAR LENGTH ("X")
	LRGB-18-ADA	18"
	LRGB-24-ADA	24"
	LRGB-36-ADA	36"
	LRGB-42-ADA	42"
	LRGB-48-ADA	48"

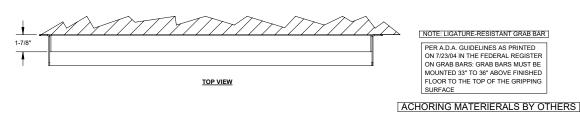


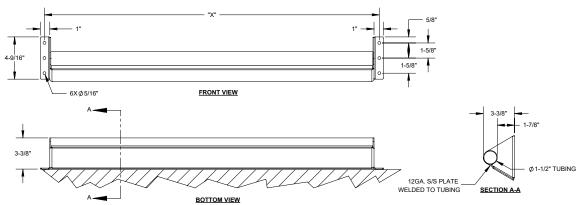
Ligature-resistant grab bars shall be fabricated from Type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #3 satin finish. Grab bar shall have11 gauge stainless steel plate welded to bottom to give fixture a ligature-resistant design. Grab bar fasteners and wall anchors by others.

Various configurations are available.

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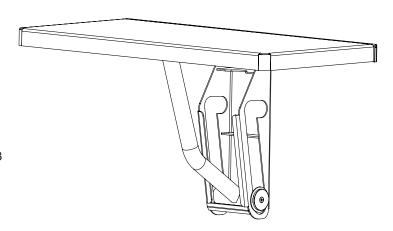
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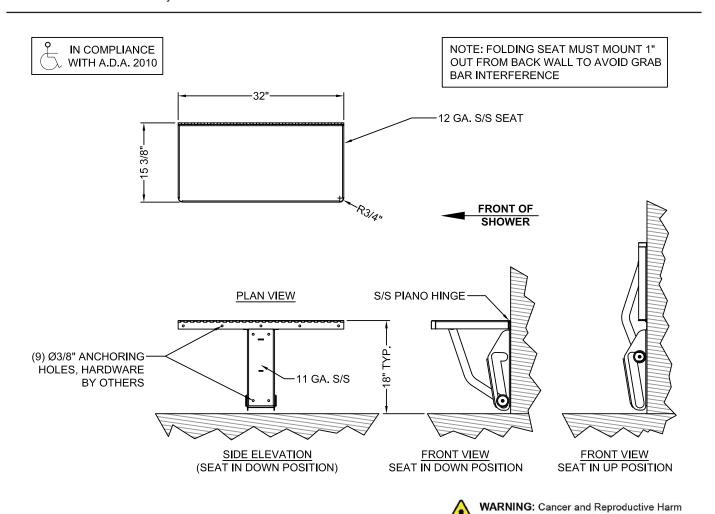
FSS Series Folding Shower Seat

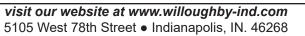


FSS folding shower seat shall be fabricated from Type 304 stainless steel. Seating surface and flanges polished to a #3 satin finish. Folding shower seat provides sturdy seating for users of handicapped shower facilities and can be easily folded up when not in use.

Wall anchors and fasteners by others.







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LRTH Series Ligature-resistant Release Towel Hook

1	MODEL NUMBER	NUMBER OF HOOKS
	LRTH1	1
	LRTH4	4

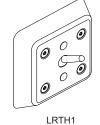
LRTH_____ ligature-resistant release towel hook assembly shall be fabricated from Type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish. Pressure activated release towel hook(s) will support light clothing and towel loads. However, excessive hook loads will cause downward hook release.

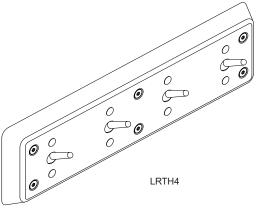
Towel hook assembly shall have ligature-resistant sloped sides in addition to the pressure activated release towel hook(s).

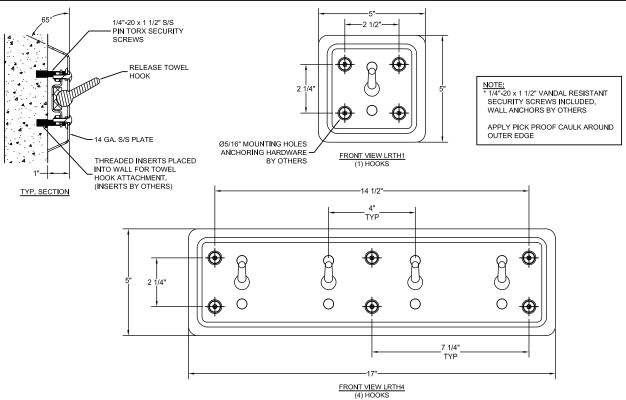
Wall anchors by others.

LIGATURE-RESISTANT DISCLAIMER

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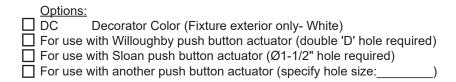
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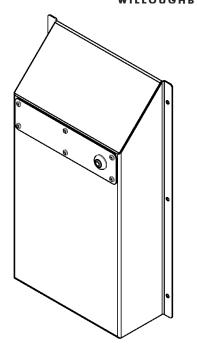


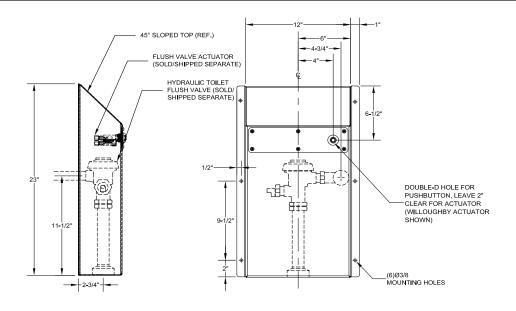
ASFVC Ligature-resistant Flush Valve Cover

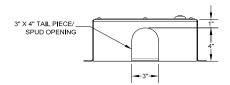
Stainless steel ligature-resistant flush valve cover shall be: Willoughby Option No. ASFVC

Flush valve cover shall be fabricated from 14 GA, Type 304 stainless steel with exposed stainless steel surfaces polished to a #4 satin finish. Flush valve cover is supplied with Ø5/16" mounting holes, anchoring hardware is provided by others. Flush valve cover shall have a ligature-resistant sloped top, radiused vertical corners and a single access cover with a single push button hole for right or left hand toilet.









LIGATURE-RESISTANT DISCLAIMER

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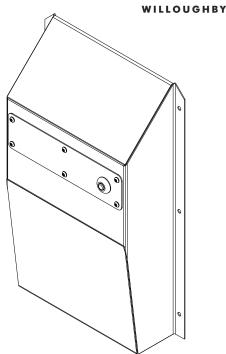
ASUFVC Ligature-resistant Urinal Flush Valve Cover

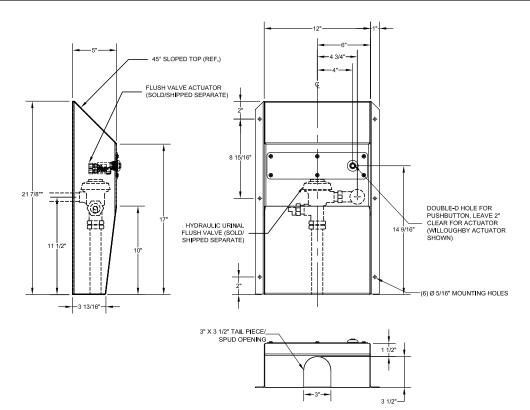
Stainless steel ligature-resistant urinal flush valve cover shall be: Willoughby Option No. **ASUFVC**

Urinal flush valve cover shall be fabricated from 14 GA, Type 304 stainless steel with exposed stainless steel surfaces polished to a #4 satin finish. Flush valve cover is supplied with Ø5/16" mounting holes, anchoring hardware is provided by others. Flush valve cover shall have ligature-resistant sloped top and bottom and a single access cover with a single push button hole for right or left hand valve.

Options:

- DC Decorator Color (Fixture exterior only- White)
- For use with Willoughby push button actuator (double 'D' hole required)
- For use with Sloan push button actuator (Ø1-1/2" hole required)
- For use with another push button actuator (specify hole size:____





LIGATURE-RESISTANT DISCLAIMER

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ASFVC-ADA Ligature-resistant ADA Compliant Flush Valve Cover

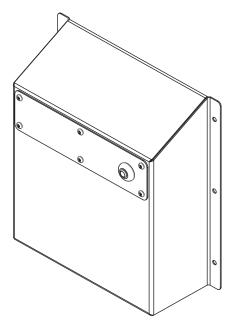
Stainless steel ligature-resistant ADA compliant flush valve cover shall be: Willoughby Option No. **ASFVC-ADA**

Flush valve cover shall be fabricated from 14 GA, Type 304 stainless steel with exposed stainless steel surfaces polished to a #4 satin finish. Flush valve cover is supplied with Ø5/16" mounting holes, anchoring hardware is provided by others. Flush valve cover shall have a ligature-resistant sloped top, radiused vertical corners, single access cover with a single push button hole for right or left hand toilet.

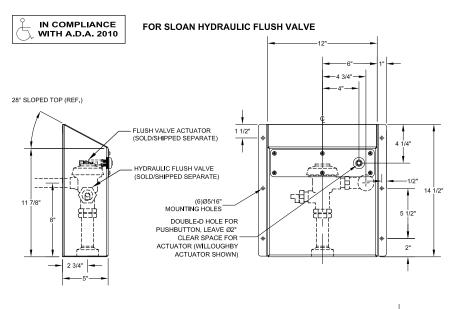
Options:

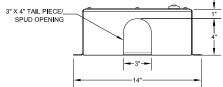
- □ DC Decorator Color (Fixture exterior only- White)
- ☐ For use with Willoughby push button actuator (double 'D' hole required)
- ☐ For use with Sloan push button actuator (Ø1-1/2" hole required)
- ☐ For use with another push button actuator (specify hole size:





SHOWN WITH WILLOUGHBY 600317PM PUSH BUTTON





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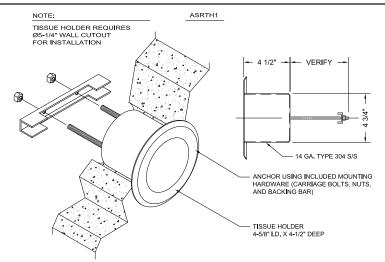
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ASRTH Series Ligature-Resistant Tissue Holder

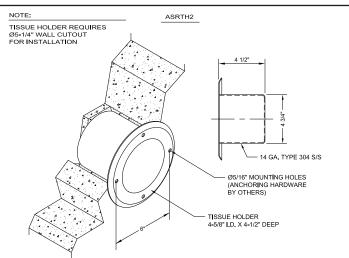
ASRTH1 Rear Mounted LigatureResistant Tissue Holder

ASRTH1 recessed toilet tissue holder shall be die-formed of 14 GA, Type 304 stainless steel with an 16 GA, Type 304 #3 satin finish exposed flange. Flange edge to be turned back providing a tight fit to wall. Holder shall accommodate a standard roll of tissue, measuring 4-5/8" in diameter and 4-1/2" deep. Interior shall be seamless and ligature-resistant, providing no free area for the concealment of contraband and no interior exposed flange edge. Mounting shall be from the rear using S/S mounting hardware provided (verify wall thickness).



ASRTH2 Front Mounted LigatureResistant Tissue Holder

ASRTH2 recessed toilet tissue holder shall be die-formed of 14 GA, Type 304 stainless steel with an 16 GA, Type 304 #3 satin finish exposed flange. Flange edge to be turned back providing a tight fit to wall. Holder shall accommodate a standard roll of tissue, measuring 4-5/8" in diameter and 4-1/2" deep. Interior shall be seamless and ligature-resistant, providing no free area for the concealment of contraband and no interior exposed flange edge. Mounting shall be from the front. Stainless steel security screws provided, wall anchors by others.



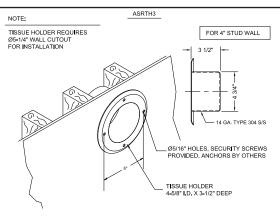
ASRTH3 Front Mounted Ligature-Resistant Tissue Holder (For 4" Stud Wall)

ASRTH3 recessed toilet tissue holder shall be die-formed of 14 GA, Type 304 stainless steel with a 16 GA, Type 304 #3 satin finish exposed flange. Flange edge to be turned back providing a tight fit to wall. Holder shall accommodate a standard roll of tissue, measuring 4-3/4" in diameter and 3-1/2" deep. Interior shall be seamless and ligature-resistant, providing no free area for the concealment of contraband and no 15 teinless et al. accurity appears.

concealment of contraband and no interior exposed flange edge Mounting shall be from the front. Stainless steel security screws provided, wall anchors by others.

LIGATURE-RESISTANT DISCLAIMER

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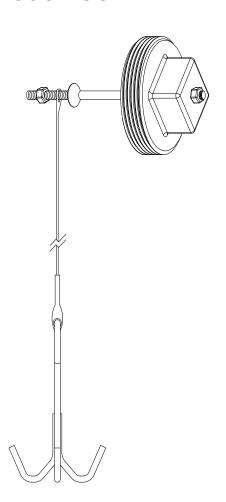
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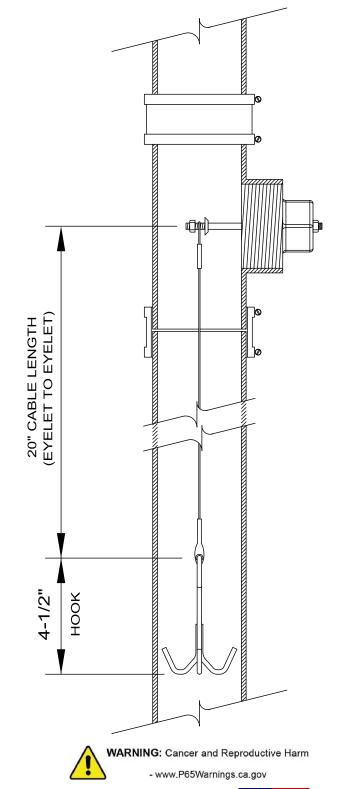
COH Series Clean-out Hook



1	PLUG TYPE	MODEL NUMBER
	4" PVC	COH4
	4" BRASS	COHB4

Clean-out hook shall be: Willoughby Model No. **COH**

This option requires the use of a vertically mounted clean-out tee (SOLD SEPARATELY). The PVC or brass plug has a permanent stainless steel pin with stainless steel cable and stainless steel 3-pronged hook which extends downward to catch large objects passing through the waste piping. Clean-out hook requiers accessible chase to service.



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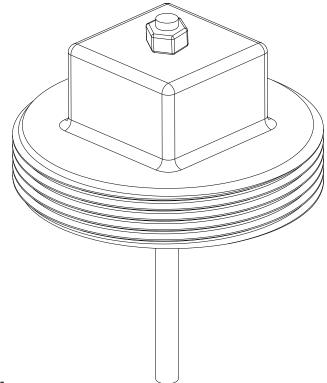
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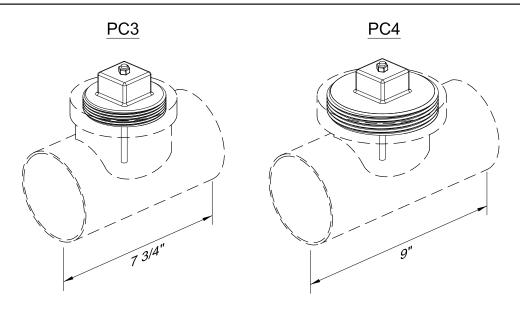
PC Series Pinned Clean-out Plug

1	PLUG TYPE	MODEL NUMBER
	3" PVC	PC3
	3" BRASS	PCB3
	4" PVC	PC4
	4" BRASS	PCB4



Pinned clean-out plug shall be: Willoughby Model No. **PC____**

This option requires the use of a clean-out tee (SOLD SEPARATELY). The PVC or brass plug has a permanent stainless steel pin which extends downward to catch large objects passing through the waste piping.





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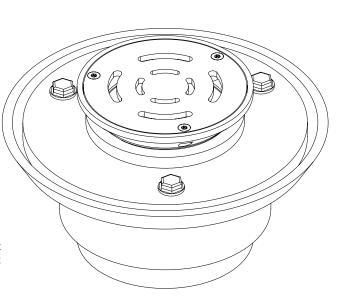


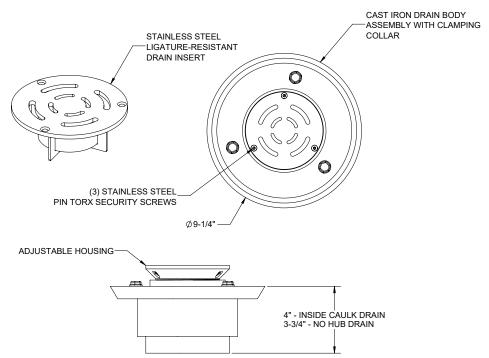
LRFD Series Ligature-Resistant Floor Drain - Round Strainer

Ligature-resistant floor drain with round strainer shall be Willoughby Model No. LRFD-__RD-__-_ (select from model number and options list below). Floor drain assembly shall be cast iron with two piece body with double flange and 1/2" primer tap, invertible flashing collar, weep holes, bottom outlet connection and Nikaloy adjustable housing with heavy gauge, stainless steel, ligature-resistant drain insert. The drain insert has 2-1/8 in² of open space for both the 5" and 6" insert.

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1.) Base Model Number:

☐ LRFD Ligature-resistant floor

2.) Drain Insert

☐ 5RD 5"Ø

☐ 6RD 6"Ø

3.) Pipe Size

☐ 2 2" Ø Pipe size

☐ 3 3" Ø Pipe size

☐ 4 4" Ø Pipe size

4.) Connection Type

☐ NH No-Hub Drain

☐ ICD Inside Caulk Drain

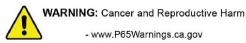
☐ PHG Push-On Hub with Gasket

5.) Domestic Drain

(Optional - at additional cost)

■ BAA Buy America Act Compliant

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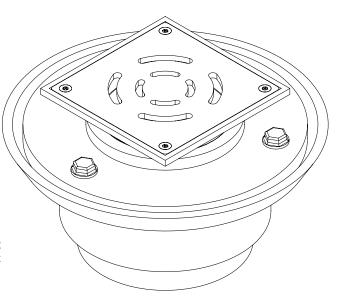


LRFD Series Ligature-Resistant Floor Drain - Square Strainer

Ligature-resistant floor drain with square strainer shall be Willoughby Model No. LRFD-__SQ-_-__ (select from model number and options list below). Floor drain assembly shall be cast iron with two piece body with double flange and 1/2" primer tap, invertible flashing collar, weep holes, bottom outlet connection and Nikaloy adjustable housing with heavy gauge, stainless steel, ligature-resistant drain insert. The drain insert has 2-3/16 in² of open space for both the 5" and 6" insert.

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STAINLESS STEEL LIGATURE-RESISTANT DRAIN INSERT (4) STAINLESS STEEL PIN TORX SECURITY SCREWS (5) 9-1/4" ADJUSTABLE HOUSING 4" - INSIDE CAULK DRAIN 3-3/4" - NO HUB DRAIN

1.) Base Model Number:

☐ LRFD Ligature-resistant floor

2.) Drain Insert

- ☐ 5SQ 5" Square
- ☐ 6SQ 6" Square

3.) Pipe Size

- ☐ 2 2" Ø Pipe size
- □ 3□ 4□ 4□ Pipe size□ 4

4.) Connection Type

- ☐ NH No-Hub Drain
- ☐ ICD Inside Caulk Drain
- ☐ PHG Push-On Hub with Gasket

5.) Domestic Drain

(Optional - at additional cost)

■ BAA Buy America Act Compliant

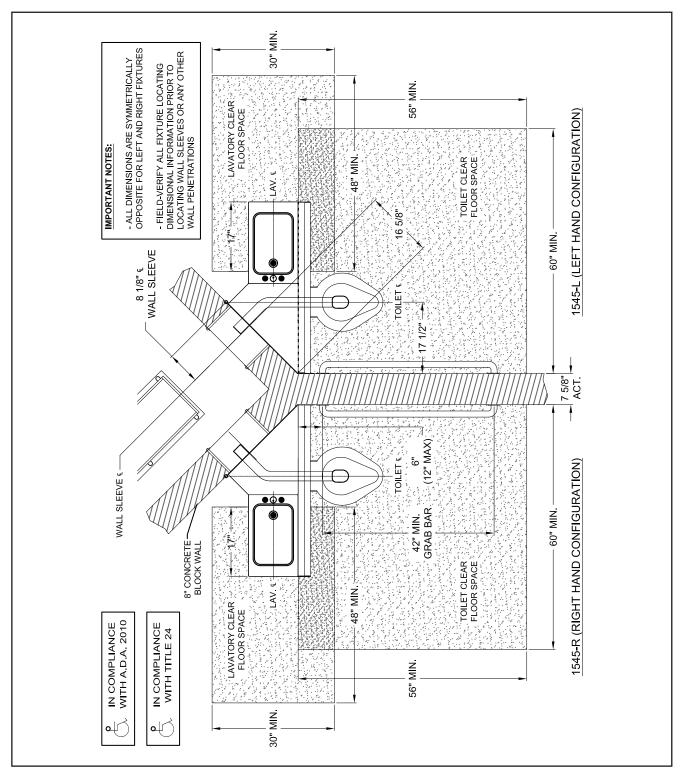
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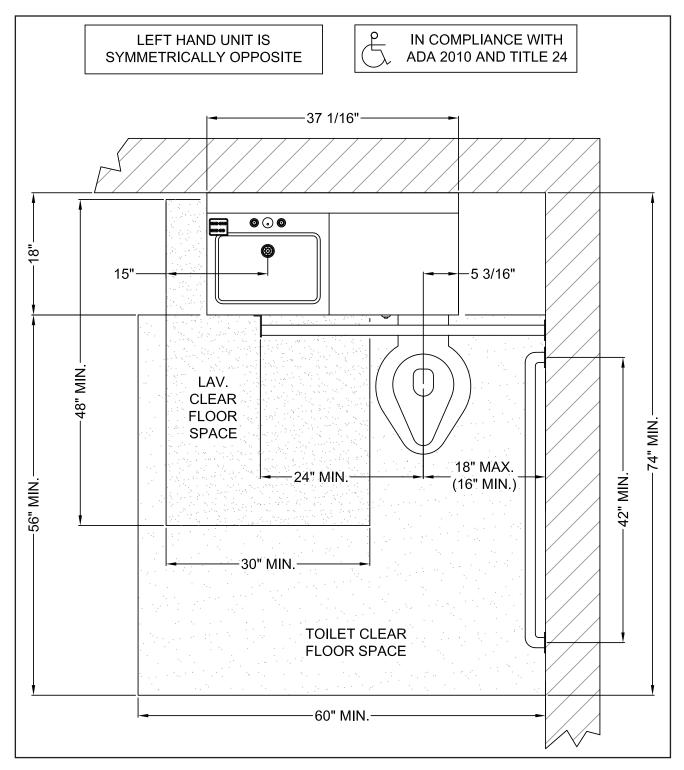
1545 Series Handicap Combination Unit Layout





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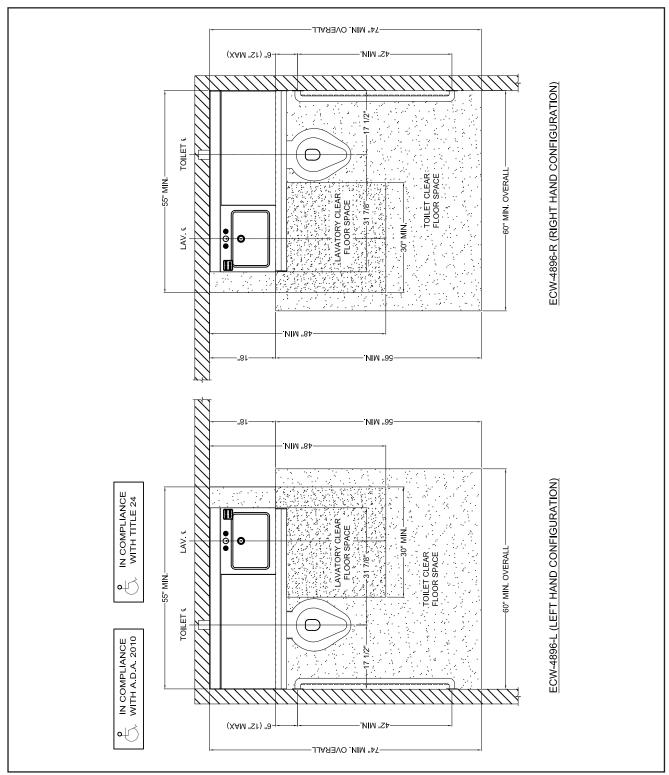
3696 Series Handicap Combination Unit Layout



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4896 Series Handicap Combination Unit Layout

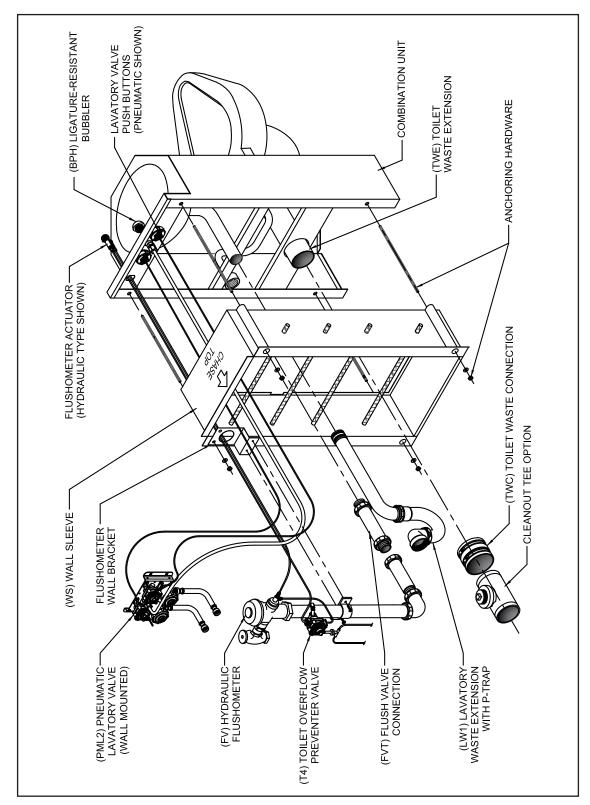


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Typical Combination Unit Installation







Flush Valve Selection Chart

FIXTURE SERIES	DESCRIPTION	SLOAN	ZURN HYDRAULIC
1545	ADA COMBINATION	9603	ZH-6603XL
1546	COMBINATION	9603	ZH-6603XL
1845-FA	FRONT ACCESS ADA COMBINATION	950	ZH-6150XL
1846	COMBINATION	9603	ZH-6603XL
1846-FA	FRONT ACCESS COMBINATION	950	ZH-6150XL
1847	COMBINATION	9603	ZH-6603XL
1847-FA	FRONT ACCESS COMBINATION	950	ZH-6150XL
2046	COMBINATION	9603	ZH-6603XL
2046-FA	FRONT ACCESS COMBINATION	950	ZH-6150XL
2696	COMBINATION	9603	ZH-6603XL
2696-FA	FRONT ACCESS COMBINATION	950	ZH-6150XL
3696	ADA COMBINATION	9603	ZH-6603XL
3696-FA	FRONT ACCESS ADA COMBINATION	950	ZH-6150XL
4896	ADA COMBINATION	9603	ZH-6603XL
4896-FA	FRONT ACCESS ADA COMBINATION	920	ZH-6150XL
ASETF-1490-FM-BS	LIGATURE-RESISTANT WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ASETF-1490-FM-BS-HC	ADA LIGATURE-RESISTANT WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ASETF-1490-FM-FA-BS	FRONT ACCESS LIGATURE-RESISTANT WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ASETF-1490-FM-FA-BS-HC	FRONT ACCESS ADA LIGATURE-RESISTANT WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ASETF-1490-FM-TS	LIGATURE-RESISTANT WATER CLOSET - TOP SPUD	910	ZH-6606XL
ASETF-1490-FM-TS-HC	ADA LIGATURE-RESISTANT WATER CLOSET - TOP SPUD	910	ZH-6606XL
ASETF-1490-FM-FA-TS	FRONT ACCESS LIGATURE-RESISTANT WATER CLOSET - TOP SPUD	910	ZH-6606XL
ASETF-1490-FM-FA-TS-HC	FRONT ACCESS ADA LIGATURE-RESISTANT WATER CLOSET - TOP SPUD	910	ZH-6606XL
ASETW-1490-FM-BS	LIGATURE-RESISTANT WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ASETW-1490-FM-BS-HC	ADA LIGATURE-RESISTANT WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ASETW-1490-FM-FA-BS	FRONT ACCESS LIGATURE-RESISTANT WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ASETW-1490-FM-FA-BS-HC	FRONT ACCESS ADA LIGATURE-RESISTANT WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ASETW-1490-FM-TS	LIGATURE-RESISTANT WATER CLOSET - TOP SPUD	910	ZH-6606XL
ASETW-1490-FM-TS-HC	ADA LIGATURE-RESISTANT WATER CLOSET - TOP SPUD	910	ZH-6606XL
ASETW-1490-FM-FA-TS	FRONT ACCESS LIGATURE-RESISTANT WATER CLOSET - TOP SPUD	910	ZH-6606XL
ASETW-1490-FM-FA-TS-HC	FRONT ACCESS ADA LIGATURE-RESISTANT WATER CLOSET - TOP SPUD	910	ZH-6606XL
ASETWS-1490-FM-BS	LIGATURE-RESISTANT WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ASETWS-1490-FM-BS-HC	ADA LIGATURE-RESISTANT WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ASETWS-1490-FM-FA-BS	FRONT ACCESS LIGATURE-RESISTANT WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ASETWS-1490-FM-FA-BS-HC	FRONT ACCESS ADA LIGATURE-RESISTANT WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ASETWS-1490-FM-TS	LIGATURE-RESISTANT WATER CLOSET - TOP SPUD ADA LIGATURE-RESISTANT WATER CLOSET - TOP SPUD	910	ZH-6606XL ZH-6606XI
		2	7



Flush Valve Selection Chart (cont.)

		SLOAN	
PIXIUKE SEKIES	DESCRIPTION FROM TACCESS TO ATTIBE BESISTANT WATER OF OSET TOR SPITE	HYDKAULIC	HYDKAULIC 7U GEOGYI
ASETWS-1490-FM-FA-TS-HC	FRONT ACCESS ADA LIGATURE-RESISTANT WATER CLOSET - TOP SPUD	910	ZH-6606XI
ETF-1490-FM-BS	WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ETF-1490-FM-BS-HC	ADA WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ETF-1490-FM-FA-BS	FRONT ACCESS WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ETF-1490-FM-FA-BS-HC	FRONT ACCESS ADA WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ETF-1490-FM-TS	WATER CLOSET - TOP SPUD	910	ZH-6606XL
ETF-1490-FM-TS-HC	ADA WATER CLOSET - TOP SPUD	910	ZH-6606XL
ETF-1490-FM-FA-TS	FRONT ACCESS WATER CLOSET - TOP SPUD	910	ZH-6606XL
ETF-1490-FM-FA-TS-HC	FRONT ACCESS ADA LIGATURE-RESISTANT WATER CLOSET - TOP SPUD	910	ZH-6606XL
ETW-1490-FM-BS	WATER CLOSET - BACK SPUD	8096	ZH-6603XL
ETW-1490-FM-BS-HC	ADA WATER CLOSET - BACK SPUD	8003	ZH-6603XL
ETW-1490-FM-FA-BS	FRONT ACCESS WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ETW-1490-FM-FA-BS-HC	FRONT ACCESS ADA WATER CLOSET - BACK SPUD	8003	ZH-6603XL
ETW-1490-FM-TS	WATER CLOSET - TOP SPUD	910	ZH-6606XL
ETW-1490-FM-TS-HC	ADA WATER CLOSET - TOP SPUD	910	ZH-6606XL
ETW-1490-FM-FA-TS	FRONT ACCESS WATER CLOSET - TOP SPUD	910	ZH-6606XL
ETW-1490-FM-FA-TS-HC	FRONT ACCESS ADA WATER CLOSET - TOP SPUD	910	ZH-6606XL
ETWS-1490-FM-BS	WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ETWS-1490-FM-BS-HC	ADA WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ETWS-1490-FM-FA-BS	FRONT ACCESS WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ETWS-1490-FM-FA-BS-HC	FRONT ACCESS ADA WATER CLOSET - BACK SPUD	8096	ZH-6603XL
ETWS-1490-FM-TS	WATER CLOSET - TOP SPUD	910	ZH-6606XL
ETWS-1490-FM-TS-HC	ADA WATER CLOSET - TOP SPUD	910	ZH-6606XL
ETWS-1490-FM-FA-TS	FRONT ACCESS WATER CLOSET - TOP SPUD	910	ZH-6606XL
ETWS-1490-FM-FA-TS-HC	FRONT ACCESS ADA WATER CLOSET - TOP SPUD	910	ZH-6606XL
ETW-1490-OF-BS	OFF-FLOOR WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ETW-1490-OF-TS	OFF-FLOOR WATER CLOSET - TOP SPUD	910	ZH-6606XL
ETWS-1490-CM-BS	CARRIER MOUNT WATER CLOSET - BACK SPUD	9603	ZH-6603XL
ETWS-1490-CM-TS	CARRIER MOUNT WATER CLOSET - TOP SPUD	910	ZH-6606XL
ETW-1490-ES	COMPACT WATER CLOSET	9603	ZH-6603XL
FD-1400-LF	DETOX UNIT LESS FLANGES	950	ZH-6150XL
FD-1400-WF	DETOX UNIT WITH FLANGES	950	ZH-6150XL





Flush Valve Selection Chart (cont.)

FIXTURE SERIES	DESCRIPTION	SLOAN	ZURN
ASUW-1314-HEU	HIGH EFFICIENCY URINAL	9613	
ASUW-1314-HEU-FA	FRONT ACCESS HIGH EFFICIENCY URINAL	9613	
UW-1317-HEU	HIGH EFFICIENCY URINAL	9613	
UW-1317-HEU-BS	HIGH EFFICIENCY URINAL	9613	
UW-1317-HEU-FA	FRONT ACCESS HIGH EFFICIENCY URINAL	9613	
UW-1317-HEU-TS	HIGH EFFICIENCY URINAL	9613	
UW-1412-BJ-BS	URINAL	6096	TX6099-HZ
UW-1412-BJ-BS-FA	FRONT ACCESS URINAL	6096	TX6099-HZ
UW-1412-BJ-TS	URINAL	086	ZH-6610XL
UW-1412-BJ-TS-FA	FRONT ACCESS URINAL	086	ZH-6610XL
UW-1412-WO-BS	URINAL	9613	ZH-6613XL
UW-1412-WO-BS-FA	FRONT ACCESS URINAL	9613	ZH-6613XL
UW-1412-WO-TS	URINAL	986	ZH-6614XL
UW-1412-WO-TS-FA	FRONT ACCESS URINAL	986	ZH-6614XL
UW-1438-BS	URINAL	9613	ZH-6613XL
UW-1438-TS	URINAL	986	ZH-6614XL
UW-1814-BJ-BS	URINAL	6096	TX6099-HZ
UW-1814-BJ-BS-FA	FRONT ACCESS URINAL	6096	TX6099-HZ
UW-1814-BJ-TS	URINAL	086	ZH-6610XL
UW-1814-BJ-TS-FA	FRONT ACCESS URINAL	086	ZH-6610XL
UW-1814-WO-BS	URINAL	9613	ZH-6613XL
UW-1814-WO-BS-FA	FRONT ACCESS URINAL	9613	ZH-6613XL
UW-1814-WO-TS	URINAL	986	ZH-6614XL
UW-1814-WO-TS-FA	FRONT ACCESS URINAL	986	ZH-6614XL
UW-1836-BS	URINAL	9613	ZH-6613XL
UW-1836-TS	URINAL	986	ZH-6614XL
UW-1848-BS	URINAL	9613	ZH-6613XL
UW-1848-TS	URINAL	986	ZH-6614XL
UW-1860-BS	URINAL	9613	ZH-6613XL
UW-1860-TS	URINAL	986	ZH-6614XL
UW-1872-BS	URINAL	6096	TX6099-HZ
UW-1872-TS	URINAL	086	ZH-6610XL
UW-1896-BS	URINAL	6096	ZH-6609XL
UW-1896-TS	URINAL	086	ZH-6610XL



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COMMERCIAL PRODUCTS	
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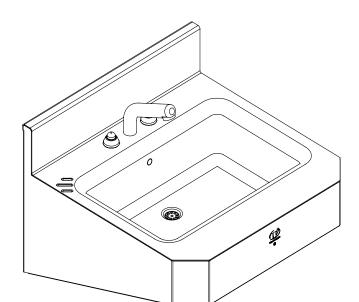


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Willoughby Industries - Commercial Products



ES-1015-HC Handicap Stainless Steel Commercial Lavatory





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Handicap Stainless Steel Commercial Lavatory with deck mounted spout, dual temp. pneumatic metering valves, standard ligature-resistant pneumatic push buttons, standard lav. overflow vent, and chrome plated removable P-trap

Use the following Willoughby Model Number:
ES-1015-HC-DMS-PML2-PBH-OV-TT

Recommended Specifications

Handicap Stainless Steel Commercial Lavatory shall be: Willoughby Model No. **ES-1015-HC** (select from model number and options list on next page)

Fixture shall be fabricated from 16 gauge, Type 304 stainless steel. The construction is all-welded with exposed stainless surfaces polished to a #3 satin finish.

Standard lavatory shall include:

- Rectangular-shaped bowl, 14-1/2" x 9-1/2" x 4-3/8" deep
- Fast drain with overflow vent
- 4" long, Ø1-1/2" tailpiece
- Self-draining soap dish
- 0.5 GPM flow rate

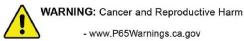
Mounting:

Anchoring shall be from the front with Z-clip and anchoring holes provided. Anchoring hardware by others. Wall requires adequate backing to support lavatory. Unit requires no chase area for installation and maintenance.

ADA, TAS, and ANSI Compliant:

When the lavatory is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

<u>Note:</u> Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.



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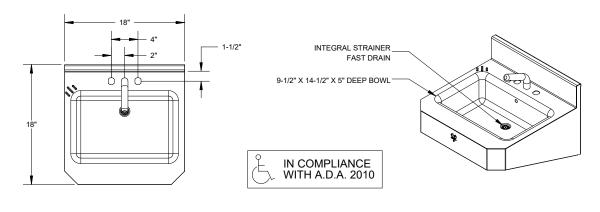


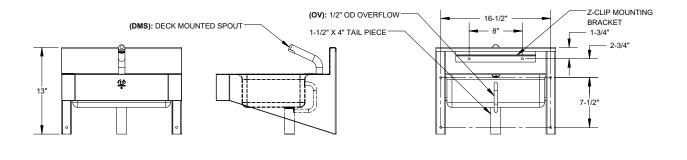
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MODEL NUMBER AND OPTIONS: 6.) Lavatory Waste Options: 1.) Lavatory Model: Chrome Plated Removable P-Trap ☐ ES-1015-HC 18" Handicap Stainless Steel □ TT Commercial Lavatory □ TE Trap Enclosure OV Overflow Vent (Standard) 2.) Spout/Bubbler Selection: □ DMS **Deck Mounted Spout** 7.) Other Options: ☐ TMV ☐ DMBH Deck Mounted Ligature-resistant Hemispherical Bubbler** In-line Thermostatic Mixing Valve (Not for ADA compliant drinking) ☐ DC Decorator Color (Fixture exterior only - White) ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard) 3.) Valve Selection: Plug-in Transformer, 110VAC to 24VAC* ☐ TF24P □ NV No Valve, No Spout / Bubbler- Faucet by Others □ Other (Select Hole Punching if needed) Other ☐ PSL1 Single Temp. Pneumatic Non-metering ☐ PSL2 Dual Temp. Pneumatic Non-metering 8.) Electronic Controls* (Must Use Electronic Push Button): ☐ PML1 Single Temp. Pneumatic Metering ☐ WUCC-3010 Pneutronic ☐ PML2 Dual Temp. Pneumatic Metering (The WUCC-3010 Control can be used to pair a Lavatory with a Toilet) □ E1L1 Single Temp. Electronic (w/ Pneutronic Control)* ■ E1L2 Dual Temp. Electronic (w/ Pneutronic Control)* *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **LIGATURE-RESISTANT DISCLAIMER 4.) Valve Actuation: ☐ PBH Ligature-resistant Pneumatic Push Buttons** This product is designed to minimize ligature points. While every effort has Ligature-resistant Piezo Electronic Push Buttons*/** been made to reduce the possibility of ligature points, this product does not PZPB eliminate all risks. Ligature-Resistant products by Willoughby Industries are 5.) Hole Punching Selection (Faucet by Others): to be used in conjunction with, not as a replacement for, trained ☐ 4CC 4" Centerset, Ø1-1/4" Holes (3 Holes) professionals. ☐ 8CC 8" Centerset, Ø1-1/4" Holes (3 Holes) ☐ 1CC Center Shank, (1) Ø1-1/4" Hole (1 Hole) ☐ SP Special Punching (Specify hole punching dim.)

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____



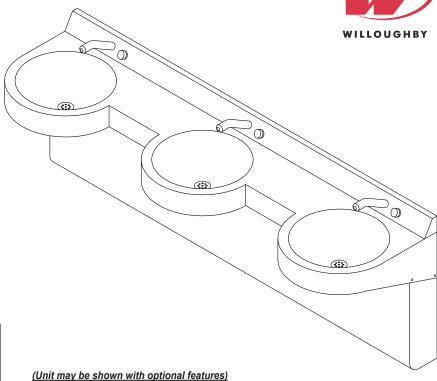




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CWLDR Series Round Front Stainless Steel **Lavatory Deck**





To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Round Front, Stainless Steel Lavatory Deck with 3 stations, standard off-floor mounting (34" rim height), backsplash mounted spouts, single temp pneumatic palm push buttons, standard lav. overflow vents, and thermostatic mixing valve

Use the following Willoughby Model Number:

CWLDR-3-OF-BMS-PLPB1-OV-TMV

Recommended Specifications

Round Front, Stainless Steel Lavatory Deck shall be: Willoughby Model No. CWLDR (select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, Type 304 stainless steel. The construction is all-welded with exposed stainless surfaces polished to a #3 satin finish.

Standard lavatory deck shall include:

- Ø15-3/4" by 5" deep lavatory bowls
- Basin overflows
- Fast drains with overflow vents
- Elbow waste w/ tailpiece-type connections for Ø1-1/2" slip-joint P-trap installations (P-traps by others)
- Stainless steel trap enclosure/pipe shroud

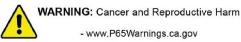
Mounting:

Anchoring shall be from the front with Z-clip and anchoring holes provided. Anchoring hardware by others. Wall requires adequate backing to support lavatory deck. Unit requires no chase area for installation and maintenance.

ADA, TAS, and ANSI Compliant:

When the lavatory is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines. Lavatory deck can be ordered with 31" rim height for juvenile use (JR).

Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

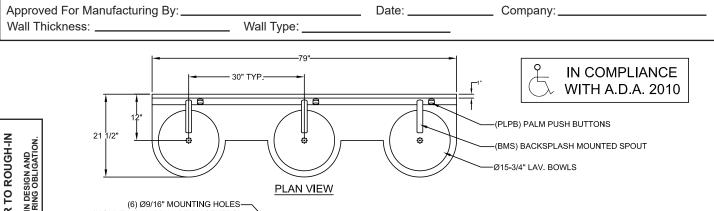


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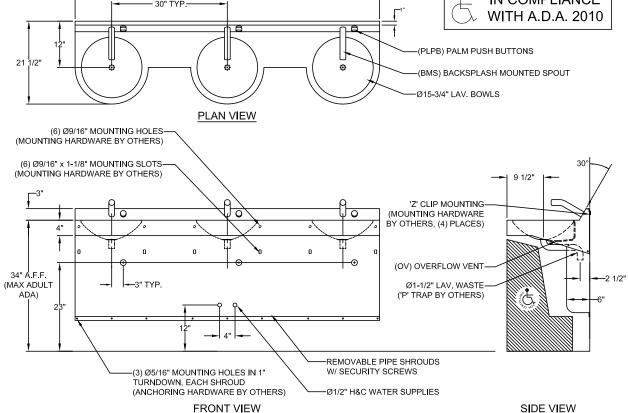
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1.) Lavatory Model: 6.) Hole Punching Selection (Faucet by Others): ☐ 1CC ☐ CWLDR Round Front Stainless Steel Lavatory Deck Center Shank, (1) Ø1-1/4" Hole (Requires offset mounting) □ SP Special Punching (Specify hole punching dim.) 2.) Number of Wash Stations: (19" Width) 1 **2** (49" Width) 7.) Lavatory Waste Options: (79" Width) LE □ 3 Less Trap Enclosure **4** (109" Width) OV Overflow Vent (Standard) 3.) Lavatory Mounting: 8.) Other Options: ☐ OF Off-floor Mounted ☐ KPLD Lavatory Kick Plate In-line Thermostatic Mixing Valve ■ TMV 4.) Spout Selection: ☐ DC Decorator Color (Fixture exterior only - White) □ DMS Deck Mounted Spouts, 0.5 GPM (Offset to side of bowl) ■ LSDM Liquid Soap Dispensers- Deck-mounted Spout and Bottle JR □ BMS Backsplash Mounted Spouts, 0.5 GPM Junior Height (31" Rim Height, JR. ADA Compliant) Other 5.) Valve Selection: ☐ Other No Valve, No Spout- Faucet by Others (Select Hole Punching if needed) ■ NV ☐ PLPB1 Pneumatic Palm Push Buttons for Single Temperature Pneumatic Metering *(Reg. 110V power through ground fault interrupter (GFCI) receptacle) ☐ PZPB1 Ligature-resistant Piezo Electronic Push Buttons for Single Temperature Electronic (w/ Pneutronic Control)*/** **LIGATURE-RESISTANT DISCLAIMER Infrared Sensors, Hard-wired (Must select (DMS) Deck Mounted Spout)* This product is designed to minimize ligature points. While every □ IR effort has been made to reduce the possibility of ligature points, this □ во Infrared Sensors, Battery Operated (Must select (DMS) Deck Mounted Spout) product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained



professionals.

DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION **VERIFY ALL**



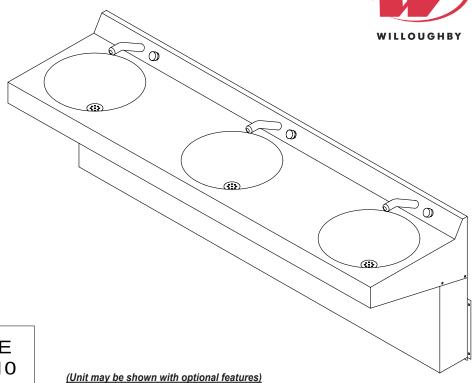
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CWLD Series Straight Front Stainless Steel **Lavatory Deck**



IN COMPLIANCE WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Straight Front, Stainless Steel Lavatory Deck with 3 stations, standard off-floor mounting (34" rim height), backsplash mounted spouts, single temp pneumatic palm push buttons, round lav. bowls, standard lav. overflow vents, and thermostatic mixing valve

Use the following Willoughby Model Number: CWLD-3-OF-BMS-PLPB1-RND-OV-TMV

Recommended Specifications

Straight Front, Stainless Steel Lavatory Deck shall be: Willoughby Model No. CWLD (select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, Type 304 stainless steel. The construction is all-welded with exposed stainless surfaces polished to a #3 satin finish.

Standard lavatory deck shall include:

- Ø15-3/4" by 5" deep lavatory bowls
- Basin overflows
- Fast drains with air vents
- Elbow waste w/ tailpiece-type connections for Ø1-1/2" slip-joint P-trap installations (P-traps by others)
- Stainless steel trap enclosure/pipe shroud

Mounting:

Anchoring shall be from the front with Z-clip and anchoring holes provided. Anchoring hardware by others. Wall requires adequate backing to support lavatory deck. Unit requires no chase area for installation and maintenance.

ADA, TAS, and ANSI Compliant:

When the lavatory is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines. Lavatory deck can be ordered with 31" rim height for juvenile use (JR).

Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

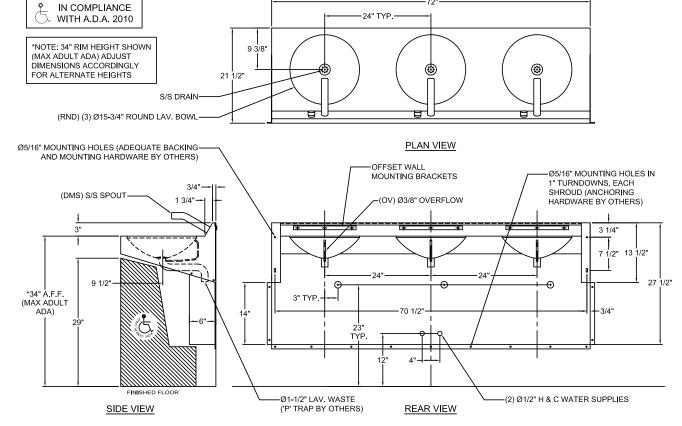


MADE IN THE U.S.A.

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1.) Lavatory	,	,	unching Selection (Faucet by Others):
☐ CWLD	Straight Front Stainless Steel Lavatory Deck	☐ 4CC	4" Centerset, Ø1-1/4" Holes*
2 \ Number	of Wash Stations:	□ 8CC	(Requires Oval bowl, specify 2 or 3 holes:) 8" Centerset, Ø1-1/4" Holes*
•		_ 000	,
<u>1</u>	(24" Width)	D 400	(Requires Oval bowl, specify 2 or 3 holes:) Center Shank, (1) Ø1-1/4" Hole
2	(48" Width)	☐ 1CC	
_	(72" Width)	☐ SP	Special Punching (Specify hole punching dim.)
4	(96" Width)		SP:
3.) Lavatory	y Mounting:	8.) Lavator	y Waste Options:
☐ OF	Off-floor Mounted	LE LE	Less Trap Enclosure
_		□ ov	Overflow Vent (Standard)
4.) Spout S	election:	_	,
□ DMS	Deck Mounted Spouts, 0.5 GPM (Offset to side of bowl)	9.) Other C	Options:
■ BMS	Backsplash Mounted Spouts, 0.5 GPM	KPLD	Lavatory Kick Plate
		☐ TMV	In-line Thermostatic Mixing Valve
5.) Valve Se	election:	DC	Decorator Color (Fixture exterior only - White)
☐ NV	No Valve, No Spout- Faucet by Others (Select Hole Punching if needed)	LSDM	Liquid Soap Dispensers- Deck-mounted Spout and Bottle
☐ PLPB1	Pneumatic Palm Push Buttons for Single Temperature Pneumatic Metering	☐ JR	Junior Height (31" Rim Height, JR. ADA Compliant)
☐ PZPB1	Ligature-resistant Piezo Electronic Push Buttons for Single Temperature		
_	Electronic (w/ Pneutronic Control)*/**		
□ IR	Infrared Sensors, Hard-wired (Must select (DMS) Deck Mounted Spout)*		
□ во	Infrared Sensors, Battery Operated (Must select (DMS) Deck Mounted Spout)	*(Req. 110\	/ power through ground fault interrupter (GFCI) receptacle)
6.) Lavatory	,		RE-RESISTANT DISCLAIMER
RND	Round Bowl		act is designed to minimize ligature points. While every effort has
OVL	Oval Bowl		e to reduce the possibility of ligature points, this product does not
			all risks. Ligature-Resistant products by Willoughby Industries are
			I in conjunction with, not as a replacement for, trained
		profession	als.

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____



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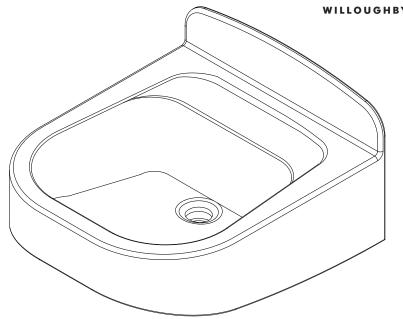
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WEL-2311 **Aquasurf**® **Single Station Executive Lavatory**





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options Guide.

Example: To specify an Aquasurf® Single Station Executive Lavatory with no faucet holes (standard), Sandstone color, and a stainless steel trap cover

Use the following Willoughby Model Number:
WEL-2311-NV-SS-TE

Recommended Specifications

Aquasurf® Single Station Executive Lavatory shall be: Willoughby Model No. WEL-2311 (Select from model number and options list on next page)

Aquasurf® Executive Lavatory bowl shall be constructed of molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive*. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

Aquasurf® Executive Lavatory will accommodate one user at a time and features standard integral:

- Oval bowl with soap/faucet ledge
- 4" coved backsplash
- Wrap-around front edge
- Basin overflow

Mounting:

Heavy-gauge stainless steel mounting bracket shall be supplied standard with the lavatory (fasteners by others).

Faucet Holes:

Aquasurf® Executive Lavatory can be drilled for 4" Centerset (4CC) faucet, 8" Centerset (8CC) faucet, 1" Centershank (1CC) faucet, and/or deck-mounted soap dispensers/accessories (deck can be ordered with holes from the factory or without holes for later installation; faucets and accessories by others).

ADA, TAS, and ANSI Compliant:

When the deck is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines without the need for an offset drain.

Optional Features:

Aquasurf® Executive Lavatories are available with an optional stainless steel trap cover.

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



WARNING: Cancer and Reproductive Harm

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© Rev. 6/2022

1.) Base Model Number:

☐ WEL-2311 Aquasurf® Single Station Executive Lavatory

2.) Hole Drilling Selection (Faucet by Others):

■ NV No Faucet Holes (Standard)

4°C 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)

8° Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)

IN COMPLIANCE

☐ 1CC Center Shank, (1) Ø1-1/4" Hole

☐ SP Special Drilling (Specify hole drilling dim.)

3.) Solid Surface Colors:

■ BN Bone

☐ GW Glacier White

☐ GG Grey Granite

☐ SS Sandstone

□ WG White Granite□ BG Black Granite

■ NB Nocturnal Blue

□ RC Red Coral□ SG Sea Green

4.) Options:

☐ TE Trap Enclosure

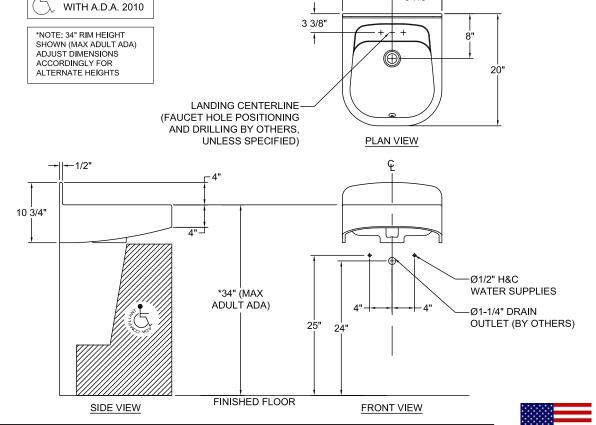
□ Other□ Other

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____

17 3/4"-

-8 7/8"



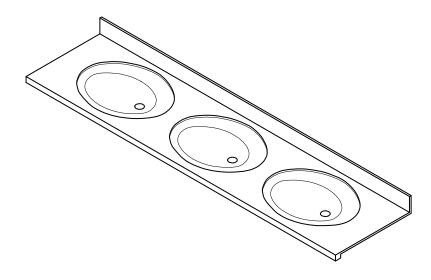


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AquaDeck 2230 Series Square Front (1-1/2") Solid Surface Lavatory Deck





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options Guide.

Example: To specify an AquaDeck 2230 Series, Square Front (1-1/2"), Solid Surface Lavatory Deck with no faucet holes (standard), White Granite color, standard square-eased front edge, and right and left side splashes

Use the following Willoughby Model Number: WAD-2230-3-NV-WG-WADSS-0422R-WADSS-0422L

Recommended Specifications

AquaDeck 2230 Series, Square Front (1-1/2"), Solid Surface Lavatory Deck shall be:

Willoughby Model No. WAD-2230

(Select from model number and options list on next page)

The lavatory deck shall be constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive*. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

AquaDeck lavatory deck shall be a modular cast component with standard integral features:

- Oval bowl with soap/faucet ledge
- 4" coved backsplash
- Straight sides
- 1-1/2" square-eased front edge
- Basin overflow
- Drain hole for 1-1/4" pop-up drain

Mounting:

Unit is designed to be supported by in-wall carriers (supplied by others). Optional stainless steel wall mounting brackets are available; specify left or right brackets when ordering.

ADA, TAS, and ANSI Compliant:

When the lavatory deck is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Optional Features:

AquaDeck lavatory decks offer liquid soap dispensers as optional accessories.

AquaDeck lavatory decks can be ordered with Bullnosed or Beveled front edge styles instead of standard square-eased edges and/or 31" rim heights for juvenile use (JR).

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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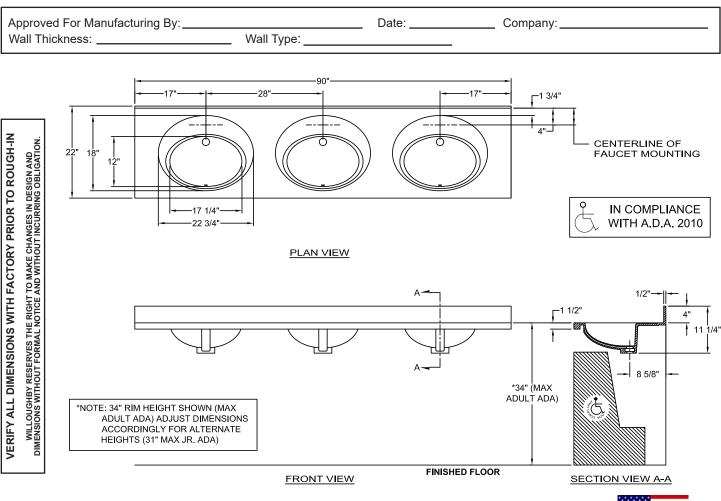
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1.) Lavato	ry Model:			5.) Edge \$	Style:	
☐ WAD-2	230	•	x 2230 Series, Square Front (1-1/2"), ace Lavatory Deck	☐ BLN ☐ BV	Square-e Bullnose Beveled	eased Front Edge (Standard) d
2.) Numbe	r of Wash	Stations:				
1	2	□ 3	□ 4	6.) Option	ıs:	
				☐ LSDM		Liquid Soap Dispensers- Deck-mounted Spout and Bottle
3.) Hole Di	rilling Sele	ection (Fau	cet by Others):	☐ JR		Junior Height, 31" Rim Height (JR. ADA Compliant)
■ NV	No Fauc	et Holes (S	tandard)	■ WADS	S-BRKT-R	Wall Mounting Bracket- Right
☐ 4CC	4" Cente	rset, Ø1-1/4	4" Holes (Specify 2 or 3 holes:)	■ WADS	S-BRKT-L	Wall Mounting Bracket- Left
☐ 8CC	8" Cente	rset, Ø1-1/4	4" Holes (Specify 2 or 3 holes:)	■ WADS	S-0422R	Right Side Splash
☐ 1CC	Center S	hank, (1) Ø	i1-1/4" Hole	■ WADS	S-0422L	Left Side Splash
□ SP	Special [Orilling (Spe	ecify hole drilling dim.)	■ W-SS-	DS	Stainless Steel Modular Drain Shroud
	SP:			Other		
				Other		
4.) Solid S	urface Co	lors:				
■ BN	Bone					
☐ GW	Glacier V	Vhite				
☐ GG	Grey Gra	anite				
□ SS	Sandstor	ne				
■ WG	White Gr	anite				
□ BG	Black Gr	anite				
■ NB	Nocturna	l Blue				
☐ RC	Red Cora	al				
☐ SG	Sea Gree	en				



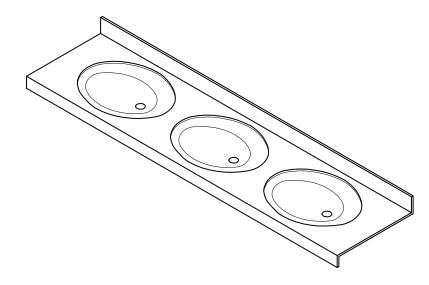
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AquaDeck 2235 Series Square Front (3") Solid Surface Lavatory Deck





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options Guide.

Example: To specify an AquaDeck 2235 Series, Square Front (3"), Solid Surface Lavatory Deck with no faucet holes (standard), Black Granite color, bullnose front edge, and left side apron

Use the following Willoughby Model Number: WAD-2235-3-NV-BG-BLN-WAD-APIS-422L

Recommended Specifications

AquaDeck 2235 Series, Square Front (3"), Solid Surface Lavatory Deck shall be: Willoughby Model No. **WAD-2235** (Select from model number and options list on next page)

The lavatory deck shall be constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive*. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

AquaDeck lavatory deck shall be a modular cast component with standard integral features:

- Oval bowl with soap/faucet ledge
- 4" coved backsplash
- Straight sides
- 3" square-eased front edge
- Basin overflow
- Drain hole for 1-1/4" pop-up drain

Mounting:

Unit is designed to be supported by in-wall carriers (supplied by others). Optional stainless steel wall mounting brackets are available; specify left or right brackets when ordering.

ADA, TAS, and ANSI Compliant:

When the lavatory deck is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Optional Features:

AquaDeck lavatory decks offer liquid soap dispensers as optional accessories.

AquaDeck lavatory decks can be ordered with Bullnosed or Beveled front edge styles instead of standard square-eased edges and/or 31" rim heights for juvenile use (JR).

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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1.) Lavat	ory Model:			5	5.) Edge S	ityle:	
■ WAD-	2235	AquaDed	ck 2235 Series, Square Front (3"),	Ţ		Square-e	eased Front Edge (Standard)
		Solid Sur	face Lavatory Deck	Ţ	BLN	Bullnose	d
				Ţ	⊒ BV	Beveled	
2.) Numb	er of Wash	Stations:					
1	2	3	□ 4	6	S.) Option	s:	
				Ţ	LSDM		Liquid Soap Dispensers- Deck-mounted Spout and Bottle
3.) Hole I	Drilling Sele	ection (Fa	ucet by Others):	Ţ	」 JR		Junior Height, 31" Rim Height (JR. ADA Compliant)
■ NV	No Fauc	et Holes (S	Standard)	Ţ	☐ WADS	S-BRKT-R	Wall Mounting Bracket- Right
☐ 4CC	4" Cente	erset, Ø1-1	/4" Holes (Specify 2 or 3 holes:)	Ţ	☐ WADS	S-BRKT-L	Wall Mounting Bracket- Left
☐ 8CC	8" Cente	erset, Ø1-1	/4" Holes (Specify 2 or 3 holes:)	Ţ	☐ WADS	S-0422R	Right Side Splash
☐ 1CC	Center S	Shank, (1)	Ø1-1/4" Hole	Ţ	☐ WADS	S-0422L	Left Side Splash
□ SP	Special I	Drilling (Sp	ecify hole drilling dim.)	Ţ	WAD-A	PIS-422R	Integral Right Side Apron
	SP:			Ţ	WAD-A	PIS-422L	Integral Left Side Apron
				Ţ	W-SS-I	DS	Stainless Steel Modular Drain Shroud
4.) Solid	Surface Co	olors:		Ţ	Other		
■ BN	Bone			Ţ	Other		
☐ GW	Glacier \	White					
☐ GG	Grey Gra	anite					
SS	Sandsto	ne					
☐ WG	White G	ranite					
BG	Black Gr						
■ NB	Nocturna						
RC	Red Cor						
☐ SG	Sea Gre	en					

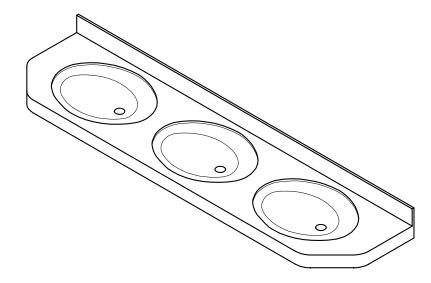
Approved For Manufacturing By: Date: _ Company: Wall Thickness: Wall Type: **□**1 3/4" 28' VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN CENTERLINE OF WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION FAUCET MOUNTING IN COMPLIANCE 17 1/4' -22 3/4" WITH A.D.A. 2010 PLAN VIEW 8 9/16" *34" (MAX ADULT ADA) *NOTE: 34" RIM HEIGHT SHOWN (MAX ADULT ADA) ADJUST DIMENSIONS ACCORDINGLY FOR ALTERNATE HEIGHTS (31" MAX JR. ADA) FINISHED FLOOR FRONT VIEW SECTION VIEW A-A

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AquaDeck 2240 Series Angled Front Solid Surface Lavatory Deck





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options Guide.

Example: To specify an AquaDeck 2240 Series, Angled Front, Solid Surface Lavatory Deck with no faucet holes (standard), Nocturnal Blue color, bullnose front edges, and right and left side splashes

Use the following Willoughby Model Number: WAD-2240-3-NV-NB-BLN-WADSS-0422R-WADSS-0422L

Recommended Specifications

AquaDeck 2240 Series, Angled Front, Solid Surface Lavatory Deck shall be:

Willoughby Model No. WAD-2240

(Select from model number and options list on next page)

The lavatory deck shall be constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive*. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

AguaDeck lavatory deck shall be a modular cast component with standard integral features:

- 45° angled front corners with matched front and side aprons
- Oval bowl with soap/faucet ledge
- 4" coved backsplash
- All square-eased front edges
- Basin overflow
- Drain hole for 1-1/4" pop-up drain

Mounting:

Unit is designed to be supported by in-wall carriers (supplied by others). Optional stainless steel wall mounting brackets are available; specify left or right brackets when ordering.

ADA, TAS, and ANSI Compliant:

When the lavatory deck is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Optional Features:

AguaDeck lavatory decks offer liquid soap dispensers as optional accessories.

AguaDeck lavatory decks can be ordered with Bullnosed or Beveled front edge styles instead of standard square-eased edges and/or 31" rim heights for juvenile use (JR).

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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C13-7

1.) Lavator	y Model:			5.) Edge S	tyle:		
■ WAD-22	240	AquaDeck 2240 Series, Angled Front,			ì	Square-e	Square-eased Front Edge (Standard)	
		Solid Surf	ace Lavatory Deck		BLN	Bullnose	d	
					BV	Beveled		
2.) Number	r of Wash	Stations:						
1	2	3	□ 4	6.) Option:	s:		
					LSDM		Liquid Soap Dispensers- Deck-mounted Spout and Bottle	
3.) Hole Dr	illing Sele	ction (Fau	cet by Others):		JR		Junior Height, 31" Rim Height (JR. ADA Compliant)	
■ NV	No Fauce	et Holes (S	tandard)		WADS	S-BRKT-R	Wall Mounting Bracket- Right	
☐ 4CC	4" Center	rset, Ø1-1/4	4" Holes (Specify 2 or 3 holes:)		WADS	S-BRKT-L	Wall Mounting Bracket- Left	
☐ 8CC	8" Center	rset, Ø1-1/4	4" Holes (Specify 2 or 3 holes:)		WADS	S-0412R	Right Side Splash	
☐ 1CC	Center S	hank, (1) Ø	11-1/4" Hole		WADS	S-0412L	Left Side Splash	
□ SP		• .	ecify hole drilling dim.)		WAD-A	PIS-412R	Integral Right Side Apron	
	SP:				WAD-A	PIS-412L	Integral Left Side Apron	
					W-SS-[OS	Stainless Steel Modular Drain Shroud	
4.) Solid Si	urface Co	lors:			Other			
■ BN	Bone				Other			
☐ GW	Glacier V	Vhite						
☐ GG	Grey Gra	ınite						
☐ SS	Sandstor	ne						
■ WG	White Gr	anite						
□ BG	Black Gra	anite						
■ NB	Nocturna	l Blue						
☐ RC	Red Cora	al						
☐ SG	Sea Gree	en						

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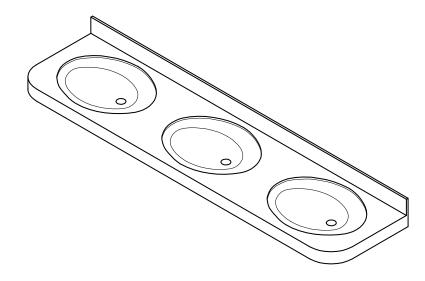
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AquaDeck 2250 Series Radiused Front Solid Surface Lavatory Deck





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options Guide.

Example: To specify an AquaDeck 2250 Series, Radiused Front, Solid Surface Lavatory Deck with no faucet holes (standard), Red Coral color, standard square-eased front edges, and right and left side splashes Use the following Willoughby Model Number: WAD-2250-3-NV-RC-WADSS-0412R-WADSS-0412L

Recommended Specifications

AguaDeck 2250 Series, Radiused Front, Solid Surface Lavatory Deck shall be:

Willoughby Model No. WAD-2250

(Select from model number and options list on next page)

The lavatory deck shall be constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive*. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

AguaDeck lavatory deck shall be a modular cast component with standard integral features:

- 6" Radius front corners with matched front and side aprons
- Oval bowl with soap/faucet ledge
- 4" coved backsplash
- All square-eased front edges
- Basin overflow
- Drain hole for 1-1/4" pop-up drain

Mounting:

Unit is designed to be supported by in-wall carriers (supplied by others). Optional stainless steel wall mounting brackets are available; specify left or right brackets when ordering.

ADA, TAS and ANSI Compliant:

When the lavatory deck is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Optional Features:

AquaDeck lavatory decks offer liquid soap dispensers as optional accessories.

AguaDeck lavatory decks can be ordered with Bullnosed or Beveled front edge styles instead of standard square-eased edges and/or 31" rim heights for juvenile use (JR).

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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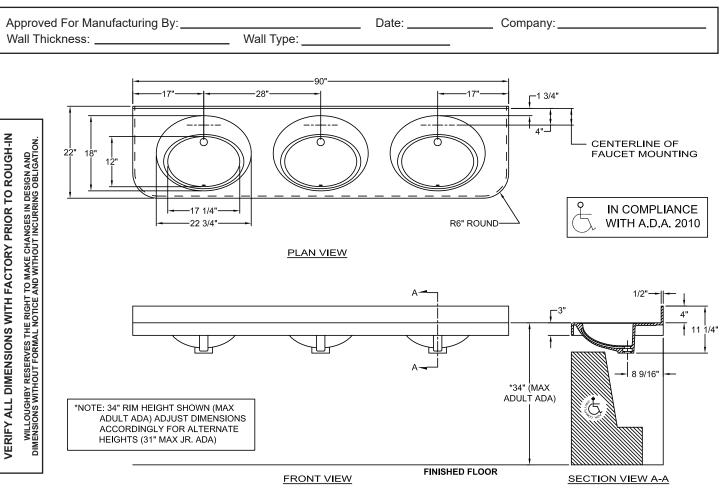
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1.) Lavatory Model:			5.	5.) Edge Style:			
☐ WAD-2	250	AquaDeck 2250 Series, Radiused Front,				Square-e	eased Front Edge (Standard)
		Solid Sur	face Lavatory Deck		BLN	Bullnose	d
					BV	Beveled	
2.) Numbe	r of Wash	Stations:					
1	2	3	4	6.	Option:	s:	
				_	LSDM		Liquid Soap Dispensers- Deck-mounted Spout and Bottle
•	rilling Sele	ection (Fa	ucet by Others):		JR		Junior Height, 31" Rim Height (JR. ADA Compliant)
■ NV	No Fauc	et Holes (S	Standard)		WADS	S-BRKT-R	Wall Mounting Bracket- Right
4CC	4" Cente	rset, Ø1-1/	/4" Holes (Specify 2 or 3 holes:)		WADS	S-BRKT-L	Wall Mounting Bracket- Left
☐ 8CC	8" Cente	rset, Ø1-1/	/4" Holes (Specify 2 or 3 holes:)		WADS	S-0416R	Right Side Splash
☐ 1CC	Center S	hank, (1) 🖟	Ø1-1/4" Hole		WADS	S-0416L	Left Side Splash
□ SP	Special [Orilling (Sp	ecify hole drilling dim.)		WAD-A	PIS-416R	Integral Right Side Apron
	SP:				WAD-A	PIS-416L	Integral Left Side Apron
				_	W-SS-I	OS	Stainless Steel Modular Drain Shroud
4.) Solid S	urface Co	lors:			Other		
■ BN	Bone				Other		
☐ GW	Glacier V	Vhite					
☐ GG	Grey Gra	anite					
☐ SS	Sandstor	ne					
☐ WG	White Gr	anite					
□ BG	Black Gr	anite					
■ NB	Nocturna	al Blue					
RC RC	Red Cora	al					
☐ SG	Sea Gree	en					



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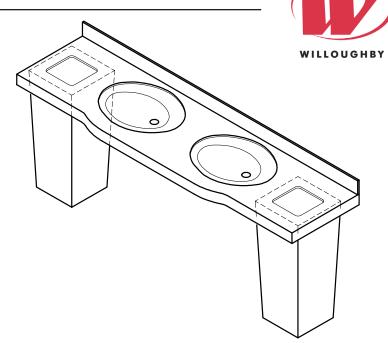
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Willoughby Industries - Commercial Ware

AquaDeck 2260 Series Contoured Front Solid Surface Lavatory Deck





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options Guide.

Example: To specify an AquaDeck 2260 Series, Contoured Front, Solid Surface Lavatory Deck with the trash receptacle design option, no faucet holes (standard), Sea Green color, bullnose front edge, and right and left integral side aprons

Use the following Willoughby Model Number: WAD-2260-2-W-SS-TR-NV-SG-BLN-WAD-APIS-422R-WAD-APIS-422L

Recommended Specifications

AquaDeck 2260 Series, Contoured Front, Solid Surface Lavatory Deck shall be:

Willoughby Model No. WAD-2260

(Select from model number and options list on next page)

The lavatory deck shall be constructed of Aguasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive*. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

AquaDeck lavatory deck shall be a modular cast component with standard integral features:

- Contoured front apron
- Oval bowl with soap/faucet ledge
- 4" coved backsplash
- All square-eased front edges
- Basin overflow
- Drain hole for 1-1/4" pop-up drain

Mounting:

Unit is designed to be supported by in-wall carriers (supplied by others). Optional stainless steel wall mounting brackets are available; specify left or right brackets when ordering.

ADA, TAS, and ANSI Compliant:

When the lavatory deck is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Optional Features:

The AguaDeck WAD-2260 (W-SS-TR) Waste Receptacle Design option (shown above) adds (2) stainless steel waste receptacles and (15") deck extensions with waste cut-outs to both sides of the lavatory deck. Cut-outs are positioned to provide ease of waste disposal into the receptacles below.

AquaDeck lavatory decks offer liquid soap dispensers as optional accessories.

AquaDeck lavatory decks can be ordered with Bullnosed or Beveled front edge styles instead of standard square-eased edges and/or 31" rim heights for juvenile use (JR).

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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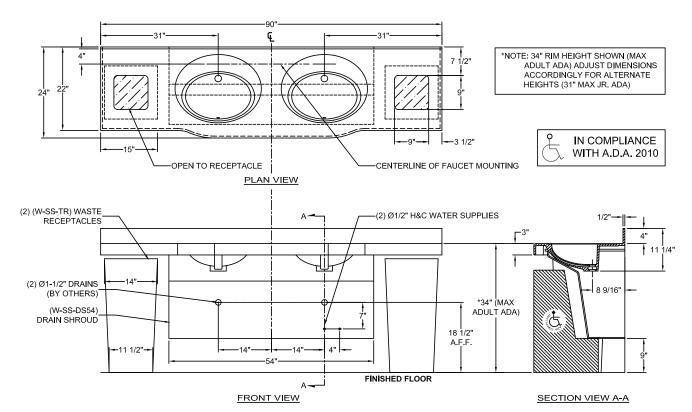
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1.) Lavato	•			Edge S	-	
☐ WAD-2	2260	AquaDeck 2260 Series, Contoured Front, Solid Surface Lavatory Deck	_	 BLN BV	Square- Bullnose Beveled	
2.) Numbe	er of Wash	Stations:	_		Boroloa	
•	2		7.) Options	s:	
				LSDM		Liquid Soap Dispensers- Deck-mounted Spout and Bottle
3.)Waste F	Receptacle	Design Option (WAD-2260 only):		JR		Junior Height, 31" Rim Height (JR. ADA Compliant)
W-SS-	TR	(2) Stainless Steel Waste Receptacles (Option adds		WADS	S-BRKT-R	Wall Mounting Bracket- Right
		(15") deck extensions to both sides of the deck)		WADS	S-BRKT-L	Wall Mounting Bracket- Left
				WADS	S-0422R	Right Side Splash
4.) Hole D	rilling Sele	ection (Faucet by Others):		WADS	S-0422L	Left Side Splash
■ NV	No Fauce	et Holes (Standard)		WAD-A	PIS-422R	Integral Right Side Apron
☐ 4CC	4" Center	rset, Ø1-1/4" Holes (Specify 2 or 3 holes:)		WAD-A	PIS-422L	Integral Left Side Apron
☐ 8CC	8" Center	rset, Ø1-1/4" Holes (Specify 2 or 3 holes:)		W-SS-E	DS54	54" Stainless Steel Modular Drain Shroud
☐ 1CC	Center S	hank, (1) Ø1-1/4" Hole		Other		
☐ SP	•	Orilling (Specify hole drilling dim.)		Other		
5.) Solid S	Surface Co	lors:				
☐ BN	Bone					
GW	Glacier V	Vhite				
GG	Grey Gra	nite				
ss	Sandstor	ne				
wg	White Gr	anite				
BG	Black Gra	anite				
■ NB	Nocturna	l Blue				
RC RC	Red Cora	al				
☐ SG	Sea Gree	en				
		5				
Approv	⁄ed ⊦or N	lanufacturing By:		Date:		Company:

Wall Type:

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Wall Thickness: .



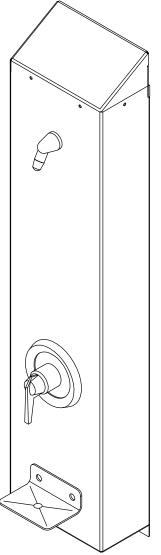
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CWSMS Series Surface Mounted Wall Shower



Recommended Specifications

Surface Mounted Wall Shower shall be: Willoughby Model No. **CWSMS** (Select from model number and options list on next page)

Shower panel shall be fabricated from 18 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Sloped top panel and bottom panel are riveted onto the wall shower.

Standard equipment shall include:

- Shower valves (from Valve Selection options list)
- Shower head (from Shower Head Selection options list)
- Z-clip mounting bracket

Anchoring shall be by Z-clip and bottom flange with anchoring hardware by others. Shower unit shall be factory assembled, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Surface Mounted Wall Shower with temp./pressure-balancing mixing valve, standard 2.5 GPM flow rate, APS adjustable vandal-resistant shower head, and surface mounted soap dish

Use the following Willoughby Model Number:
CWSMS-TPV-2.5-APS-SD



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	MODEL	NUMBER AND OPTIONS:
	1.) Base Model Number: CWSMS Surface Mounted Wall Shower	6.) Shower Head Selection: APS Adjustable Vandal-resistant Shower Head NPS Non-Adjustable Vandal-resistant Shower Head
[[2.) Valve Selection: No Valve PML1 Single Temp. Pneumatic Metering PML2 Dual Temp. Pneumatic Metering E1L1 Single Temp. Electronic (Pick Control)* E1L2 Dual Temp. Electronic (Pick Control)*	 NPS Non-Adjustable Vandal-resistant Shower Head UBJ Universal Ball Joint Shower Head LBJ Lockable Ball Joint Shower Head CSH Ligature-resistant Shower Head** LRSH Ligature-resistant Shower Head, WaterSense Labeled Insert (1.5 GPM & 2.0 GPM Flow Rate only) **
	□ PBV Pressure-Balancing Mixing Valve □ TPV Temperature/Pressure-Balancing Mixing Valve □ TPLR Ligature-resistant Temperature/Pressure-Balancing Mixing Valve □ SVC Single Temp. Compression Valve □ DVC Dual Temp. Compression Valves	7.) Other Options: TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard) TF24P Plug-in Transformer, 110VAC to 24VAC* TMV Inline Thermostatic Mixing Valve SD Surface Mounted Soap Dish RD Recessed Mounted Soap Dish
[3.) Push Button Selection: Pneumatic or Electronic Valves Only: ☐ PBH Ligature-resistant Pneumatic Push Buttons** ☐ PZPB Ligature-resistant Piezo Electronic Push Buttons*/**	PS Pipe Shroud (Specify Length):(Pipe Shroud option changes Riveted Sloped Top to Flat Top) Other Other
	4.) Flow Rates: ☐ 2.5 GPM (Standard) ☐ 2.0 GPM ☐ 1.5 GPM	*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)
,	5.) Electronic Control* (Must Use Electronic Push Button): WUSC-2200 WUSC-2400 Pneutronic	**LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained
		professionals.
	Approved For Manufacturing By: Wall Thickness: Wall Ty	Date: Company:
	Wall Trilckness Wall Ty	ре
	Sign And Sig	'Z' CLIP WALL MOUNTING BRACKET ANCHORING HARDWARE BY OTHERS)
		(APS) ADJUSTABLE SHOWER HEAD
	H FACTORY F ET AND WITHOUT 34 1/4"	FLEX HOSES TO SUPPLIES (20" LENGTH, 1/2" F.I.P.)
	WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DE DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING 34 1/4" 16 3/8"	(TPV) TEMP/PRESSURE- BALANCING MIXING VALVE
	T ALL DIMER LOUGHBY RESISIONS WITHOUT CONTRIBUTIONS WITH CONTRIBUTIONS WITH CONTRIBUTIONS WITH CONTRIBUTIONS WITH CONTRIBUTIONS WITH CONTRIBUTIONS WITH CO	2) Ø5/16" MOUNTING HOLES ANCHORING HARDWARE BY OTHERS)
	VERIL DIMENSION OF THE PROPERTY OF THE PROPERT	(SD) SURFACE MOUNTED SOAP DISH

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FRONT VIEW



CWSMS-HCA Series Handicap Accessible Surface Mounted Wall Shower



Recommended Specifications

Handicap Accessible, Surface Mounted Wall Shower shall be: Willoughby Model No. CWSMS-HCA (Select from model number and options list on next page)

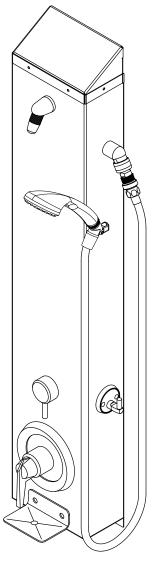
Shower panel shall be fabricated from 18 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Sloped top panel and bottom panel are riveted onto the wall shower.

Standard equipment shall include:

- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- Z-clip mounting bracket
- (FX) Hand Held Flexshower head

Anchoring shall be by Z-clip and bottom flange with anchoring hardware by others. Shower unit shall be factory assembled, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Handicap Accessible, Surface Mounted Wall Shower with temp./pressure-balancing mixing valve, diverter valve, standard 2.5 GPM flow rate, APS and FX shower heads, and surface mounted soap dish

Use the following Willoughby Model Number: CWSMS-HCA-TPV-DV-2.5-APS-FX-SD

Handicap Accessible:

The CWSMS-HCA will conform to most, but not all, ADA requirements; for complete ADA Compliance, see Model No. CWSMS-ADA-WH.

(Compliance shall be subject to the requirements of the local code authority based on installation-specific details and is the responsibility of the installer.)



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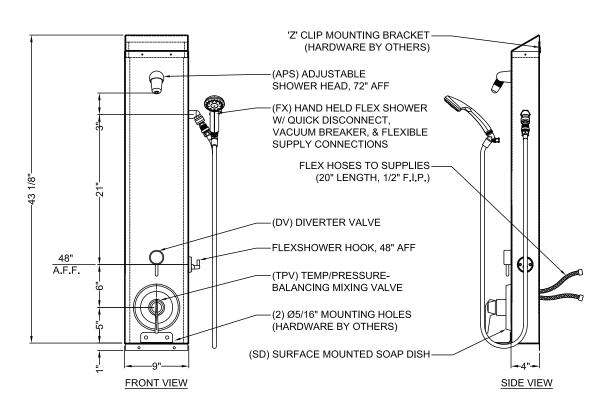
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1.) Base M	odel Numbe	er:		7.) Shower	Head Selection:
CWSMS	S-HCA	Handicap Accessible	, Surface Mounted Wall Shower	☐ APS	Adjustable Vandal-resistant Shower Head
				☐ NPS	Non-Adjustable Vandal-resistant Shower Head
2.) Valve S	election:			UBJ	Universal Ball Joint Shower Head
☐ NV	No Valve			☐ LBJ	Lockable Ball Joint Shower Head
PML1	Single Ter	mp. Pneumatic Meterir	ng	☐ CSH	Ligature-resistant Shower Head**
☐ PML2	Dual Tem	p. Pneumatic Metering		☐ FX	Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker,
☐ E1L1	Single Ter	mp. Electronic (Pick C	ontrol)*		and (1) hook) (Standard)
E1L2	Dual Tem	p. Electronic (Pick Cor	trol)*	□ LRSH	Ligature-resistant Shower Head, WaterSense Labeled Insert
☐ PBV	Pressure-	Balancing Mixing Valv	e		(1.5 GPM & 2.0 GPM Flow Rate only) **
TPV	Temperati	ure Pressure-Balancin	g Mixing Valve		*
TPLR	Ligature-r	esistant Temperature/	Pressure-Balancing Mixing Valve	8.) Other O	ptions:
SVCL			e (w/ ADA lever handle)	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC* (Standard)
DVCL	Dual Tem	p. Compression Valve	s (w/ ADA lever handle)	TF24P	Plug-in Transformer, 110VAC to 24VAC*
☐ MA2	Valve Ma	nifold Option (Pneum	atic or Electronic Valves Only):	☐ TMV	Inline Thermostatic Mixing Valve
	(See ti	he Manifold Option P	age at the end of	☐ HL	Hi-Lo (2 Hooks For Flexshower, Wall Mounted)
	Catalo	g Section C14 for fu	ther information)	☐ SLB24	24" Adjustable Slide Bar (for Flexshower, wall mounted)
				☐ SD	Surface Mounted Soap Dish
3.) Diverter	· Valve:			☐ RD	Recessed Mounted Soap Dish (Extends housing 5"
☐ DV		Diverter Valve			and will interfere with grab bar installation)
DVLR		Ligature-resistant Di	verter Valve	□ PS	Pipe Shroud (Specify Length):
☐ PML1-M	IA2	Two Single Temp. Pr	neumatic Metering Valves		(Pipe Shroud option changes Riveted Sloped Top to Flat Top)
		(Used to divert wate	flow to either upper, lower, or both	Other	
		shower heads; for us	e with Mixing Valve options above)	Other	
4.) Push B	utton Select	tion:		*(Reg. 110\	/ power through ground fault interrupter (GFCI) receptacle / breaker)
Pneumatic	or Electronic	: Valves Only:			
PBH	Ligature-r	esistant Pneumatic Pเ	sh Buttons**	**LIGATUI	RE-RESISTANT DISCLAIMER
☐ PZPB	Ligature-r	esistant Piezo Electro	nic Push Buttons*/**		act is designed to minimize ligature points. While every effort has been educe the possibility of ligature points, this product does not eliminate all
5.) Flow Ra	ites:				ture-Resistant products by Willoughby Industries are to be used in
2.5 GPN	/I (Standard)	☐ 2.0 GPM	☐ 1.5 GPM	conjunction	n with, not as a replacement for, trained professionals.
6.) Electro	nic Control*	(Must Use Electroni	: Push Button):		
WUSC-	2200	☐ WUSC-2400	☐ Pneutronic		
Approv	ed For M	/lanufacturing By	<i>I</i> :	Date:	Company:
				Bato.	
ı vvali I	nickness		Wall Type:		

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.



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W)

CWSMS-ADA Series ADA-Compliant Surface Mounted Wall Shower



Recommended Specifications

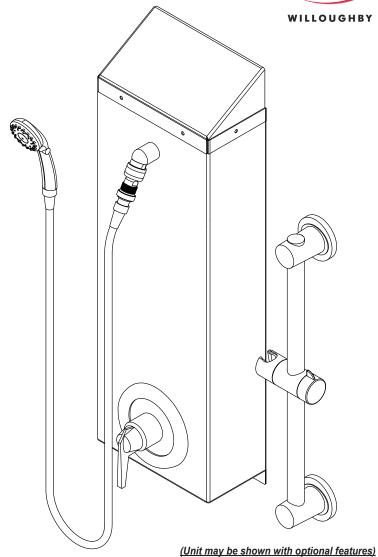
ADA-Compliant, Surface Mounted Wall Shower shall be: Willoughby Model No. **CWSMS-ADA** (Select from model number and options list on next page)

Shower panel shall be fabricated from 18 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Sloped top panel and bottom panel are riveted onto the wall shower.

Standard equipment shall include:

- Shower valves (from Valve Selection options list)
- (FX) Hand Held Flexshower head
- Z-clip mounting bracket

Anchoring shall be by Z-clip and bottom flange with anchoring hardware by others. Shower unit shall be factory assembled, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.



To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an ADA-Compliant, Surface Mounted Wall Shower with pressure-balancing valve, 2.5 GPM flow rate, standard FX Flexshower head, and 24" Flexshower slide bar

Use the following Willoughby Model Number: CWSMS-ADA-TPV-2.5-FX-SLB24

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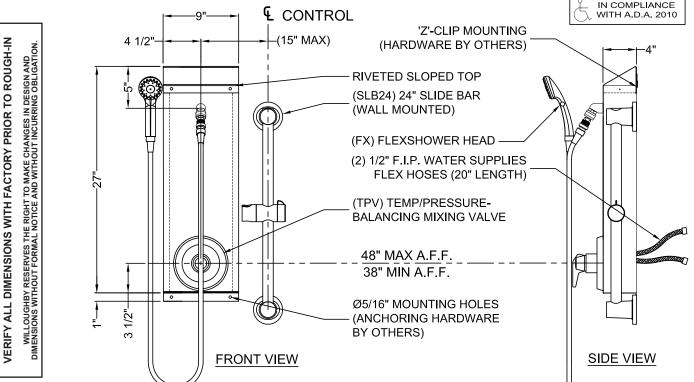
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5.) Electronic Control* (Must Use Electronic Push Button): 1.) Base Model Number: ☐ CWSMS-ADA ADA-Compliant, Surface Mounted Wall Shower ☐ WUSC-2200 ☐ WUSC-2400 Pneutronic 2.) Valve Selection: 6.) Shower Head Selection: □ NV No Valve Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker, □ FX ☐ PML1 Single Temp. Pneumatic Metering and (1) hook) ☐ PML2 Dual Temp. Pneumatic Metering Single Temp. Electronic (Pick Control)* 7.) Other Options: ■ E1L1 ■ E1L2 Dual Temp. Electronic (Pick Control)* ■ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard) PBV Pressure-Balancing Mixing Valve ☐ TF24P Plug-in Transformer, 110VAC to 24VAC* □ TPV Temperature/Pressure-Balancing Mixing Valve ■ TMV Inline Thermostatic Mixing Valve ■ TPLR Ligature-resistant Temperature/Pressure-Balancing Mixing Valve HL Hi-Lo (2 Hooks For Flexshower, Wall Mounted) 24" Adjustable Slide Bar (for Flexshower) ☐ SLB24 3.) Push Button Selection: □ PS Pipe Shroud (Specify Length): (Pipe Shroud option changes Riveted Sloped Top to Flat Top) Pneumatic or Electronic Valves Only: □ PBH Ligature-resistant Pneumatic Push Buttons** Other □ PZPB Ligature-resistant Piezo Electronic Push Buttons*/** Other 4.) Flow Rates: *(Reg. 110V power through ground fault interrupter (GFCI) receptacle / breaker) 2.5 GPM (Standard) 2.0 GPM ■ 1.5 GPM

**LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

Approved For Manufacturing By: Wall Thickness:	Wall Type:	Date: Company:	
¥ 30 4 1/2" 4 1/2"	CONTROL (15" MAX)	'Z'-CLIP MOUNTING (HARDWARE BY OTHERS)	IN COMPLIANCE WITH A.D.A. 2010



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CWSMS-ADA-WH Series Wide Housing ADA-Compliant Surface Mounted Wall Shower



Recommended Specifications

Wide Housing, ADA-Compliant, Surface Mounted Wall Shower shall be:

Willoughby Model No. **CWSMS-ADA-WH** (Select from model number and options list on next page)

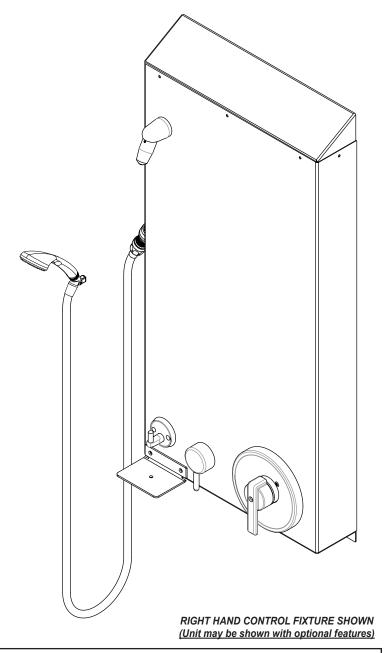
Shower panel shall be fabricated from 18 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Sloped top panel and bottom panel are riveted onto the cabinet.

Standard equipment shall include:

- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- Z-clip mounting bracket

Anchoring shall be by Z-clip and bottom flange with anchoring hardware by others. Shower unit shall be factory assembled, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).



To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Wide Housing, ADA-Compliant, Surface Mounted Wall Shower with Right Hand controls, pressure-balancing valve, diverter valve, 1.5 GPM flow rate, APS and FX shower heads, and surface mounted soap dish

Use the following Willoughby Model Number: CWSMS-ADA-WH-R-PBV-DV-1.5-APS-FX-SD



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•				
- OMON	Model Number:		8.) Shower	Head Selection:
U CWSM	IS-ADA-WH Wic	de Housing, ADA-Compliant,	☐ APS	Adjustable Vandal-resistant Shower Head
	Sur	face Mounted Wall Shower	■ NPS	Non-Adjustable Vandal-resistant Shower Head
			UBJ	Universal Ball Joint Shower Head
2.) Panel (Orientation (Must Specify):		LBJ	Lockable Ball Joint Shower Head
□ L	Left Hand Controls		☐ CSH	Ligature-resistant Shower Head**
☐ R	Right Hand Controls		☐ FX	Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker,
0))/ (0-1			and (1) hook)
3.) Valve S	No Valve		☐ LRSH	Ligature-resistant Shower Head, WaterSense Labeled Insert
□ NV □ PML1	Single Temp. Pneumatic M	Actoring		(1.5 GPM & 2.0 GPM Flow Rate only) **
PML2	Dual Temp. Pneumatic Me		☐ 2HD	Dual Fixed Shower Heads (replaces (FX) Flexshower head w/ second of the selected fixed Shower Head)
E1L1	Single Temp. Electronic (P			nead w/ Second of the Selected fixed Shower Head)
☐ E1L2	Dual Temp. Electronic (Pic	,	9 \ Ontiona	I Shower Seat:
☐ PBV	Pressure-Balancing Mixing	•	☐ FSS	Stainless Steel Folding Shower Seat
TPV	Temp/Pressure-Balancing		☐ PFSS	Padded Stainless Steel Folding Shower Seat
TPLR	Ligature-resistant Tempera	ature/Pressure-Balancing Mixing Valve	PHSS	Phenolic Folding Shower Seat
☐ SVCL	Single Temp. Compression	n Valve (w/ ADA lever handle)	_	· ·
DVCL	Dual Temp. Compression '	Valves (w/ ADA lever handle)	10.) Other C	Options:
☐ MA2		Pneumatic or Electronic Valves Only):	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC* (Standard)
		tion Page at the end of	☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*
	Catalog Section <u>C14</u> i	for further information)	■ TMV	Inline Thermostatic Mixing Valve
4 \ D!	an Value		☐ HL	Hi-Lo (2 Hooks For Flexshower, Wall Mounted)
4.) Diverte	er Valve: Diverter Valve		SLB24	24" Adjustable Slide Bar (for Flexshower)
DV DVLR		ant Diverter Valve**	☐ SD	Surface Mounted Soap Dish
☐ PML1-I	•	np. Pneumatic Metering Valves	☐ RD	Recessed Mounted Soap Dish (Option increases the cabinet width 7" to
- I IVIL I-I	•	water flow to either upper, lower, or both	☐ PS	accommodate the soap dish while maintaining ADA compliance) Pipe Shroud (Specify Length):
	,	for use with Mixing Valve options above)	_ P3	(Pipe Shroud option changes Riveted Sloped Top to Flat Top)
	,		Other	(i the difficult changes reveted dioped top to that top)
5.) Push E	Button Selection:		_ Outer	
Pneumatic	or Electronic Valves Only:		*(Reg. 110V	power through ground fault interrupter (GFCI) receptacle / breaker)
□ PBH	Ligature-resistant Pneun	natic Push Buttons**	(****4*******	F
□ PZPB	Ligature-resistant Piezo	Electronic Push Buttons*/**	**LIGATUF	RE-RESISTANT DISCLAIMER
_	Ü			ct is designed to minimize ligature points. While every effort has been
6.) Flow R	Rates:		•	duce the possibility of ligature points, this product does not eliminate all
■ 2.5 GP	PM (Standard) 🔲 2.0 GPM	☐ 1.5 GPM		ure-Resistant products by Willoughby Industries are to be used in
			conjunction	with, not as a replacement for, trained professionals.
•	onic Control* (Must Use Elec	•		
WUSC-	-2200 U WUSC-2400) Pneutronic		
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NI-IN ION.	hickness:	Wall Type: RI RI RI RI CONTROL •	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS	RIVETED SLOPED TOP 2"-CLIP MOUNTING (ANCHORING HARDWARE
NI-IN ION.	hickness:	Wall Type: RI RI RI RI CONTROL •	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS	RIVETED SLOPED TOP ———————————————————————————————————
NI-IN ION.	hickness:	Wall Type: RI RI RI RI CONTROL •	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS	RIVETED SLOPED TOP 'Z'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE
NI-IN ION.	hickness:	Wall Type:	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS	RIVETED SLOPED TOP 'Z'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE
NI-IN ION.	hickness:	Wall Type: RI RI RI RI CONTROL •	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS	RIVETED SLOPED TOP 2'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE SHOWER HEAD
NI-IN ION.	hickness:	Wall Type:	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS	RIVETED SLOPED TOP 'Z'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE
NI-IN ION.	hickness:	Wall Type:	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS	RIVETED SLOPED TOP 2'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE SHOWER HEAD (FX) HAND HELD
NI-IN ION.	hickness:	Wall Type:	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS	RIVETED SLOPED TOP 2'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE SHOWER HEAD (FX) HAND HELD
NI-IN ION.	hickness:	Wall Type:	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS	RIVETED SLOPED TOP 2'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE SHOWER HEAD (FX) HAND HELD FLEXSHOWER HEAD
NI-IN ION.	hickness:	Wall Type:	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS	RIVETED SLOPED TOP 'Z'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE SHOWER HEAD (FX) HAND HELD FLEXSHOWER HEAD FLEXSHOWER HOOK
NI-IN ION.	hickness:	Wall Type:	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS	RIVETED SLOPED TOP 'Z'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE SHOWER HEAD (FX) HAND HELD FLEXSHOWER HOOK
NI-IN ION.	hickness:	Wall Type:	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS SYMMETRICALLY OPPOSITE	RIVETED SLOPED TOP 2'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE SHOWER HEAD (FX) HAND HELD FLEXSHOWER HEAD FLEXSHOWER HOOK (DV) DIVERTER VALVE (STANDARD)
NI-IN ION.	hickness:	Wall Type:	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS	RIVETED SLOPED TOP 'Z'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE SHOWER HEAD (FX) HAND HELD FLEXSHOWER HEAD FLEXSHOWER HOOK
NI-IN ION.	hickness:	Wall Type:	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS SYMMETRICALLY OPPOSITE	RIVETED SLOPED TOP 'Z'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE SHOWER HEAD (FX) HAND HELD FLEXSHOWER HEAD FLEXSHOWER HOOK (DV) DIVERTER VALVE (STANDARD) (PBV) PRESSURE-BALANCING
NI-IN ION.	hickness:	Wall Type:	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS SYMMETRICALLY OPPOSITE	RIVETED SLOPED TOP 'Z'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE SHOWER HEAD (FX) HAND HELD FLEXSHOWER HEAD FLEXSHOWER HEAD (DV) DIVERTER VALVE (STANDARD) (PBV) PRESSURE-BALANCING MIXING VALVE (2) 1/2" F.I.P. WATER SUPPLIES
NI-IN ION.	hickness:	Wall Type: IN COMPLIANCE WITH A.D.A. 2010 CONTROL L 2" AFF 72" AFF 48"	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS SYMMETRICALLY OPPOSITE	RIVETED SLOPED TOP 2'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE SHOWER HEAD (FX) HAND HELD FLEXSHOWER HEAD (FX) HOOK (DV) DIVERTER VALVE (STANDARD) (PBV) PRESSURE-BALANCING MIXING VALVE
NI-IN ION.	hickness:	Wall Type: IN COMPLIANCE WITH A.D.A. 2010 CONTROL L 2" AFF AFF AFF AFF	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS SYMMETRICALLY OPPOSITE	RIVETED SLOPED TOP 'Z'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE SHOWER HEAD (FX) HAND HELD FLEXSHOWER HEAD FLEXSHOWER HEAD (DV) DIVERTER VALVE (STANDARD) (PBV) PRESSURE-BALANCING MIXING VALVE (2) 1/2" F.I.P. WATER SUPPLIES FLEX HOSES (20" LENGTH) - 05/16" MOUNTING HOLES
NI-IN ION.	hickness:	Wall Type: IN COMPLIANCE WITH A.D.A. 2010 CONTROL L 2" AFF AFF AFF AFF	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS SYMMETRICALLY OPPOSITE	RIVETED SLOPED TOP 2'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE SHOWER HEAD (FX) HAND HELD FLEXSHOWER HEAD (FX) HON HEAD (PBV) PRESSURE-BALANCING MIXING VALVE (2) 1/2" F.I.P. WATER SUPPLIES FLEX HOSES (20" LENGTH) Ø5/16" MOUNTING HOLES (ANCHORING HARDWARE
H-IN TION.	hickness:	Wall Type: IN COMPLIANCE WITH A.D.A. 2010 CONTROL 2" 15" 72" AFF AFF	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS SYMMETRICALLY OPPOSITE	RIVETED SLOPED TOP 'Z'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE SHOWER HEAD (FX) HAND HELD FLEXSHOWER HEAD (FX) HAND HELD FLEXSHOWER HEAD (DV) DIVERTER VALVE (STANDARD) (PBV) PRESSURE-BALANCING MIXING VALVE (2) 1/2" F.I.P. WATER SUPPLIES FLEX HOSES (20" LENGTH) Ø5/16" MOUNTING HOLES (ANCHORING HARDWARE BY OTHERS)
NI-IN ION.	hickness:	Wall Type: IN COMPLIANCE WITH A.D.A. 2010 CONTROL L 2" AFF AFF AFF AFF AFF AFF AFF	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS SYMMETRICALLY OPPOSITE	RIVETED SLOPED TOP 2'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE SHOWER HEAD (FX) HAND HELD FLEXSHOWER HEAD (FX) HAND HELD FLEXSHOWER HOOK (DV) DIVERTER VALVE (STANDARD) (PBV) PRESSURE-BALANCING MIXING VALVE (2) 1/2" F.I.P. WATER SUPPLIES FLEX HOSES (20" LENGTH) 05/16" MOUNTING HOLES (ANCHORING HARDWARE BY OTHERS) (GB_) ADA GRAB BAR,
NI-IN ION.	hickness:	Wall Type: IN COMPLIANCE WITH A.D.A. 2010 CONTROL L 2" AFF AFF AFF AFF	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS SYMMETRICALLY OPPOSITE	RIVETED SLOPED TOP 'Z'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE SHOWER HEAD (FX) HAND HELD FLEXSHOWER HEAD (FX) HAND HELD FLEXSHOWER HEAD (DV) DIVERTER VALVE (STANDARD) (PBV) PRESSURE-BALANCING MIXING VALVE (2) 1/2" F.I.P. WATER SUPPLIES FLEX HOSES (20" LENGTH) Ø5/16" MOUNTING HOLES (ANCHORING HARDWARE BY OTHERS)
NI-IN ION.	hickness:	Wall Type: IN COMPLIANCE WITH A.D.A. 2010 CONTROL L 2" AFF AFF AFF AFF AFF AFF AFF	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS SYMMETRICALLY OPPOSITE	RIVETED SLOPED TOP 2'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE SHOWER HEAD (FX) HAND HELD FLEXSHOWER HEAD FLEXSHOWER HEAD (DV) DIVERTER VALVE (STANDARD) (PBV) PRESSURE-BALANCING MIXING VALVE (2) 1/2" F.I.P. WATER SUPPLIES FLEX HOSES (20" LENGTH) Ø5/16" MOUNTING HOLES (ANCHORING HARDWARE BY OTHERS) (GB_) ADA GRAB BAR, SHOWN 33" AFF (REF. ONLY, AVAILABLE OPTION)
	hickness:	Wall Type: IN COMPLIANCE WITH A.D.A. 2010 CONTROL L 2" AFF AFF AFF AFF AFF AFF AFF	IGHT HAND CONTRO FIXTURE SHOWN (LEFT HAND FIXTURE IS SYMMETRICALLY OPPOSITE	RIVETED SLOPED TOP 'Z'-CLIP MOUNTING (ANCHORING HARDWARE BY OTHERS) (APS) ADJUSTABLE SHOWER HEAD (FX) HAND HELD FLEXSHOWER HEAD FLEXSHOWER HEAD (PV) DIVERTER VALVE (STANDARD) (PBV) PRESSURE-BALANCING MIXING VALVE (2) 1/2" F.I.P. WATER SUPPLIES FLEX HOSES (20" LENGTH) Ø5/16" MOUNTING HOLES (ANCHORING HARDWARE BY OTHERS) (GB_) ADA GRAB BAR, SHOWN 33" AFF (REF. ONLY,

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C14-8

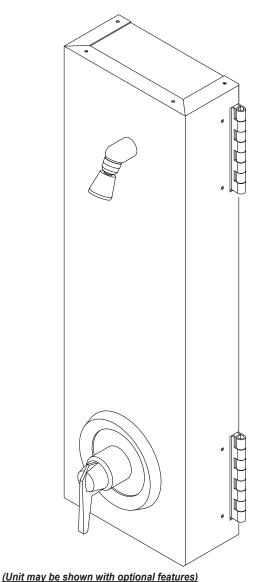
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MADE IN THE U.S.A.



CWSMSH Series Hinged Surface Mounted Wall Shower



Recommended Specifications

Hinged Surface Mounted Wall Shower shall be: Willoughby Model No. CWSMSH (Select from model number and options list on next page)

Hinged shower panel shall be fabricated from 18 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Top and bottom panels are riveted on to shower panel.

Standard equipment shall include:

- Shower valves (from Valve Selection options list)
- Shower head (from Shower Head Selection options list)

Anchoring shall be by (2) 1" opening hinges with Ø5/16" mounting holes and (2) Ø5/16" mounting tabs (anchoring hardware by others). Shower unit shall be factory assembled, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Hinged Surface Mounted Wall Shower with temp./pressure-balancing mixing valve, standard 2.5 GPM flow rate, and standard UBJ universal ball joint shower head

Use the following Willoughby Model Number:
CWSMSH-TPV-2.5-UBJ

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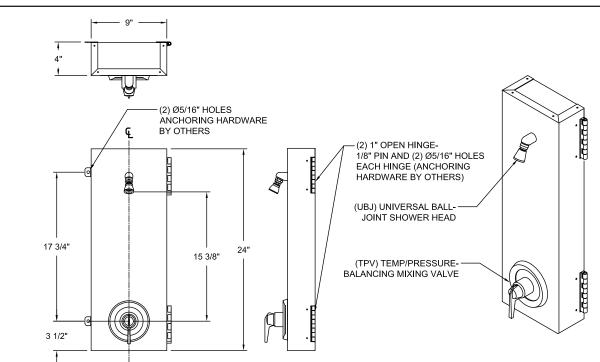
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6.) Shower Head Selection: 1.) Base Model Number: ☐ APS ☐ CWSMSH Hinged Surface Mounted Wall Shower Adjustable Vandal-resistant Shower Head ■ NPS Non-Adjustable Vandal-resistant Shower Head 2.) Valve Selection: UBJ Universal Ball Joint Shower Head □ NV No Valve ☐ LBJ Lockable Ball Joint Shower Head ☐ PML1 Single Temp. Pneumatic Metering □ CSH Ligature-resistant Shower Head** ☐ PML2 ☐ LRSH Ligature-resistant Shower Head, WaterSense Labeled Insert Dual Temp. Pneumatic Metering ■ E1L1 Single Temp. Electronic (Pick Control)* (1.5 GPM & 2.0 GPM Flow Rate only) ** ☐ E1L2 Dual Temp. Electronic (Pick Control)* □ PBV Pressure-Balancing Mixing Valve 7.) Other Options: □ TPV Temperature/Pressure-Balancing Mixing Valve ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard) Single Temp. Compression Valve Plug-in Transformer, 110VAC to 24VAC* SVC ☐ TF24P □ DVC Dual Temp. Compression Valves ☐ TMV Inline Thermostatic Mixing Valve ☐ SD Surface Mounted Soap Dish (Wall Mounted) 3.) Push Button Selection: RSD2 Recessed Soap Dish (In-Wall Mounted) Pneumatic or Electronic Valves Only: □ PS Pipe Shroud (Specify Length): Ligature-resistant Pneumatic Push Buttons** Ligature-resistant Piezo Electronic Push Buttons*/** □ PZPB □ Other ☐ Other 4.) Flow Rates: 2.5 GPM (Standard) ■ 2.0 GPM ☐ 1.5 GPM *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **LIGATURE-RESISTANT DISCLAIMER 5.) Electronic Control* (Must Use Electronic Push Button): ☐ WUSC-2200 ☐ WUSC-2400 ☐ Pneutronic This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____

eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

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CWSMSH-HCA Series Handicap Accessible Hinged Surface Mounted Wall Shower



Recommended Specifications

Handicap Accessible, Hinged Surface Mounted Wall Shower shall be: Willoughby Model No. **CWSMSH-HCA** (Select from model number and options list on next page)

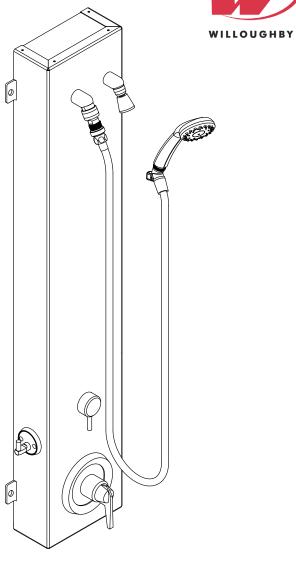
Hinged shower panel shall be fabricated from 18 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Top and bottom panels are riveted on to shower panel.

Standard equipment shall include:

- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)

Anchoring shall be by (3) 1" opening hinges with \emptyset 5/16" mounting holes and (2) \emptyset 5/16" mounting tabs (anchoring hardware by others). Shower unit shall be factory assembled, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Handicap Accessible, Hinged Surface Mounted Wall Shower with temp./ pressure-balancing mixing valve, diverter valve, standard 2.5 GPM flow rate, UBJ universal ball joint and FX Flexshower shower heads

Use the following Willoughby Model Number: CWSMSH-HCA-TPV-DV-2.5-UBJ-FX

Handicap Accessible:

The CWSMSH-HCA will conform to most, but not all, ADA requirements; for complete ADA Compliance, see Model No. CWSMS-ADA-WH (non-hinged). (Compliance shall be subject to the requirements of the local code authority based on installation-specific details and is the responsibility of the installer.)



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MODEL NUMB	ER AND OPTIONS:
1.) Base Model Number: CWSMSH-HCA Handicap Accessible, Hinged Surface Mounted Wall Shower	7.) Shower Head Selection: APS Adjustable Vandal-resistant Shower Head NPS Non-Adjustable Vandal-resistant Shower Head UBJ Universal Ball Joint Shower Head
2.) Valve Selection: NV No Valve PML1 Single Temp. Pneumatic Metering PML2 Dual Temp. Pneumatic Metering E1L1 Single Temp. Electronic (Pick Control)* E1L2 Dual Temp. Electronic (Pick Control)* PBV Pressure-Balancing Mixing Valve TPV Temperature/Pressure-Balancing Mixing Valve	 □ LBJ Lockable Ball Joint Shower Head □ CSH Ligature-resistant Shower Head** □ FX Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker, and (1) hook) □ LRSH Ligature-resistant Shower Head, WaterSense Labeled Insert (1.5 GPM & 2.0 GPM Flow Rate only) ** □ 2HD Dual Fixed Shower Heads (replaces (FX) Flexshower head w/ second of the selected fixed Shower Head)
 SVCL Single Temp. Compression Valve (w/ ADA lever handle) DVCL Dual Temp. Compression Valves (w/ ADA lever handle) MA2 Valve Manifold Option (Pneumatic or Electronic Valves Only): (See the Manifold Option Page at the end of Catalog Section C14 for further information) 3.) Diverter Valve: DV Diverter Valve DVLR Ligature-resistant Diverter Valve** PML1-MA2 Two Single Temp. Pneumatic Metering Valves (Used to divert water flow to either upper, lower, or both shower heads; for use with Mixing Valve options above) 	8.) Other Options: TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard) TF24P Plug-in Transformer, 110VAC to 24VAC* TMV Inline Thermostatic Mixing Valve HL Hi-Lo (2 Hooks For Flexshower, Wall Mounted) SLB24 24* Adjustable Slide Bar (for Flexshower) SD Surface Mounted Soap Dish (Wall Mounted) RSD2 Recessed Soap Dish (In-Wall Mounted) PS Pipe Shroud (Specify Length):
4.) Push Button Selection: Pneumatic or Electronic Valves Only: PBH Ligature-resistant Pneumatic Push Buttons** PZPB Ligature-resistant Piezo Electronic Push Buttons*/** 5.) Flow Rates: 2.5 GPM (Standard) 2.0 GPM 1.5 GPM 6.) Electronic Control* (Must Use Electronic Push Button): WUSC-2200 WUSC-2400 Pneutronic	*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) **LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.
Approved For Manufacturing By: Wall Type:	
WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION. 37 5/8" 32 5/8" 22 13/16" 22 13/16"	(2) Ø5/16" HOLES (ANCHORING HARDWARE BY OTHERS) (3) 1" OPEN HINGES W/ 1/8" PIN (ANCHORING HARDWARE BY OTHERS) (FX) HAND HELD FLEXSHOWER HEAD (DV) DIVERTER VALVE FLEXSHOWER HOOK (PBV) PRESSURE-BALANCING MIXING VALVE

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SIDE VIEW

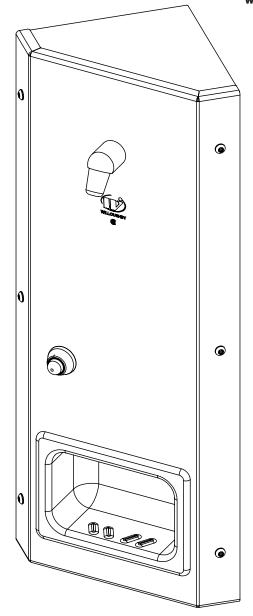
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3 1/4"-



CWKS Series Surface Mounted Corner Wall Shower



Recommended Specifications

Surface Mounted Corner Wall Shower shall be: Willoughby Model No. **CWKS** (Select from model number and options list on next page)

Shower cabinet shall be fabricated from 16 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Wall bracket shall be fabricated from 16 gauge, Type 304 stainless steel.

Standard equipment shall include:

- Shower valves (from Valve Selection options list)
- Shower head (from Shower Head Selection options list)
- Mounting bracket

Shower face plate shall attach to mounting bracket with vandal resistant stainless steel security screws. Mounting bracket anchoring hardware by others. Unit requires no chase area for installation and maintenance.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page. Example: To specify a Surface Mounted Corner Wall Shower with single-temp pneumatic valving, standard ligature-resistant pnuematic push button, standard 2.5 GPM flow rate, NPS non-adjustable vandal-resistant shower head, and recessed soap dish

Use the following Willoughby Model Number: CWKS-PML1-PBH-2.5-NPS-RD



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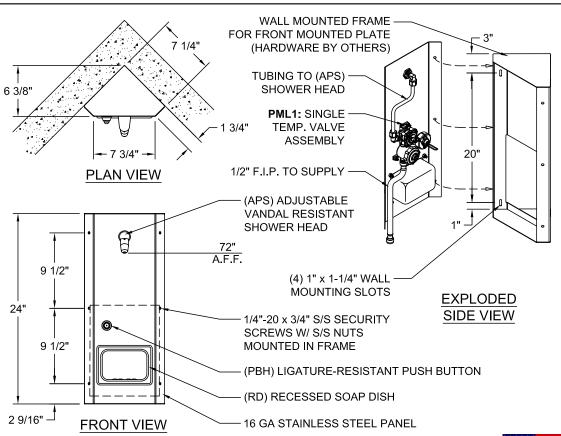
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CWKS	1.) Base M	lodel Number:	6.) Shower Head Selection:
2.) Valve Selection:	•		,
NV No Valve PML1 Single Temp. Pneumatic Metering CSH Ligature-resistant Shower Head CSH Ligature-resistant Shower Head, WaterSense Labeled Insert (1.5 GPM & 2.0 GPM Flow Rate only) ** (1.5 GPM Flow Rate o			■ NPS Non-Adjustable Vandal-resistant Shower Head
PML1 Single Temp. Pneumatic Metering CSH Ligature-resistant Shower Head** Ligature-resistant Shower Head. WaterSense Labeled Insert C1.5 GPM & 2.0 GPM Flow Rate only) ** CSH Ligature-resistant Shower Head, WaterSense Labeled Insert C1.5 GPM & 2.0 GPM Flow Rate only) ** CSH Ligature-resistant Shower Head, WaterSense Labeled Insert C1.5 GPM & 2.0 GPM Flow Rate only) ** CSH Ligature-resistant Shower Head, WaterSense Labeled Insert C1.5 GPM & 2.0 GPM Flow Rate only) ** CSH CSPM & 2.0 GPM Flow Rate only) ** CSM CSPM & 2.0 GPM Flow Rate only) ** CSM CSPM & 2.0 GPM Flow Rate only) ** CSM CSPM & 2.0 GPM Flow Rate only) ** CSM CSPM & 2.0 GPM Flow Rate only) ** CSM CSPM & 2.0 GPM Flow Rate only) ** CSM CSPM & 2.0 GPM Flow Rate only) ** CSM CSPM & 2.0 GPM Flow Rate only) ** CSM CSPM & 2.0 GPM Flow Rate only) ** CSM CSPM & 2.0 GPM Flow Rate only) ** CSM CSPM & 2.0 GPM Flow Rate only) ** CSM CSPM & CSPM Flow Rate only) ** CSM CSPM & CSPM CSPM Flow Rate only) ** CSM CSPM & CSPM Flow Rate only) ** CSM CSPM & CSPM Flow Rate only) ** CSM CS	2.) Valve S	Selection:	☐ UBJ Universal Ball Joint Shower Head
PML2	■ NV	No Valve	☐ LBJ Lockable Ball Joint Shower Head
E1L1 Single Temp. Electronic (Pick Control)*	☐ PML1	Single Temp. Pneumatic Metering	☐ CSH Ligature-resistant Shower Head**
E1L2	☐ PML2	Dual Temp. Pneumatic Metering	LRSH Ligature-resistant Shower Head, WaterSense Labeled Insert
□ PBV Pressure-Balancing Mixing Valve 7.) Other Options: □ TPV Temperature/Pressure-Balancing Mixing Valve □ TP24H Hard-wired Transformer, 110VAC to 24VAC* (Standard) □ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve** □ TP24P Plug-in Transformer, 110VAC to 24VAC* □ SVC Single Temp. Compression Valves □ TMV Inline Thermostatic Mixing Valve □ DVC Dual Temp. Compression Valves □ SD Surface Mounted Soap Dish □ RD Recessed Mounted Soap Dish □ RD Recessed Mounted Soap Dish □ PS Pipe Shroud (Specify Length): □ PS Pipe Shroud (Specify Length): □ Other □ Other □ PZPB Ligature-resistant Piezo Electronic Push Buttons*** □ Other □ 2.5 GPM (Standard) □ 2.0 GPM □ 1.5 GPM **LIGATURE-RESISTANT DISCLAIMER 5.) Electronic Control* (Must Use Electronic Push Button): □ Pneutronic □ WUSC-2200 □ WUSC-2400 □ Pneutronic This product is designed to minimize ligature points, this product does eliminate all risks. Ligature-Resistant products by Willoughby Industries to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: Date: Company:	□ E1L1	Single Temp. Electronic (Pick Control)*	(1.5 GPM & 2.0 GPM Flow Rate only) **
☐ TPV Temperature/Pressure-Balancing Mixing Valve ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard) ☐ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve** ☐ TF24P Plug-in Transformer, 110VAC to 24VAC* (Standard) ☐ SVC SvD		Dual Temp. Electronic (Pick Control)*	
☐ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve** ☐ TF24P Plug-in Transformer, 110VAC to 24VAC* ☐ SVC Single Temp. Compression Valve ☐ TMV Inline Thermostatic Mixing Valve ☐ DVC Dual Temp. Compression Valves ☐ SD Surface Mounted Soap Dish ☐ RD Recessed Mounted Soap Dish ☐ RD Recessed Mounted Soap Dish ☐ PPS Pipe Shroud (Specify Length): ☐ PPSP B Ligature-resistant Pneumatic Push Buttons*** ☐ Other ☐ Other ☐ Other ☐ Yellow Rates: *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) ☐ 2.5 GPM (Standard) ☐ 2.0 GPM ☐ 1.5 GPM **LIGATURE-RESISTANT DISCLAIMER 5.) Electronic Control* (Must Use Electronic Push Button): ☐ Pneutronic This product is designed to minimize ligature points. While every effort heen made to reduce the possibility of ligature points, this product does eliminate all risks. Ligature-Resistant products by Willoughby Industries to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: Date: Company:		Pressure-Balancing Mixing Valve	7.) Other Options:
SVC Single Temp. Compression Valve	_		☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
DVC Dual Temp. Compression Valves SD Surface Mounted Soap Dish RD Recessed Mounted Soap Dish PS Pipe Shroud (Specify Length): PRH Ligature-resistant Pneumatic Push Buttons** Other PZPB Ligature-resistant Piezo Electronic Push Buttons*/** 4.) Flow Rates: 2.5 GPM (Standard) 2.0 GPM 1.5 GPM **LIGATURE-RESISTANT DISCLAIMER 5.) Electronic Control* (Must Use Electronic Push Button): WUSC-2200 WUSC-2400 Pneutronic Pneumatic or Electronic Valves Only: Other **LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort heen made to reduce the possibility of ligature points, this product does eliminate all risks. Ligature-Resistant products by Willoughby Industries to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: Date: Company:	_		_ ,
3.) Push Button Selection: Pneumatic or Electronic Valves Only: PBH Ligature-resistant Pneumatic Push Buttons** PZPB Ligature-resistant Piezo Electronic Push Buttons*/* 4.) Flow Rates: 2.5 GPM (Standard)	_		-
3.) Push Button Selection: Pronumatic or Electronic Valves Only: PBH Ligature-resistant Pneumatic Push Buttons** PEPB Ligature-resistant Piezo Electronic Push Buttons*/** Other 4.) Flow Rates: 2.5 GPM (Standard) NUSC-2200 NUSC-2200 NUSC-2400 Pipe Shroud (Specify Length): Pape Shroud (Specify Length): Pape Shroud (Specify Length): Pape Shroud (Specify Length): Pape Shroud (Specify Length): Pother Shroud (Specify Length): Pape Shroud (Specif Length): Pape Shr	DVC	Dual Temp. Compression Valves	-
Pneumatic or Electronic Valves Only: PBH			- '
□ PBH Ligature-resistant Pneumatic Push Buttons** □ Other □ PZPB Ligature-resistant Piezo Electronic Push Buttons*/** □ Other 4.) Flow Rates: *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) □ 2.5 GPM (Standard) □ 2.0 GPM □ 1.5 GPM ***LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort heen made to reduce the possibility of ligature points, this product does eliminate all risks. Ligature-Resistant products by Willoughby Industries to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: Date: Company:	•		PS Pipe Shroud (Specify Length):
□ PZPB Ligature-resistant Piezo Electronic Push Buttons*/** 4.) Flow Rates: □ 2.5 GPM (Standard) □ 2.0 GPM □ 1.5 GPM **LIGATURE-RESISTANT DISCLAIMER 5.) Electronic Control* (Must Use Electronic Push Button): □ WUSC-2200 □ WUSC-2400 □ Pneutronic □ PROPE Ligature-resistant Piezo Electronic Push Button): □ WUSC-25 GPM (Standard) □ 2.0 GPM □ 1.5 GPM **LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort he been made to reduce the possibility of ligature points, this product does eliminate all risks. Ligature-Resistant products by Willoughby Industries to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: □ Date: □ Company: □		· · · · · · · · · · · · · · · · · · ·	
**(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) 2.5 GPM (Standard)	_		
2.5 GPM (Standard)	☐ PZPB	Ligature-resistant Piezo Electronic Push Buttons*/**	Other
**LIGATURE-RESISTANT DISCLAIMER 5.) Electronic Control* (Must Use Electronic Push Button): WUSC-2200 WUSC-2400 Pneutronic P	4.) Flow R	ates:	*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)
5.) Electronic Control* (Must Use Electronic Push Button): WUSC-2200 WUSC-2400 Pneutronic Pneutronic This product is designed to minimize ligature points. While every effort heen made to reduce the possibility of ligature points, this product does eliminate all risks. Ligature-Resistant products by Willoughby Industries to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: Date: Company:	☐ 2.5 GPI	M (Standard) 🔲 2.0 GPM 🔲 1.5 GPM	
□ WUSC-2200 □ WUSC-2400 □ Pneutronic been made to reduce the possibility of ligature points, this product does eliminate all risks. Ligature-Resistant products by Willoughby Industries to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: □ Date: □ Company: □			**LIGATURE-RESISTANT DISCLAIMER
eliminate all risks. Ligature-Resistant products by Willoughby Industries to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: Date: Company:	5.) Electro	onic Control* (Must Use Electronic Push Button):	This product is designed to minimize ligature points. While every effort ha
to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: Date: Company:	WUSC-	-2200 WUSC-2400 Pneutronic	been made to reduce the possibility of ligature points, this product does r
Approved For Manufacturing By: Date: Company:			eliminate all risks. Ligature-Resistant products by Willoughby Industries a
Approved For Manufacturing By: Date: Company:			to be used in conjunction with, not as a replacement for, trained
			professionals.
	Approv	ed For Manufacturing By:	Date: Company:
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CWKS-HCA Series Handicap Accessible Surface Mounted Corner Wall Shower



Recommended Specifications

Handicap Accessible, Surface Mounted Corner Wall Shower shall be: Willoughby Model No. **CWKS-HCA** (Select from model number and options list on next page)

Shower cabinet shall be fabricated from 16 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Wall bracket shall be fabricated from 16 gauge, Type 304 stainless steel.

Standard equipment shall include:

- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- Mounting bracket

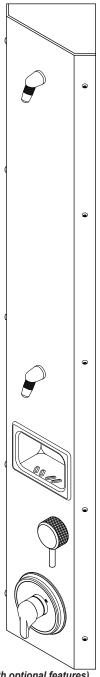
Shower face plate shall attach to mounting bracket with vandal resistant stainless steel security screws. Mounting bracket anchoring hardware by others. Unit requires no chase area for installation and maintenance.

Handicap Accessible:

The CWKS-HCA corner shower will conform to most, but not all, ADA requirements.

(Compliance shall be subject to the requirements of the local code authority based on installation-specific details and is the responsibility of the installer.)

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Handicap Accessible, Surface Mounted Corner Wall Shower with temp./ pressure-balancing mixing valve, diverter valve, standard 2.5 GPM flow rate, (2) APS adjustable vandal-resistant shower heads, and recessed soap dish

Use the following Willoughby Model Number: CWKS-HCA-TPV-DV-2.5-APS-2HD-RD



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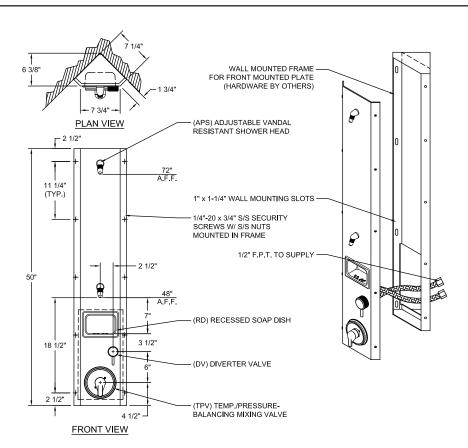
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1.) Base Model Number:			7.) Shower Head Selection:			
☐ CWKS-H	CA	Handicap Accessible, Surface Mounted Corner Wall Shower	☐ APS ☐ NPS	Adjustable Vandal-resistant Shower Head Non-Adjustable Vandal-resistant Shower Head		
			UBJ	Universal Ball Joint Shower Head		
2.) Valve Se	lection:		LBJ	Lockable Ball Joint Shower Head		
■ NV	No Valve		☐ CSH	Ligature-resistant Shower Head**		
■ PML1	Single Ter	mp. Pneumatic Metering	☐ FX	Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker,		
PML2	Dual Tem	p. Pneumatic Metering		and (1) hook)		
■ E1L1	Single Ter	mp. Electronic (Pick Control)*	LRSH	Ligature-resistant Shower Head, WaterSense Labeled Insert		
■ E1L2	Dual Tem	p. Electronic (Pick Control)*		(1.5 GPM & 2.0 GPM Flow Rate only) **		
□ PBV	Pressure-	Balancing Mixing Valve	☐ 2HD	Dual Fixed Shower Heads (replaces (FX) Flexshower		
■ TPV	Temperate	ure/Pressure-Balancing Mixing Valve		head w/ second of the selected fixed Shower Head)		
■ TPLR	Ligature-r	esistant Temp/Pressure-balancing Mixing Valve**				
■ SVCL			8.) Other Options:			
□ DVCL	Dual Tem	p. Compression Valves (w/ ADA lever handle)	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC* (Standard)		
☐ MA2	Valve Ma	nifold Option (Pneumatic or Electronic Valves Only):	☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*		
	(See to	he Manifold Option Page at the end of	☐ TMV	Inline Thermostatic Mixing Valve		
Catalog Section C14 for further information)			□ HL	Hi-Lo (2 Hooks For Flexshower, Wall Mounted)		
		· /	☐ SLB24	24" Adjustable Slide Bar (for Flexshower, Wall Mounted)		
3.) Diverter	Valve:		☐ SD	Surface Mounted Soap Dish		
☐ DV		Diverter Valve	☐ RD	Recessed Mounted Soap Dish		
DVLR		Ligature-resistant Diverter Valve	□ PS	Pipe Shroud (Specify Length):		
PML1-MA	12	Two Single Temp. Pneumatic Metering Valves	_	1 (1) 3 /		
_		(Used to divert water flow to either upper, lower, or both	Other			
		shower heads; for use with Mixing Valve options above)				
		g	*(Reg. 110	V power through ground fault interrupter (GFCI) receptacle / breaker)		
4.) Push But	tton Select	ion:	(4	·		
		Valves Only:	**LIGATU	RE-RESISTANT DISCLAIMER		
☐ PBH				ct is designed to minimize ligature points. While every effort has been made		
☐ PZPB	-	esistant Piezo Electronic Push Buttons*/**		he possibility of ligature points, this product does not eliminate all risks.		
	Ligataro i	oolotant 1 1020 2.100tt onto 1 don Dattono 1		esistant products by Willoughby Industries are to be used in conjunction		
5.) Flow Rat	es:		•	s a replacement for, trained professionals.		
☐ 2.5 GPM (Standard) ☐ 2.0 GPM ☐ 1.5 GPM			with, not a	з а теріасетнент юї, пашес ріогеззіонаіз.		
		(Must Use Electronic Push Button):				
WUSC-22	200	☐ WUSC-2400 ☐ Pneutronic				
Annrow	ed For N	/lanufacturing By:	Date	: Company:		
Wall Th			Date	Oompany		

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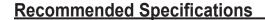


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CWDS Series Two Station Surface Mounted Wall Shower



Two Station, Surface Mounted Wall Shower shall be: Willoughby Model No. **CWDS** (Select from model number and options list on next page)

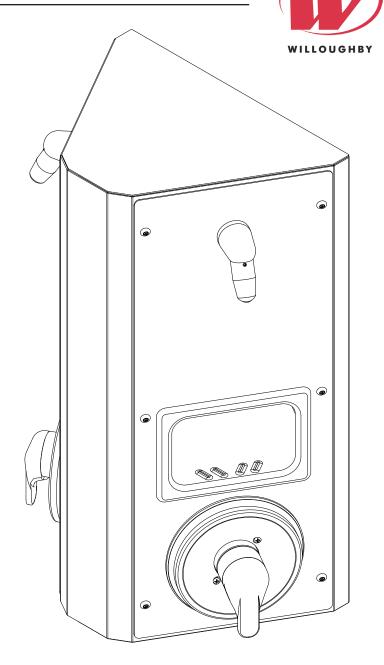
Shower face plates shall be fabricated from 16 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Wall bracket shall be fabricated from 16 gauge, Type 304 stainless steel.

Standard equipment shall include:

- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- Mounting bracket

Shower face plate shall attach to mounting bracket with vandal resistant stainless steel security screws. Mounting bracket anchoring hardware by others. Unit requires no chase area for installation and maintenance.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Two Station, Surface Mounted Wall Shower with temp./pressure-balancing mixing valves, standard 2.5 GPM flow rate, APS adjustable vandal-resistant shower heads, and recessed soap dishes

Use the following Willoughby Model Number: CWDS-TPV-2.5-APS-RD



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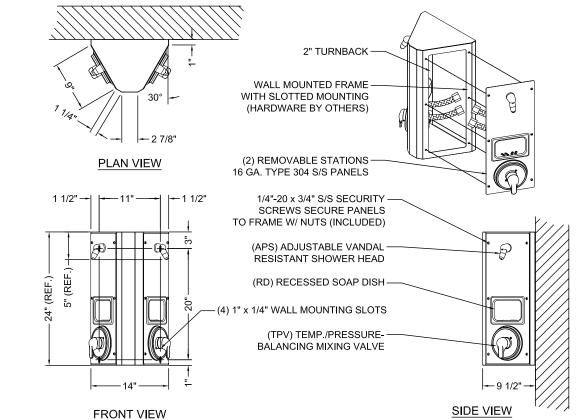
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MODEL NOMBER AND OF HORO.							
1.) Base Model Number: CWDS Two Station, Surface Mounted Wall Shower 2.) Velve Selection:	6.) Shower Head Selection: APS Adjustable Vandal-resistant Shower Head NPS Non-Adjustable Vandal-resistant Shower Head UBJ Universal Ball Joint Shower Head						
2.) Valve Selection: NV No Valve PML1 Single Temp. Pneumatic Metering PML2 Dual Temp. Pneumatic Metering Single Temp. Electronic (Pick Control)*	□ UBJ Universal Ball Joint Shower Head □ LBJ Lockable Ball Joint Shower Head □ CSH Ligature-resistant Shower Head** □ LRSH Ligature-resistant Shower Head, WaterSense Labeled Insert (1.5 GPM & 2.0 GPM Flow Rate only) **						
□ E1L2 Dual Temp. Electronic (Pick Control)* □ PBV Pressure-Balancing Mixing Valve □ TPV Temperature/Pressure-Balancing Mixing Valve □ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve** □ SVC Single Temp. Compression Valve □ DVC Dual Temp. Compression Valves 3.) Push Button Selection: Pneumatic or Electronic Valves Only: □ PBH Ligature-resistant Pneumatic Push Buttons** □ PZPB Ligature-resistant Piezo Electronic Push Buttons*/**	7.) Other Options: TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard) TF24P Plug-in Transformer, 110VAC to 24VAC* Inline Thermostatic Mixing Valve SLB24 24" Adjustable Slide Bar (for Flexshower, Wall Mounted) SD Surface Mounted Soap Dish RD Recessed Mounted Soap Dish PS Pipe Shroud (Specify Length):						
4.) Flow Rates: ☐ 2.5 GPM (Standard) ☐ 2.0 GPM ☐ 1.5 GPM	*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)						
5.) Electronic Control* (Must Use Electronic Push Button): WUSC-2200 WUSC-2400 Pneutronic	**LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.						
Approved For Manufacturing By: Wall Type:	Date: Company:						



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CWDS-HCA Series Handicap Accessible Two Station Surface Mounted Wall Shower



Recommended Specifications

Handicap Accessible, Two Station, Surface Mounted Wall Shower shall be: Willoughby Model No. **CWDS-HCA** (Select from model number and options list on next page)

Shower cabinet shall be fabricated from 16 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Wall bracket shall be fabricated from 16 gauge, Type 304 stainless steel.

Standard equipment shall include:

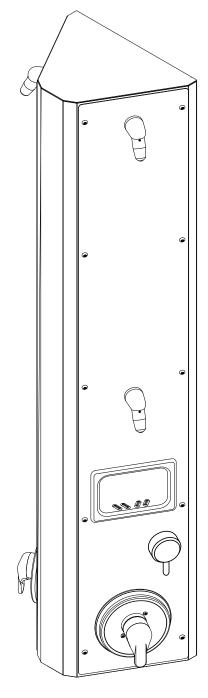
- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- Mounting bracket

Shower face plate shall attach to mounting bracket with vandal resistant stainless steel security screws. Mounting bracket anchoring hardware by others. Unit requires no chase area for installation and maintenance.

Handicap Accessible:

The CWDS-HCA surface mounted shower will have one HCA station per shower fixture and conform to most, but not all, ADA requirements. (Compliance shall be subject to the requirements of the local code authority based on installation-specific details and is the responsibility of the installer.)

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Handicap Accessible, Two Station, Surface Mounted Wall Shower with temp./ pressure-balancing mixing valve, diverter valve, standard 2.5 GPM flow rate, (2) APS adjustable vandal-resistant shower heads, and recessed soap dish

Use the following Willoughby Model Number: CWKS-HCA-TPV-DV-2.5-APS-2HD-RD



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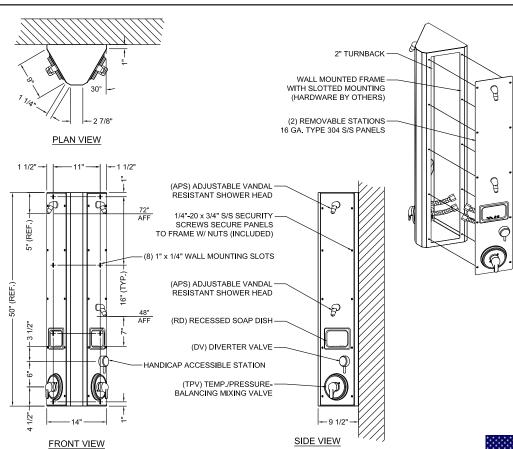
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MODEL	NUMBER	OPT	IONS:
			ILJING).

1.) Base Model Nun	iber:	7.) Electronic Control* (Must Use Electronic Push Button):				
CWDS-HCA	Handicap Accessible, Two Station,	■ WUSC-2	2200 WUSC-2400 Pneutronic			
	Surface Mounted Wall Shower					
			Head Selection:			
2.) Shower Orientat	ion (Must Specify):	APS Adjustable Vandal-resistant Shower Head				
■ L Left Side	e HCA Shower Station	■ NPS	Non-Adjustable Vandal-resistant Shower Head			
Right Si	de HCA Shower Station	UBJ	Universal Ball Joint Shower Head			
		🔲 LBJ	Lockable Ball Joint Shower Head			
3.) Valve Selection:		☐ CSH	Ligature-resistant Shower Head**			
■ NV No Val	ve	☐ FX	Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker,			
PML1 Single	Temp. Pneumatic Metering		and (1) hook)			
PML2 Dual To	emp. Pneumatic Metering	LRSH	Ligature-resistant Shower Head, WaterSense Labeled Insert			
☐ E1L1 Single	Temp. Electronic (Pick Control)*		(1.5 GPM & 2.0 GPM Flow Rate only) **			
E1L2 Dual To	emp. Electronic (Pick Control)*	2HD	Dual Fixed Shower Heads (replaces (FX) Flexshower			
□ PBV Pressu	re-Balancing Mixing Valve		head w/ second of the selected fixed Shower Head)			
	rature/Pressure-Balancing Mixing Valve					
TPLR Ligatur	e-resistant Temp/Pressure-balancing Mixing Valve**	9.) Other O	ptions:			
	Temp. Compression Valve (w/ ADA lever handle)	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC* (Standard)			
DVCL Dual To	emp. Compression Valves (w/ ADA lever handle)	☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*			
		☐ TMV	Inline Thermostatic Mixing Valve			
4.) Diverter Valve:		☐ HL	Hi-Lo (2 Hooks For Flexshower, Wall Mounted)			
□ DV	Diverter Valve	☐ SLB24	24" Adjustable Slide Bar (for Flexshower, Wall Mounted)			
DVLR	Ligature-resistant Diverter Valve**	☐ SD	Surface Mounted Soap Dish			
PML1-MA2	Two Single Temp. Pneumatic Metering Valves	🔲 RD	Recessed Mounted Soap Dish			
	(Used to divert water flow to either upper, lower, or both	□ PS	Pipe Shroud (Specify Length):			
	shower heads; for use with Mixing Valve options above)					
		Other				
5.) Push Button Sel	ection:					
Pneumatic or Electro	nic Valves Only:	*(Req. 110	V power through ground fault interrupter (GFCI) receptacle / breaker)			
	e-resistant Pneumatic Push Buttons**					
PZPB Ligatur	Ligature-resistant Piezo Electronic Push Buttons*/**		RE-RESISTANT DISCLAIMER			
		This produ	ct is designed to minimize ligature points. While every effort has been made			
6.) Flow Rates:		to reduce the possibility of ligature points, this product does not eliminate all risks.				
2.5 GPM (Standa	rd) 🔲 2.0 GPM 🔲 1.5 GPM	Ligature-R	esistant products by Willoughby Industries are to be used in conjunction			
		with, not a	s a replacement for, trained professionals.			
Approved Fo	Manufacturing By:	Date	: Company:			
	Walidiacturing by.	Date				
Wall Thicknes	ss: Wall Type:					

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CWTS Series Three Station Surface Mounted Wall Shower

Recommended Specifications

Three Station, Surface Mounted Wall Shower shall be: Willoughby Model No. CWTS (Select from model number and options list on next page)

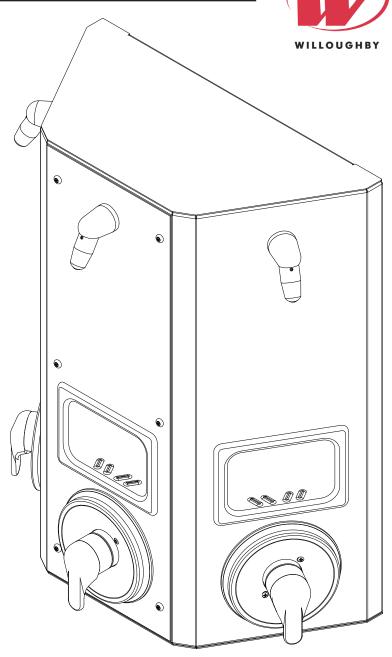
Shower face plates shall be fabricated from 16 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Wall bracket shall be fabricated from 16 gauge, Type 304 stainless steel.

Standard equipment shall include:

- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- Mounting bracket

Shower face plate shall attach to mounting bracket with vandal resistant stainless steel security screws. Mounting bracket anchoring hardware by others. Unit requires no chase area for installation and maintenance.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Three Station, Surface Mounted Wall Shower with temp./pressure-balancing mixing valves, standard 2.5 GPM flow rate, APS adjustable vandal-resistant shower heads, and recessed soap dishes

Use the following Willoughby Model Number: CWTS-TPV-2.5-APS-RD



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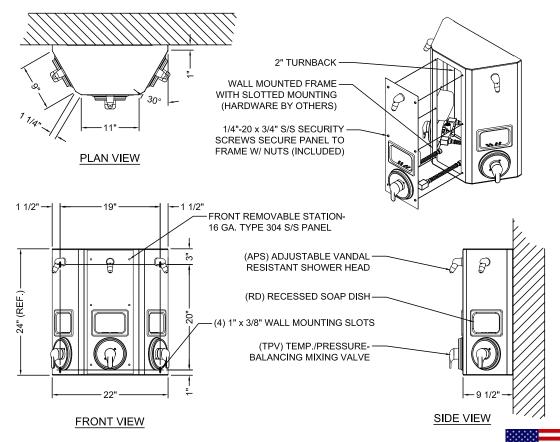
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1.) Base Model Number:	6.) Shower Head Selection:			
☐ CWTS Surface Mounted, Three Station Wall Shower	APS Adjustable Vandal-resistant Shower Head			
	NPS Non-Adjustable Vandal-resistant Shower Head			
2.) Valve Selection:	UBJ Universal Ball Joint Shower Head			
■ NV No Valve	☐ LBJ Lockable Ball Joint Shower Head			
☐ PML1 Single Temp. Pneumatic Metering	☐ CSH Ligature-resistant Shower Head**			
☐ PML2 Dual Temp. Pneumatic Metering	LRSH Ligature-resistant Shower Head, WaterSense Labeled Insert			
☐ E1L1 Single Temp. Electronic (Pick Control)*	(1.5 GPM & 2.0 GPM Flow Rate only)**			
☐ E1L2 Dual Temp. Electronic (Pick Control)*				
☐ PBV Pressure-Balancing Mixing Valve	7.) Other Options:			
☐ TPV Temperature/Pressure-Balancing Mixing Valve	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)			
☐ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve**	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*			
☐ SVC Single Temp. Compression Valve	☐ TMV Inline Thermostatic Mixing Valve			
☐ DVC Dual Temp. Compression Valves	☐ SD Surface Mounted Soap Dish			
	RD Recessed Mounted Soap Dish			
3.) Push Button Selection:	☐ PS Pipe Shroud (Specify Length):			
Pneumatic or Electronic Valves Only:				
☐ PBH Ligature-resistant Pneumatic Push Buttons**	☐ Other			
□ PZPB Ligature-resistant Piezo Electronic Push Buttons*/**	Other			
4.) Flow Rates:	*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)			
☐ 2.5 GPM (Standard) ☐ 2.0 GPM ☐ 1.5 GPM				
	**LIGATURE-RESISTANT DISCLAIMER			
5.) Electronic Control* (Must Use Electronic Push Button):	This product is designed to minimize ligature points. While every effort has			
☐ WUSC-2200 ☐ WUSC-2400 ☐ Pneutronic	been made to reduce the possibility of ligature points, this product does not			
	eliminate all risks. Ligature-Resistant products by Willoughby Industries are			
	to be used in conjunction with, not as a replacement for, trained			
	professionals.			
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Annual Car Manufacturing Du	Deter			

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____





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CWTS-HCA Series Handicap Accessible Three Station Surface Mounted Wall Shower



Recommended Specifications

Handicap Accessible, Three Station, Surface Mounted Wall Shower shall be: Willoughby Model No. **CWTS-HCA** (Select from model number and options list on next page)

Shower cabinet shall be fabricated from 16 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Wall bracket shall be fabricated from 16 gauge, Type 304 stainless steel.

Standard equipment shall include:

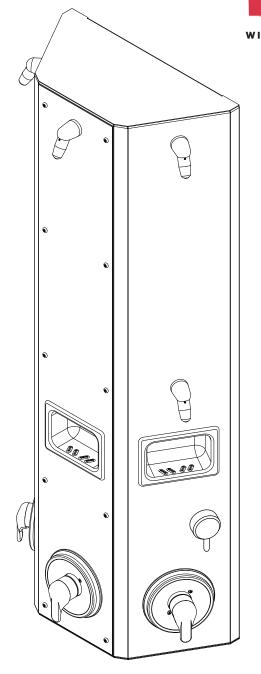
- Shower valves (from Valve Selection options list)
- Shower head (from Shower Head Selection options list)
- Mounting bracket

Shower face plate shall attach to mounting bracket with vandal resistant stainless steel security screws. Mounting bracket anchoring hardware by others. Unit requires no chase area for installation and maintenance.

Handicap Accessible:

The CWTS-HCA surface mounted shower will have one HCA station per shower fixture and conform to most, but not all, ADA requirements. (Compliance shall be subject to the requirements of the local code authority based on installation-specific details and is the responsibility of the installer.)

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).



RIGHT HAND HCA STATION SHOWN (Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Handicap Accessible, Three Station, Surface Mounted Wall Shower with right hand HCA shower station, temp./pressure-balancing mixing valve, diverter valve, 2.5 GPM flow rate, (2) APS adjustable vandal-resistant shower heads, and recessed soap dish

Use the following Willoughby Model Number: CWTS-HCA-R-TPV-DV-2.5-APS-2HD-RD



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MODEL	NUME	RFR A	ND (PT	IONS:
	INCINE		\mathbf{I}	/	O 1 1 O .

1.) Base Model Number:		,	nic Control* (Must Use Electronic Push Button):
☐ CWTS-HCA Handicap Accessible, Three State Wall Shower	ion, Surface Mounted	☐ WUSC-2	2200
vvaii Silowei		8.) Shower	Head Selection:
2.) Shower Orientation (Must Specify):		☐ APS	Adjustable Vandal-resistant Shower Head
☐ L Left Hand HCA Shower Station		☐ NPS	Non-Adjustable Vandal-resistant Shower Head
Right Hand HCA Shower Station		UBJ	Universal Ball Joint Shower Head
3.) Valve Selection:		☐ LBJ ☐ CSH	Lockable Ball Joint Shower Head Ligature-resistant Shower Head**
☐ NV No Valve		☐ FX	Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker,
☐ PML1 Single Temp. Pneumatic Metering			and (1) hook)
PML2 Dual Temp. Pneumatic Metering		☐ LRSH	Ligature-resistant Shower Head, WaterSense Labeled Insert
☐ E1L1 Single Temp. Electronic (Pick Control)* ☐ E1L2 Dual Temp. Electronic (Pick Control)*		☐ 2HD	(1.5 GPM & 2.0 GPM Flow Rate only) ** Dual Fixed Shower Heads (replaces (FX) Flexshower
☐ PBV Pressure-Balancing Mixing Valve		3 2.1.5	head w/ second of the selected fixed Shower Head)
☐ TPV Temperature/Pressure-Balancing Mixing Val			
TPLR Ligature-resistant Temp/Pressure-balancing		9.) Other O	•
□ SVCL Single Temp. Compression Valve (w/ ADA le		☐ TF24H ☐ TF24P	Hard-wired Transformer, 110VAC to 24VAC* (Standard) Plug-in Transformer, 110VAC to 24VAC*
Brock Bull temp. Compression valves (W/NB/NIC)	or narrato)	☐ TMV	Inline Thermostatic Mixing Valve
4.) Diverter Valve:		HL	Hi-Lo (2 Hooks For Flexshower, Wall Mounted)
DV Diverter Valve		SLB24	24" Adjustable Slide Bar (for Flexshower, Wall Mounted)
□ DVLR Ligature-resistant Diverter Valve□ PML1-MA2 Two Single Temp. Pneumatic Me		☐ SD ☐ RD	Surface Mounted Soap Dish Recessed Mounted Soap Dish
(Used to divert water flow to either	•	☐ PS	Pipe Shroud (Specify Length):
shower heads; for use with Mixin	• • • • • • • • • • • • • • • • • • • •	_	
		Other	
5.) Push Button Selection: Pneumatic or Electronic Valves Only:		*(Reg. 110	DV power through ground fault interrupter (GFCI) receptacle / breaker)
☐ PBH Ligature-resistant Pneumatic Push Buttons**	r	(rtcq. rrc	y power unough ground laure menupier (or or) receptable / breaker)
☐ PZPB Ligature-resistant Piezo Electronic Push But		**LIGATUI	RE-RESISTANT DISCLAIMER
O.Fl. B.O.			uct is designed to minimize ligature points. While every effort has been made
6.) Flow Rates: ☐ 2.5 GPM (Standard) ☐ 2.0 GPM ☐ 1.5	GPM		the possibility of ligature points, this product does not eliminate all risks. Resistant products by Willoughby Industries are to be used in conjunction
	3. W	•	s a replacement for, trained professionals.
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		SCF	REWS SECURE PANEL TO
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18 AE	(486)	ADJUSTABLE VA	
		STANT SHOWER	
H FA	AFF		
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So" (REF.)	₅₀ (AF3)	ADJUSTABLE VA STANT SHOWER	
	48"		
 	11 17 155	RECESSED SOAF	
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FRONT VIEW

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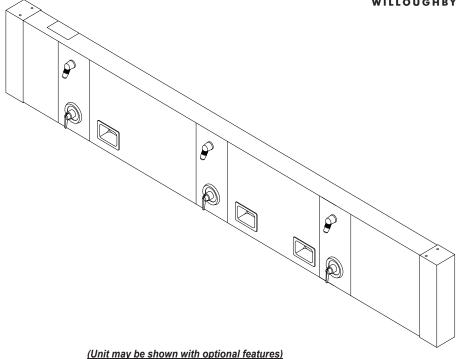
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(TPV) TEMP./PRESSURE-BALANCING MIXING VALVE

SIDE VIEW



CWCWS Series Continuous Wall Shower



To specify fixture and accessor

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Continuous Wall Shower system with (3) stations, temp./pressure-balancing mixing valves, standard 2.5 GPM flow rate, standard APS adjustable vandal-resistant shower heads, and recessed soap dishes

Use the following Willoughby Model Number: CWCWS-3-TPV-2.5-APS-RD

Recommended Specifications

Continuous Wall Shower system shall be: Willoughby Model No. **CWCWS** (Select from model number and options list on next page)

Shower housing shall be fabricated from 16 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- Individual shower station panels fastened with vandal resistant security screws

Standard spacing between shower heads shall be 36"

Shower unit shall be factory pre-piped, tested for proper operation and ready for installation by contractor. Anchoring shall be by mounting bracket with Uni-Strut for supplies, with anchoring hardware by others. Unit requires no chase area for installation and maintenance.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).

Note: Continuous wall shower systems are designed for each specific application. Contractor shall furnish to manufacturer exact field dimensions prior to fabrication.

NUMBER OF SHOWER HEADS	INLET DIAMETER*
1 TO 4	3/4"
5 TO 8	1"
9 TO 11	1 1/4"
12+	1 1/2"

*BASED ON 45 PSI INLET PRESSURE



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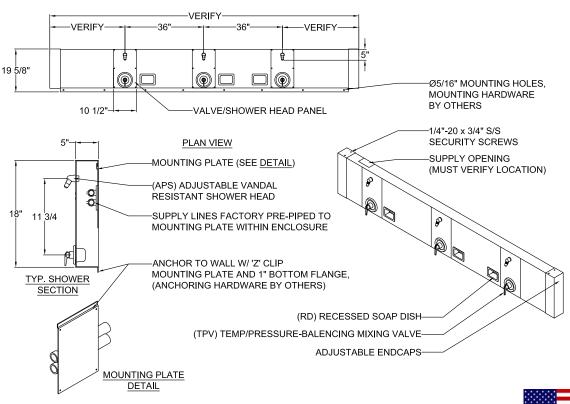
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1.) Base Model Number:	7.) Shower Head Selection:
☐ CWCWS Continuous Wall Shower	APS Adjustable Vandal-resistant Shower Head
	■ NPS Non-Adjustable Vandal-resistant Shower Head
2.) Shower Stations:	■ UBJ Universal Ball Joint Shower Head
☐ Number of Shower Stations (must specify):	☐ LBJ Lockable Ball Joint Shower Head
	☐ CSH Ligature-resistant Shower Head**
3.) Valve Selection:	FX Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker,
NV No Valve	and (1) hook)
PML1 Single Temp. Pneumatic Metering	☐ LRSH Ligature-resistant Shower Head, WaterSense Labeled Insert
PML2 Dual Temp. Pneumatic Metering	(1.5 GPM & 2.0 GPM Flow Rate only) **
☐ E1L1 Single Temp. Electronic (Pick Control)*	
□ E1L2 Dual Temp. Electronic (Pick Control)*	8.) Other Options:
PBV Pressure-Balancing Mixing Valve	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
☐ TPV Temperature/Pressure-Balancing Mixing Valve	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
☐ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve**	☐ TMV Inline Thermostatic Mixing Valve
☐ SVC Single Temp. Compression Valve	☐ SD Surface Mounted Soap Dish
☐ DVC Dual Temp. Compression Valves	RD Recessed Mounted Soap Dish
☐ MA2 Valve Manifold Option (Pneumatic or Electronic Valves Only):	☐ PS Pipe Shroud (Specify Length):
(See the Manifold Option Page at the end of	
Catalog Section <u>C14</u> for further information)	☐ HCA Handicap Accessible Shower Station (1 station will include: Diverter Valve, Hand-held Flexshower Head, and 1 Flexshower Hook)
4.) Push Button Selection:	Other
Pneumatic or Electronic Valves Only:	Other
☐ PBH Ligature-resistant Pneumatic Push Buttons**	
☐ PZPB Ligature-resistant Piezo Electronic Push Buttons*/**	*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)
5.) Flow Rates:	**LIGATURE-RESISTANT DISCLAIMER
□ 2.5 GPM (Standard)□ 2.0 GPM□ 1.5 GPM	This product is designed to minimize ligature points. While every effort has
	been made to reduce the possibility of ligature points, this product does not
6.) Electronic Control* (Must Use Electronic Push Button):	eliminate all risks. Ligature-Resistant products by Willoughby Industries are to
□ WUSC-2200 □ WUSC-2400 □ Pneutronic	be used in conjunction with, not as a replacement for, trained professionals.
Approved For Manufacturing By:	
Wall Thickness: Wall Type:	

CONTRACTOR SHALL FURNISH TO MANUFACTURER EXACT FIELD DIMENSIONS PRIOR TO FABRICATION



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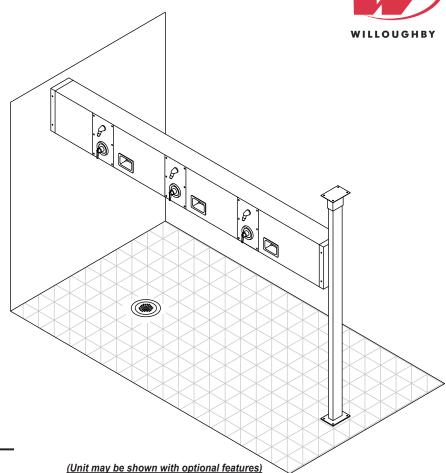
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CWBTBS Series Back-to-Back Continuous Wall Shower



Recommended Specifications

Back-to-back Continuous Wall Shower system shall be: Willoughby Model No. **CWBTBS** (Select from model number and options list on next page)

Shower housing shall be fabricated from 16 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- Individual shower station panels fastened with vandal resistant security screws

Standard spacing between shower heads shall be 36"

Shower unit shall be factory pre-piped, tested for proper operation and ready for installation by contractor. Anchoring shall be by mounting bracket on the wall and floor mounted stanchion. Wall and floor anchoring hardware by others. Unit requires no chase area for installation and maintenance.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Back-to-back Continuous Wall Shower system with (3) stations, temp./pressure-balancing mixing valves, standard 2.5 GPM flow rate, standard APS adjustable vandal-resistant shower heads, individual checkstops, and recessed soap dishes

Use the following Willoughby Model Number: CWBTBS-3-TPV-2.5-APS-GX-RD

Back to Back Continuous wall shower systems are designed for each specific application. Contractor shall furnish to manufacturer exact field dimensions prior to fabrication.

NUMBER OF SHOWER HEADS	INLET DIAMETER*
1 TO 4	3/4"
5 TO 8	1"
9 TO 11	1 1/4"
12+	1 1/2"

*BASED ON 45 PSI INLET PRESSURE



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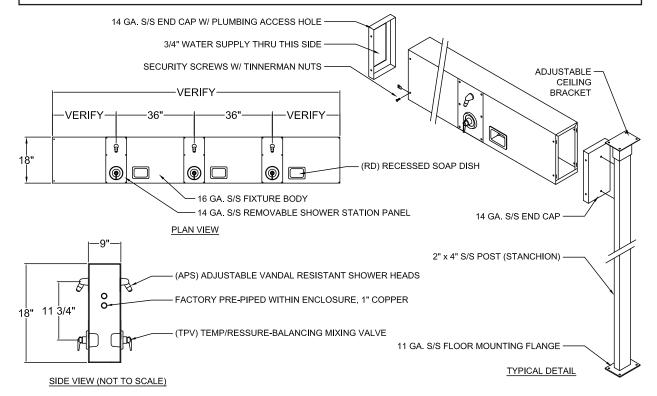
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1.) Base Model Number: ☐ CWBTBS Back-to-Back Continuous Wall Shower	7.) Shower Head Selection: APS Adjustable Vandal-resistant Shower Head NPS Non-Adjustable Vandal-resistant Shower Head
2.) Shower Stations:	UBJ Universal Ball Joint Shower Head
Number of Non-handicap Shower Stations (must specify):	☐ LBJ Lockable Ball Joint Shower Head
	☐ CSH Ligature-resistant Shower Head**
3.) Valve Selection:	☐ FX Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker,
■ NV No Valve	and (1) hook)
☐ PML1 Single Temp. Pneumatic Metering	☐ LRSH Ligature-resistant Shower Head, WaterSense Labeled Insert
☐ PML2 Dual Temp. Pneumatic Metering	(1.5 GPM & 2.0 GPM Flow Rate only) **
☐ E1L1 Single Temp. Electronic (Pick Control)*	
☐ E1L2 Dual Temp. Electronic (Pick Control)*	8.) Other Options:
☐ PBV Pressure-Balancing Mixing Valve	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
☐ TPV Temperature/Pressure-Balancing Mixing Valve	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
☐ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve**	☐ TMV Inline Thermostatic Mixing Valve
☐ SVC Single Temp. Compression Valve	☐ SD Surface Mounted Soap Dish
☐ DVC Dual Temp. Compression Valves	RD Recessed Mounted Soap Dish
☐ MA2 Valve Manifold Option (Pneumatic or Electronic Valves Only):	☐ PS Pipe Shroud (Specify Length):
(See the Manifold Option Page at the end of	
Catalog Section <u>C14</u> for further information)	□ Other □
	☐ Other
4.) Push Button Selection:	
Pneumatic or Electronic Valves Only:	*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)
☐ PBH Ligature-resistant Pneumatic Push Buttons**	
☐ PZPB Ligature-resistant Piezo Electronic Push Buttons*/**	**LIGATURE-RESISTANT DISCLAIMER
	This product is designed to minimize ligature points. While every effort has
5.) Flow Rates:	been made to reduce the possibility of ligature points, this product does not
☐ 2.5 GPM (Standard) ☐ 2.0 GPM ☐ 1.5 GPM	eliminate all risks. Ligature-Resistant products by Willoughby Industries are to
	be used in conjunction with, not as a replacement for, trained professionals.
6.) Electronic Control* (Must Use Electronic Push Button):	
☐ WUSC-2200 ☐ WUSC-2400 ☐ Pneutronic	
Assessed For Money for the sign of Day	D-t
Approved For Manufacturing By:	
Wall Thickness: Wall Type:	

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CWCSY Series 2-6 Station Type Y **Column Shower**

Recommended Specifications

Type Y column shower shall be: Willoughby Model No. CWCSY-(Select from model number and options list on next page)

Shower column fabricated from 16 gauge, Type 304 stainless steel with exposed surfaces polished to a #4 satin finish.

Standard equipment shall include:

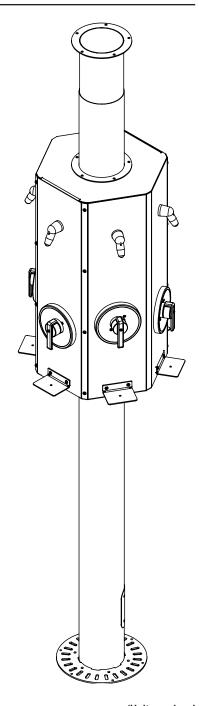
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- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- Stainless steel drain fitting and access panel

Supplies are from above or below. Drain configuration shall be vented off line or vented through column.

Shower unit is factory assembled, tested for proper operation, and ready for installation by a contractor. Mounting bolts are provided for fastening column to drain fitting. Ceiling fasteners furnished by others.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a CWCSY column shower with 6 stations, temp./pressure-balancing mixing valves, standard 2.5 GPM flow rate, standard APS adjustable vandal-resistant shower heads, supplies below/vent off line, surface mounted soap dishes, and telescoping pipe shroud

Use the following Willoughby Model Number: CWCSY-6-TPV-2.5-APS-A-SD-TSH



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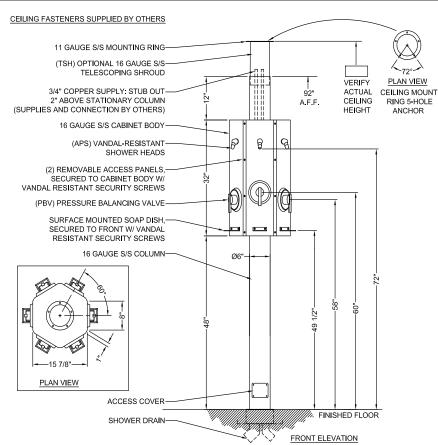
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C14-29

				IV	IODEL NO	JMBER	K AND O	PHON	5 :	
1.) Base Mo		er: Column Showe	r			8.) Supply A A B	And Drain Type: Supplies Below/\ Supplies Above/\	/ent Off Line /ent Thru Column		
2.) Number	Of Station	is:				□ C	Supplies Below/V	ent Thru Column		
2	3	4	□ 5	□ 6		☐ D	Supplies Above/\	/ent Off Line		
3.) Valve Se	election:					9.) Other O	ptions:			
☐ NV	No Valv	re .				☐ CA	Ceiling Anchor			
☐ PML1	Single 7	Гетр. Pneuma	atic Metering			☐ HCA	Handicap Access	sible Shower Station	on (1 station will include:	
PML2		mp. Pneumati				_			wer Head, and 1 Flexshow	er Hook)
□ E1L1		Temp. Electron		ol)*		☐ TF24H			o 24VAC* (Standard)	
☐ E1L2		mp. Electronic				☐ TF24P		ner, 110VAC to 24	,	
		•		,			-		VAC	
☐ PBV		re-Balancing M				☐ TMV	Inline Thermostat			
☐ TPV		ature/Pressure				SD	Surface Mounted			
■ TPLR	-			alancing Mixing	Valve**	RD RD	Recessed Mount			
SVC		Temp. Compre				☐ GB24V			Mounted to Shower)	
DVC	Dual Te	mp. Compress	sion Valves			☐ TSH	Telescoping Pipe	Shroud (Specify	Ceiling Height):	
						USV	Unit Shut-Off Valv	ve		
4.) Push Bu	utton Selec	ction:				Other				
		c Valves Only:				Other				
☐ PBH		e-resistant Pne		Buttons**						
☐ PZPB				Push Buttons*/*	*	*/Reg 110	V nower through aro	und fault interrunt	er (GFCI) receptacle / brea	okar)
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5.) Flow Ra	tes:					**LIGATUF	RE-RESISTANT DI	ISCLAIMER		
☐ 2.5 GPN	1 (Standard) 2.0 GF	PM 🔲 1.5 G	PM		This produ	ct is designed to m	ninimize ligature	points. While every effor	rt has been made to reduce the
_	`	<i>′</i> –	_							igature-Resistant products by
6.) Electron	ic Control	* (Must Use E	lectronic Pus	sh Button):						lacement for, trained professionals
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7.) Shower	Head Sele	ction:								
☐ APS		ble Vandal-res	istant Shower	Head						
☐ NPS		ljustable Vanda								
☐ UBJ		al Ball Joint Sl		ower ricau						
_										
LBJ		le Ball Joint Sh								
□ CSH	•	e-resistant Sho								
☐ FX			r Head (w/ qui	ick disconnect,	vacuum breaker,					
	and (1)	hook)								
LRSH	Ligature	e-resistant Sho	wer Head, Wa	aterSense Labe	eled Insert					
	(1.5 GF	M & 2.0 GPM	Flow Rate onl	ly) **						
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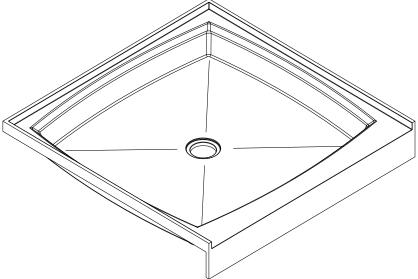
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Aquasurf® Solid Surface **Shower Base** Square, Rectangular





(36" x 36" SQUARE SHOWN)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a 36 x 36 square base in Glacier White.

Use the following Willoughby Model Number:

AS-S3636-GW

Recommended Specifications

Solid Surface Shower Base shall be: Willoughby Aquasurf® Model No. AS-(Select from model number and options list on next page)

Aquasurf® Solid Surface Products Shower Bases are designed for single and multiple applications. The Shower Base shall be a monolithic cast component. Aquasurf® Solid Surface Products polymer materials, composed of fully densified aluminum trihydrate mineral fillers, homogeneously blended in an engineered, UV stabilized, acrylic modified polyester resin and antimicrobial additive*.

Shower Base shall have integrally molded support bracing on bottom, positive sloped non-slip textured interior floor and integral perimeter flange. Aguasurf® Solid Surface Products Shower Base shall incorporate integral threshold, curb and Ø3-1/2" standard opening for Ø2" no-hub drain connection. Drain is included.

Shower Base shall be available in solid color or granite pattern solid surface (specify color selection).

Solid Surface Shower Base shall comply with ANSI Z124.2.

Vandal Resistance:

Aquasurf® Solid Surface Products Shower Bases offer high impact, chip, scratch and burn resistance. Topical surface damages can easily be repaired with minor abrasive applications (3M #7448 Scotch-Brite™) The viral, bacteriological, chemical, mildew and mold resistance provides a sanitary, easily cleaned, durable, low maintenance component.

Optional Features:

Aguasurf® Solid Surface Products wall panel kits with overlay battens, coved corners and soap/shampoo assemblies provide all components required to complete shower area enclosure (refer to selection sheet for unit designation).

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria. viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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1.) Base Type:

- ☐ AS-S3636 36x36 Square Base
- ☐ AS-S3648 36x48 Rectangular Base ☐ AS-S3660 36x60 Rectangular Base

2.) Commercial Wall Kits (1/4" Panels):

- ☐ ASK-S3636 (3) 34-3/4x84 Panels
 - (2) AS-IS-CV8 Inside Corner

Cove Overlay

■ ASK-S3648

- (2) 34-3/4x84 Panels
 - (2) 23-1/4x84 Panels
 - (1) 3x84 Overlay (2) AS-IS-CV8 Inside Corner

Cove Overlay

- ☐ ASK-S3660
- (2) 34-3/4x84 Panels (2) 29-1/4 x 84 Panels
 - (1) 3x84 Overlay
 - (2) AS-IS-CV8 Inside Corner

Cove Overlay

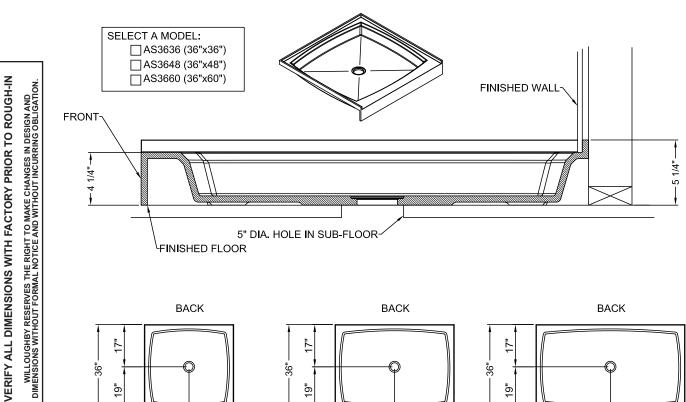
3.) Accessories:

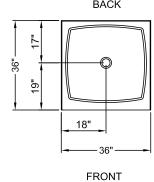
- ☐ AS-SSH Soap/Shampoo Holder
- ☐ LRD4 4" Ligature-Resistant Drain Cover

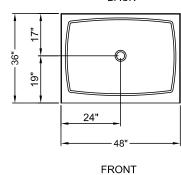
4.) Solid Surface Color:

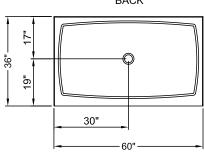
- BN Bone
- ☐ GW Glacier White
- ☐ GG Grey Granite
- ☐ SS Sandstone
- ☐ WG White Granite ☐ BG Black Granite
- NB Nocturnal Blue
- RC Red Coral
- ☐ SG Sea Green

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		









FRONT

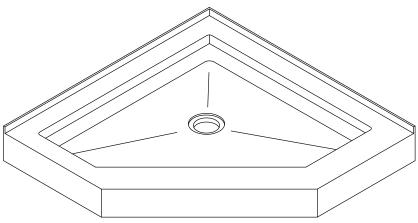
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Aquasurf® Solid Surface **Shower Base** Round, Angular



(NEO ANGLE SHOWN)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a 36" neo-angle base in Glacier White

Use the following Willoughby Model Number:

AS-S36NEO-GW

Recommended Specifications

Solid Surface Shower Base shall be: Willoughby Aquasurf® Model No. AS-(Select from model number and options list on next page)

Aquasurf® Solid Surface Products Shower Bases are designed for single and multiple applications. The Shower Base shall be a monolithic cast component. Aquasurf® Solid Surface Products polymer materials, composed of fully densified aluminum trihydrate mineral fillers, homogeneously blended in an engineered, UV stabilized, acrylic modified polyester resin and antimicrobial additive*.

Shower Base shall have integrally molded support bracing on bottom, positive sloped non-slip textured interior floor and integral perimeter flange. Aguasurf® Solid Surface Products Shower Base shall incorporate integral threshold, curb and Ø3-1/2" standard opening for Ø2" no-hub drain connection. Drain is included.

Shower Base shall be available in solid color or granite pattern solid surface (specify color selection).

Solid Surface Shower Base shall comply with ANSI Z124.2.

Vandal Resistance:

Aguasurf® Solid Surface Products Shower Bases offer high impact, chip, scratch and burn resistance. Topical surface damages can easily be repaired with minor abrasive applications (3M #7448 Scotch-Brite™) The viral, bacteriological, chemical, mildew and mold resistance provides a sanitary, easily cleaned, durable, low maintenance component.

Optional Features:

Aquasurf® Solid Surface Products wall panel kits with overlay battens, coved corners and soap/shampoo assemblies provide all components required to complete shower area enclosure (refer to selection sheet for unit designation).

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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1.) Base Type:

AS-S36NEO 36x36 Neo-Angle Base

☐ AS-S42NEO☐ AS-S36RND42x42 Neo-Angle Base☐ 36x36 Round Front Base

2.) Commercial Wall Kits (1/4" Panels):

☐ ASK-S36NEO (2) 34-3/4x84 Panels

(2) 17-3/8x84 Jamb Panels (3) AS-IS-CV8 Inside Corner

Cove Overlay

ASK-S42NEO (2) 40-3/4x84 Panels

(2) 23-3/8x84 Jamb Panels

(3) AS-IS-CV8 Inside Corner

Cove Overlay

☐ ASK-S36RND (2) 34-3/4x84 Panels

(1) AS-IS-CV8 Inside Corner Cove Overlay 3.) Accessories:

☐ AS-SSH Soap/Shampoo Holder

☐ LRD4 4" Ligature-Resistant Drain Cover

4.) Solid Surface Color:

■ BN Bone

☐ GW Glacier White

GG Grey Granite

SS Sandstone

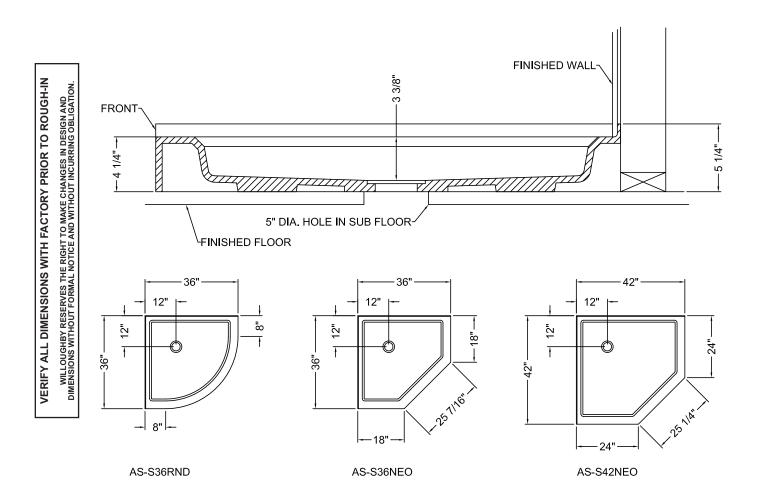
□ WG White Granite□ BG Black Granite

■ NB Nocturnal Blue

RC Red Coral

☐ SG Sea Green

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Type: _____



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SHOWER HEAD OPTIONS



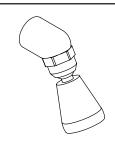


SHOWER HEAD IS FIXED TYPE. CONSTRUCTED ENTIRELY OF STAIN-LESS STEEL MOUNTED FROM THE REAR WITH NO REMOVABLE PARTS AND SHALL HAVE A 30 DEGREE ADJUSTABLE ANGLE OF SPRAY. THE HEAD SHALL HAVE 3/8" F.I.P. THREADS ON THE INLET. THE ENTIRE UNIT HAS A TAPERED LIGATURE-RESISTANT DESIGN. USER CAN ADJUST THE SPRAY PATTERN.

SHOWER HEAD IS FIXED TYPE. CONSTRUCTED ENTIRELY OF STAIN-LESS STEEL MOUNTED FROM THE REAR WITH NO REMOVABLE PARTS AND SHALL HAVE A 30 DEGREE ADJUSTABLE ANGLE OF SPRAY. THE HEAD SHALL HAVE 3/8" F.I.P. THREADS ON THE INLET. THE ENTIRE UNIT HAS A TAPERED LIGATURE-RESISTANT DESIGN. USER **CANNOT** ADJUST THE SPRAY PATTERN.

(APS) ADJUSTABLE VANDAL-RESISTANT SHOWER HEAD

(NPS) NON-ADJUSTABLE VANDAL-RESISTANT SHOWER HEAD



SHOWER HEAD IS CONSTRUCTED FROM CHROME-PLATED BRASS. MOUNTED FROM THE REAR WITH NO REMOV-ABLE PARTS. THE HEAD SHALL HAVE 3/8" F.I.P. THREADS ON THE INLET. THIS UNIT ALLOWS THE USER TO MOVE THE SHOWER HEAD IN ALL DIRECTIONS AND TO ADJUST THE SPRAY PATTERN.



SHOWER HEAD IS CONSTRUCTED FROM CHROME-PLATED BRASS. MOUNTED FROM THE REAR WITH NO REMOVABLE PARTS. THE HEAD SHALL HAVE 3/8" F.I.P. THREADS ON THE INLET. THIS UNIT ALLOWS FOR LOCKING THE SHOWER HEAD IN A MULTITUDE OF DESIRED PO-SITIONS WITH A SET SCREW. USER CAN ADJUST THE SPRAY PATTERN.

(UBJ) UNIVERSAL BALL JOINT SHOWER HEAD



SHOWER HEAD IS FIXED TYPE CONSTRUCTED OF TYPE 303 STAIN-LESS STEEL. MOUNTED FROM THE REAR WITH NO VISIBLE FASTENERS. AND SHALL HAVE A 30° ANGLE OF SPRAY THROUGH A DELRIN INSERT, RETAINED BY A STAINLESS STEEL PIN-TORX SE-CURITY SCREW. THE HEAD SHALL HAVE 3/8" F.I.P. THREADS ON THE INLET. THE ENTIRE UNIT HAS A LIGATURE-RESIS-TANT ROUNDED AND TAPERED DESIGN.

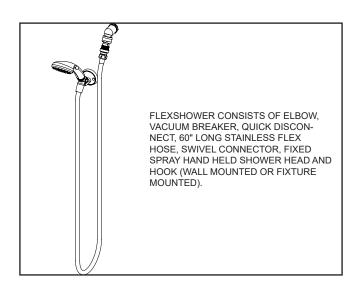
(CSH) LIGATURE-RESISTANT SHOWER HEAD



SHOWER HEAD IS FIXED TYPE. CONSTRUCTED FROM CHROME-PLATED DIE CAST, MOUNTED FROM THE REAR WITH NO VISIBLE FASTENERS, AND SHALL HAVE A 30° ANGLE OF SPRAY WITH A MAXIMUM FLOW RATE OF 2.0 GPM. THE HEAD SHALL HAVE 3/8" F.I.P. THREADS ON THE INLET. THE ENTIRE UNIT HAS A LIGATURE-RESISTANT ROUNDED AND TAPERED DESIGN.

(LRSH) LIGATURE-RESISTANT HIGH EFFICIENCY SHOWER HEAD

(LBJ) LOCKABLE BALL JOINT SHOWER HEAD



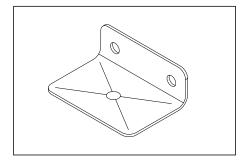
(FX) FLEXSHOWER HEAD

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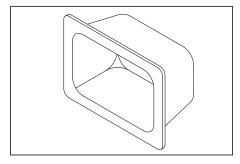
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WILLOUGHRY

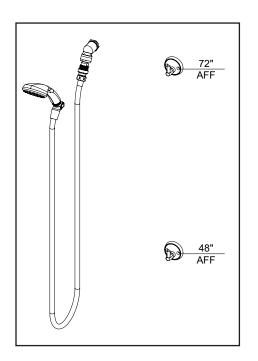
OTHER SHOWER OPTIONS



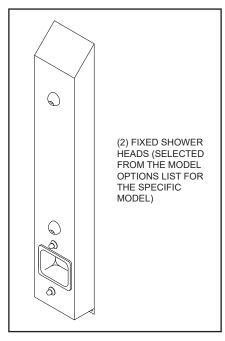
(SD) SURFACE MOUNTED SOAP DISH



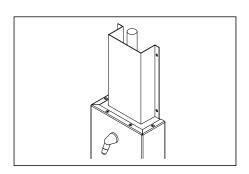
(RD) RECESSED SOAP DISH



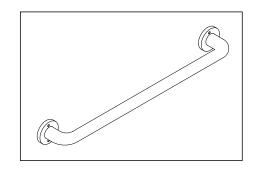
(HL) HI-LO (2 MOUNTING HOOKS FOR FLEXSHOWER)



(2HD) DUAL FIXED SHOWER HEADS



(PS) PIPE SHROUD FOR STANDARD UNITS CONCEALS TOP SUPPLY PIPING

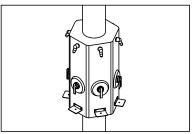


(GB____) GRAB BAR (SPECIFY DIMENSIONS)



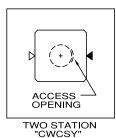
COLUMN SHOWER OPTIONS

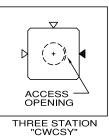
BASE MODEL NUMBER



"CWCSY" COLUMN SHOWER

NUMBER OF STATIONS









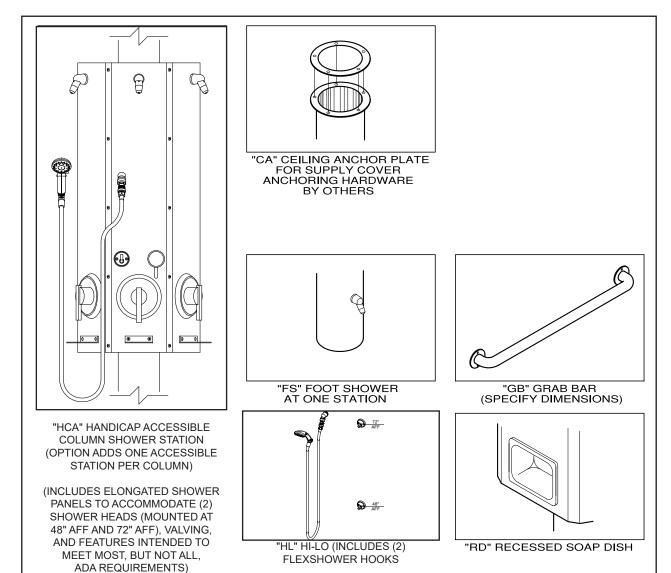


◀INDICATES THE NUMBER ONE SHOWER STATION. ACCESS OPENING AND IDENTIFICATION NOTCH ON DRAIN ARE LOCATED ON THE VERTICAL CENTERLINE OF THE NUMBER ONE STATION. COUNT CLOCKWISE TO IDENTIFY OTHER STATIONS.

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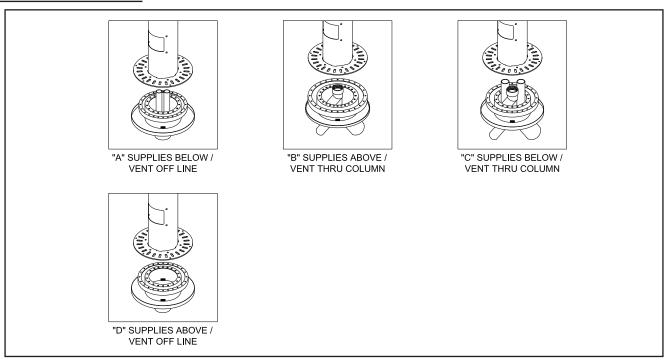
COLUMN SHOWER OPTIONS (CONT.)



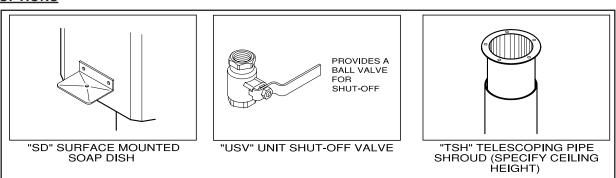


COLUMN SHOWER OPTIONS (CONT.)

SUPPLY AND DRAIN TYPE

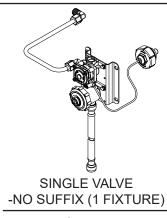


OTHER OPTIONS



SHOWER VALVE MANIFOLDING OPTION

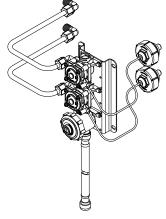




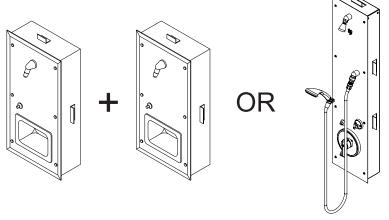
Used for (1) Single shower head fixture:



Used for (2) Single shower head fixtures (Single Temp.) OR (1) Dual shower head fixture (Single Temp.):



DUAL MANIFOLD VALVE -(MA2) (2 FIXTURES)



VALVE MANIFOLDING

"MANIFOLDING"

Willoughby suffix (MA2) allows for the operation of two shower valve assemblies, either (2) single shower head fixtures or (1) two shower head fixture from a common pair of Hot/Cold supply lines.

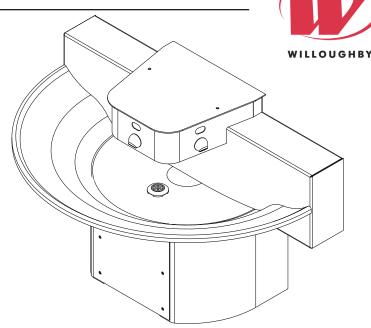
PRIMARY ADVANTAGES

- Reduces installation costs, labor, and materials
- Easier access for maintenance
- Adds flexibility and simplicity to your shower design needs

To specify: add suffix (MA2) to the selected valve model number. If manifolding (2) single shower head fixtures, be sure to specify this to your sales representative when placing your order.



WWF-3603 Three Station Half Round 36" Stainless Steel **Deep Bowl Washfountain**





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a 3 Station Half Round 36" Stainless Steel, Deep Bowl Washfountain with standard wall mounting (34" rim height) and hard-wired infrared sensors

Use the following Willoughby Model Number:

WWF-3603-WALL-IR

Recommended Specifications

Half Round 36" Stainless Steel, Deep Bowl Washfountain shall be: Willoughby Model No. WWF-3603 (select from model number and options list on next page)

Washfountain shall accommodate from 1 to 3 users simultaneously for the 3 station. Washfountain bowl is constructed of 12 GA. stainless steel. Pedestal and water distribution head shall be constructed of heavy gauge, Type 304 stainless steel. Head cover is constructed of Aquasurf® solid surface material (Grey Granite color). Exposed stainless steel surfaces shall be polished to a #3 satin finish.

The push buttons and water spray nozzles shall be machined Type 303 stainless steel. Drain grate shall be constructed of heavy gauge stainless steel. The sprayhead module shall be equipped with independent spray nozzles; each controlled by a separate push button or infrared sensor. Flow restrictor shall maintain flow rates at 0.5 GPM per station.

All washfountains shall be supplied with thermostatic mixing valves, checkstops and strainers, drain spud, flexible supply hoses, control valves, color coded water lines and Class II. 120/24 VAC plug-in transformer (as needed)*. Operating supply water pressure range is 35-70 PSI.

Vandal resistance:

All spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the sprayhead. Valves, water supplies and waste connections are concealed within the pedestal. Removable access panels are secured with vandal resistant security Torx screws. Unit is shipped pre-assembled.

ADA, TAS, and ANSI Compliant:

When the washfountain is mounted at the standard 34" adult rim height it is designed to comply with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

This excludes Floor Mounted (FLR) and Floor Mounted Foot Operated (FO) models.

Optional Features:

Willoughby washfountains offer liquid soap dispensers and a stainless steel head cover as optional accessories. Willoughby washfountains can be ordered with 31" rim heights for juvenile use (JR). A wall mounted stainless steel kick plate (KPWF) is available for wall-mounted pedestals w/ floor-based rough-ins.

Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.



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1.) Base Model Number: ☐ WWF-3603 3 Station Half Round 36" Stainless Steel. Deep Bowl Washfountain 2.) Pedestal Mounting: ■ WALL Wall Mounted (Standard) ☐ FLR Floor Mounted (Not ADA Compliant) 3.) Junior Height Option: Junior Height (31" Rim Height, ADA Compliant) □ JR 4.) Valve Actuation: ■ PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering Valves □ PZPB1 Ligature-resistant Piezo Electronic Push Buttons for Single Temperature Electronic Valves (w/ Pneutronic Control)*/** □ IR Infrared Sensors, Plug-in* □ во Infrared Sensors, Battery Operated

(Not ADA Compliant, Requires FLR Floor Mounted Pedestal)

Foot Operated Pneumatic Push Buttons

		•	
5.)	Other	Options:	

☐ LSD Liquid Soap Dispensers (2)

☐ TL
 ☐ SSC
 ☐ KPWF
 Less In-line Thermostatic Mixing Valve
 ☐ Stainless Steel Head Cover (Top Cap)
 ☐ Wall Mounted Stainless Steel Kick Plate

(For wall-mounted pedestal only)□ LSH1.5 gpm Laminar Flow Sprayheads

☐ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

**LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

Approved For Manufacturing By: ___ ____ Company:_ Wall Type: Wall Thickness: __ 36" IN COMPLIANCE WITH A.D.A. 2010 4 3/4" NOTE: ROUGH-IN DIMENSIONS ARE FOR A RIM HEIGHT OF 34" A.F.F. ADJUST DIMENSIONS 22 3/4" ACCORDINGLY FOR ALTERNATE RIM HEIGHT VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION Ø1-1/2" DRAIN Ø1/2" H & C SUPPLY (BY OTHERS) REMOVABLE HEAD COVER (TOP CAP) 0 40 3/8" 110V GFCI 38" 34" OUTLET 24" 20 1/2" 20 1/4"-17 1/4" FINISHED FLOOR WALL MOUNTED ROUGH-IN SHOWN; FOR FLOOR MOUNTED ROUGH-IN, **CONTACT FACTORY**

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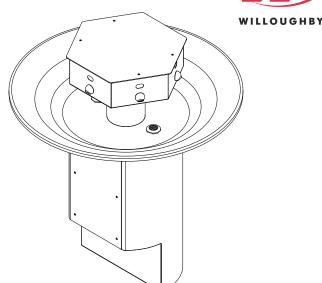
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☐ FO



WWF-3606 Six Station **Full Round** 36" Stainless Steel **Deep Bowl Washfountain**





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a 6 Station Full Round, 36" Stainless Steel, Deep Bowl Washfountain with standard floor mounting (34" rim height), hard-wired infrared sensors, and supplies from below

Use the following Willoughby Model Number:

WWF-3606-FLR-IR-SB

Recommended Specifications

Full Round, 36" Stainless Steel, Deep Bowl Washfountain shall be: Willoughby Model No. WWF-3606 (select from model number and options list on next page)

Washfountain shall accommodate from 1 to 6 users simultaneously. Washfountain bowl is constructed of 12 GA. stainless steel. Pedestal and water distribution head shall be constructed of heavy gauge, Type 304 stainless steel. Head cover shall be constructed of Aquasurf® solid surface material (Grey Granite color). Exposed stainless steel surfaces shall be polished to a #3 satin finish.

The push buttons and water spray nozzles shall be machined Type 303 stainless steel. Drain grate shall be constructed of heavy gauge stainless steel. The sprayhead module shall be equipped with independent spray nozzles; each controlled by a separate push button or infrared sensor. Flow restrictor shall maintain flow rates at 0.5 GPM per station.

All washfountains shall be supplied with thermostatic mixing valves, checkstops and strainers, drain spud, flexible supply hoses, control valves, color coded water lines and Class II, 120/24 VAC plug-in transformer (as needed)*. Operating supply water pressure range is 35-70 PSI.

Vandal resistance:

All spray nozzles, push buttons, infrared sensors and escutcheons are secured to the unit from within the sprayhead. Valves, water supplies and waste connections are concealed within the pedestal. Removable access panels are secured with vandal resistant security Torx screws. Unit is shipped pre-assembled.

ADA, TAS, and ANSI Compliant:

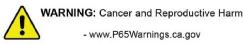
At the standard 34" adult rim height, one (1) station is designed to comply with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines. The other (5) stations will comply with most, but not all, accessibility guidelines.

This excludes Floor Mounted Foot Operated (FO) models.

Optional Features:

Willoughby washfountains offer liquid soap dispensers and a stainless steel head cover as optional accessories. washfountains can be ordered with 31" rim heights for juvenile use (JR) (Junior ADA Compliant).

* Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.



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5.) Water Supply: 1.) Base Model Number: ☐ SB ☐ WWF-3606 6 Station Full Round 36" Stainless Steel. Supply From Below (Standard) Deep Bowl Washfountain ☐ SA Supply From Above (Option (TSHWF) recommended) 2.) Pedestal Mounting: 6.) Other Options: ☐ FLR Floor Mounted (Standard) ☐ LSD Liquid Soap Dispensers (2) ☐ TL Less In-line Thermostatic Mixing Valve 3.) Junior Height Option: ☐ SSC Stainless Steel Head Cover (Top Cap) Junior Height (31" Rim Height, JR. ADA Compliant) ■ TSHWF Telescoping Washfountain Shroud (For use on (SA) models only) ☐ LSH 1.5 gpm Laminar Flow Sprayheads 4.) Valve Actuation: Standard Pneumatic Push Buttons for Single Other ☐ PPB1 Other Temperature Pneumatic Metering Valves □ PZPB1 Ligature-resistant Piezo Electronic Push Buttons for Single *(Req. 110V power through ground fault interrupter (GFCI) receptacle) Temperature Electronic Valves (w/ Pneutronic Control)*/** □ IR Infrared Sensors, Plug-in* **LIGATURE-RESISTANT DISCLAIMER Infrared Sensors, Battery Operated □ во This product is designed to minimize ligature points. While every effort has ☐ FO Foot Operated Pneumatic Push Buttons (Not ADA Compliant) been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: ___ Date: _____ Company: _ Wall Type: Wall Thickness: __ IN COMPLIANCE 1/2" HOT & COLD-WITH A.D.A. 2010 WATER SUPPLY (FROM BELOW, BY OTHERS) 1/2" HOT & COLD WATER SUPPLY (FROM ABOVE, VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN 0 WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION. 3 1/2' BY OTHERS) 15 1/2" 2" DRAIN STUB 2" DRAIN STUB 3" ABOVE FLOOR 3" ABOVE FLOOR 3 1/2"-(FROM BELOW) (FROM BELOW) -VENT TO CEILING (FROM ABOVE) **ROUGH-IN ROUGH-IN** WITH SUPPLIES FROM ABOVE WITH SUPPLIES FROM BELOW REMOVABLE HEAD COVER (TOP CAP) 36" 5 3/16" 0 5" DEEP -15 1/2"-**BOWL** 34" 42 1/2" (MAX **ADULT** 10"

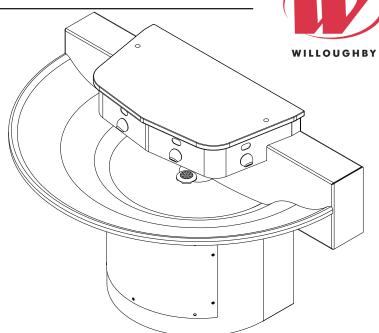
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ADA)

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WWF-4203/4204 Three and Four Station **Half Round** 42" Stainless Steel **Deep Bowl Washfountain**



IN COMPLIANCE WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a 4 Station Half Round, 42" Stainless Steel, Deep Bowl Washfountain with standard wall mounting (34" rim height) and battery operated infrared sensors

Use the following Willoughby Model Number:

WWF-4204-WALL-BO

Recommended Specifications

Half Round, 42" Stainless Steel, Deep Bowl Washfountain shall be: Willoughby Model No. WWF-420 (select from model number and options list on next page)

Washfountain shall accommodate from 1 to 3 users simultaneously for the 3 station or 1 to 4 users simultaneously for the 4 station. Washfountain bowl is constructed of 12 GA. stainless steel. Pedestal and water distribution head shall be constructed of heavy gauge, Type 304 stainless steel. Head cover is constructed of Aquasurf® solid surface material (Grey Granite color). Exposed stainless steel surfaces shall be polished to a #3 satin finish.

The push buttons and water spray nozzles shall be machined Type 303 stainless steel. Drain grate shall be constructed of heavy gauge stainless steel. The sprayhead module shall be equipped with independent spray nozzles; each controlled by a separate push button or infrared sensor. Flow restrictor shall maintain flow rates at 0.5 GPM per station.

All washfountains shall be supplied with thermostatic mixing valves, checkstops and strainers, drain spud, flexible supply hoses, control valves, color coded water lines and Class II, 120/24 VAC plug-in transformer (as needed)*. Operating supply water pressure range is 35-70 PSI.

Vandal resistance:

All spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the sprayhead. Valves, water supplies and waste connections are concealed within the pedestal. Removable access panels are secured with vandal resistant security Torx screws. Unit is shipped pre-assembled.

ADA, TAS, and ANSI Compliant:

When the washfountain is mounted at the standard 34" adult rim height, it is designed to comply with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

This excludes Floor Mounted Foot Operated (FO) models.

Optional Features:

Willoughby washfountains offer liquid soap dispensers and a stainless steel head cover as optional accessories. washfountains can be ordered with 31" rim heights for juvenile use (JR) (Junior ADA Compliant). A wall mounted stainless steel kick plate (KPWF) is available for wall-mounted pedestals w/ floorbased plumbing rough-ins.

* Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.



WARNING: Cancer and Reproductive Harm

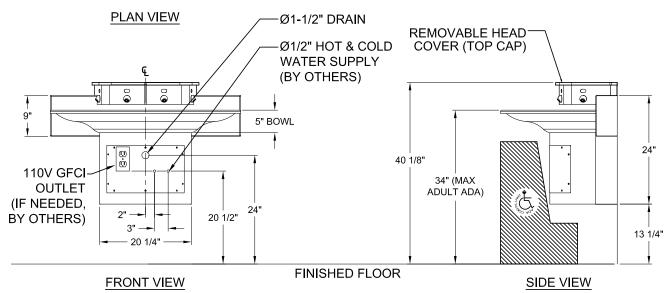
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MODEL NUMBER AND OPTIONS: 1.) Base Model Number: 5.) Other Options: ☐ LSD ☐ WWF-4203 3 Station Half Round 42" Stainless Steel. Liquid Soap Dispensers (2) Deep Bowl Washfountain □ TL Less In-line Thermostatic Mixing Valve ■ WWF-4204 4 Station Half Round 42" Stainless Steel, ☐ SSC Stainless Steel Head Cover (Top Cap) Deep Bowl Washfountain ☐ KPWF Wall Mounted Stainless Steel Kick Plate (For wall-mounted pedestal only) LSH 1.5 gpm Laminar Flow Sprayheads 2.) Pedestal Mounting: ■ WALL Wall Mounted (Standard) Other ☐ FLR Floor Mounted Other 3.) Junior Height Option: *(Req. 110V power through ground fault interrupter (GFCI) receptacle) Junior Height (31" Rim Height, Wall Mounted JR. ADA Compliant; **LIGATURE-RESISTANT DISCLAIMER Floor Mounted Not ADA Compliant) This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not 4.) Valve Actuation: eliminate all risks. Ligature-Resistant products by Willoughby Industries are ☐ PPB1 Standard Pneumatic Push Buttons for Single to be used in conjunction with, not as a replacement for, trained Temperature Pneumatic Metering Valves Ligature-resistant Piezo Electronic Push Buttons for Single professionals. □ PZPB1 Temperature Electronic Valves (w/ Pneutronic Control)*/** ☐ IR Infrared Sensors, Plug-in* □ во Infrared Sensors, Battery Operated ☐ FO Foot Operated Pneumatic Push Buttons (Not ADA Compliant, Requires FLR Floor Mounted Pedestal) Approved For Manufacturing By: ___ Date: _____ Company: _ Wall Type: Wall Thickness: __ IN COMPLIANCE WALL MOUNTED ROUGH-IN WITH A.D.A. 2010 SHOWN: FOR FLOOR MOUNTED ROUGH-IN, CONTACT FACTORY VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION NOTE: 25 3/4' ROUGH-IN DIMENSIONS ARE FOR A RIM HEIGHT OF 34" A.F.F. ADJUST DIMENSIONS ACCORDINGLY FOR ALTERNATE RIM HEIGHT. **PLAN VIEW** Ø1-1/2" DRAIN REMOVABLE HEAD Ø1/2" HOT & COLD COVER (TOP CAP) WATER SUPPLY (BY OTHERS) 0

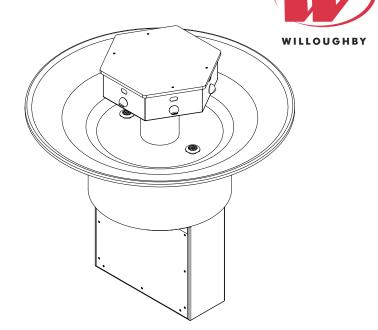


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WWF-4206 Six Station **Full Round** 42" Stainless Steel **Deep Bowl Washfountain**





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a 6 Station Full Round, 42" Stainless Steel, Deep Bowl Washfountain with standard floor mounting (34" rim height), battery operated infrared sensors, and supplies from below

Use the following Willoughby Model Number:

WWF-4206-FLR-BO-SB

Recommended Specifications

Full Round, 42" Stainless Steel, Deep Bowl Washfountain shall be: Willoughby Model No. WWF-4206 (select from model number and options list on next page)

Washfountain shall accommodate from 1 to 6 users simultaneously. Washfountain bowl is constructed of 12 GA. stainless steel. Pedestal and water distribution head shall be constructed of heavy gauge, Type 304 stainless steel. Head cover shall be constructed of Aquasurf® solid surface material (Grey Granite color). Exposed stainless steel surfaces shall be polished to a #3 satin finish.

The push buttons and water spray nozzles shall be machined Type 303 stainless steel. Drain grate shall be constructed of heavy gauge stainless steel. The sprayhead module shall be equipped with independent spray nozzles; each controlled by a separate push button or infrared sensor. Flow restrictor shall maintain flow rates at 0.5 GPM per station.

All washfountains shall be supplied with thermostatic mixing valves, checkstops and strainers, drain spud, flexible supply hoses, control valves, color coded water lines and Class II, 120/24 VAC plug-in transformer (as needed)*. Operating supply water pressure range is 35-70 PSI.

Vandal resistance:

All spray nozzles, push buttons, infrared sensors and escutcheons are secured to the unit from within the sprayhead. Valves, water supplies and waste connections are concealed within the pedestal. Removable access panels are secured with vandal resistant security Torx screws. Unit is shipped pre-assembled.

ADA, TAS, and ANSI Compliant:

At the standard 34" adult rim height, two (2) stations are designed to comply with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines. The other (4) stations will comply with most, but not all, accessibility guidelines.

This excludes Floor Mounted Foot Operated (FO) models.

Optional Features:

Willoughby washfountains offer liquid soap dispensers and a stainless steel head cover as optional accessories. washfountains can be ordered with 31" rim heights for juvenile use (JR) (Junior ADA Compliant).

* Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.



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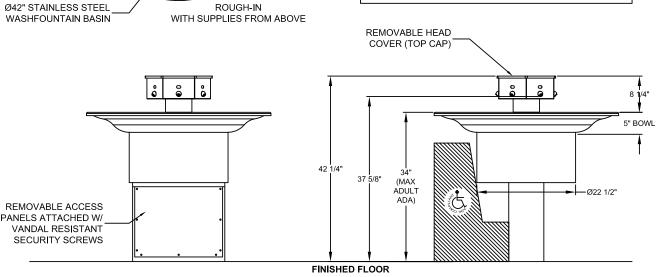
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MODEL NUMBER AND OPTIONS: 1.) Base Model Number: 5.) Water Supply: ☐ SB ☐ WWF-4206 6 Station Full Round 42" Stainless Steel. Supply From Below (Standard) Deep Bowl Washfountain ☐ SA Supply From Above (Option (TSHWF) recommended) 2.) Pedestal Mounting: 6.) Other Options: ☐ FLR Floor Mounted (Standard) ☐ LSD Liquid Soap Dispensers ☐ TL Less In-line Thermostatic Mixing Valve 3.) Junior Height Option: ☐ SSC Stainless Steel Head Cover (Top Cap) Junior Height (31" Rim Height, not ADA Compliant) ■ TSHWF Telescoping Washfountain Shroud (For use on (SA) models only) 4.) Valve Actuation: ☐ LSH 1.5 gpm Laminar Flow Sprayheads ■ PPB1 Standard Pneumatic Push Buttons for Single Other Temperature Pneumatic Metering Valves Other □ PZPB1 Ligature-resistant Piezo Electronic Push Buttons for Single Temperature Electronic Valves (w/ Pneutronic Control)*/** *(Req. 110V power through ground fault interrupter (GFCI) receptacle) ☐ IR Infrared Sensors, Plug-in* **LIGATURE-RESISTANT DISCLAIMER □ во Infrared Sensors, Battery Operated Foot Operated Pneumatic Push Buttons (Not ADA Compliant) This product is designed to minimize ligature points. While every effort has ☐ FO been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: ___ _____ Company:_ Wall Type: Wall Thickness: _ 1/2" H & C SUPPLY 2" DRAIN STUB TO (FROM ABOVE, 3" ABOVE FLOOR (FROM BELOW) BY OTHERS) 1/2" H & C SUPPLY (FROM BELOW, BY OTHERS) 4" 2" DRAIN STUB TO 3" ABOVE FLOOR (FROM BELOW) **ROUGH-IN** VENT TO CEILING WITH SUPPLIES FROM BELOW

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT PORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.

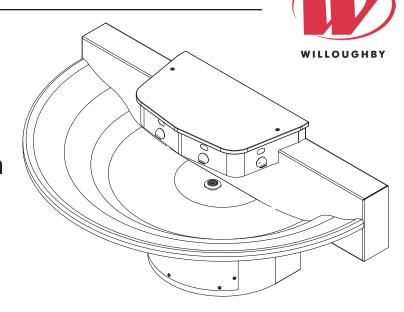


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WWF-5403/5404 Three and Four Station **Half Round** 54" Stainless Steel **Deep Bowl Washfountain**





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a 4 Station Half Round, 54" Stainless Steel, Deep Bowl Washfountain with standard wall mounting (34" rim height) and hard-wired infrared sensors

Use the following Willoughby Model Number:

WWF-5404-WALL-IR

Recommended Specifications

Half Round, 54" Stainless Steel, Deep Bowl Washfountain shall be: Willoughby Model No. WWF-540_ (select from model number and options list on next page)

Washfountain shall accommodate from 1 to 3 users simultaneously for the 3 station or 1 to 4 users simultaneously for the 4 station. Washfountain bowl is constructed of 12 GA. stainless steel. Pedestal and water distribution head shall be constructed of heavy gauge, Type 304 stainless steel. Head cover is constructed of Aquasurf® solid surface material (Grey Granite color). Exposed stainless steel surfaces shall be polished to a #3 satin finish.

The push buttons and water spray nozzles shall be machined Type 303 stainless steel. Drain grate shall be constructed of heavy gauge stainless steel. The sprayhead module shall be equipped with independent spray nozzles; each controlled by a separate push button or infrared sensor. Flow restrictor shall maintain flow rates at 0.5 GPM per station.

All washfountains shall be supplied with thermostatic mixing valves, checkstops and strainers, drain spud, flexible supply hoses, control valves, color coded water lines and Class II, 120/24 VAC plug-in transformer (as needed)*. Operating supply water pressure range is 35-70 PSI.

Vandal resistance:

All spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the sprayhead. Valves, water supplies and waste connections are concealed within the pedestal. Removable access panels are secured with vandal resistant security Torx screws. Unit is shipped pre-assembled.

ADA, TAS, and ANSI Compliant:

When the washfountain is mounted at the standard 34" adult rim height, it is designed to comply with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

This excludes Floor Mounted Foot Operated (FO) models.

Optional Features:

Willoughby washfountains offer liquid soap dispensers and a stainless steel head cover as optional accessories. washfountains can be ordered with 31" rim heights for juvenile use (JR) (Junior ADA Compliant). A wall mounted stainless steel kick plate (KPWF) is available for wall-mounted pedestals w/ floorbased plumbing rough-ins.

* Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.



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MODEL NUMBER AND OPTIONS: 1.) Base Model Number: 5.) Other Options: ☐ LSD ☐ WWF-5403 3 Station Half Round 54" Stainless Steel. Liquid Soap Dispensers (2) Deep Bowl Washfountain ☐ TL Less In-line Thermostatic Mixing Valve ■ WWF-5404 4 Station Half Round 54" Stainless Steel, ☐ SSC Stainless Steel Head Cover (Top Cap) Deep Bowl Washfountain ☐ KPWF Wall Mounted Stainless Steel Kick Plate (For wall-mounted pedestal only) ☐ LSH 1.5 gpm Laminar Flow Sprayheads 2.) Pedestal Mounting: ■ WALL Wall Mounted (Standard) Other ☐ FLR Floor Mounted Other 3.) Junior Height Option: *(Req. 110V power through ground fault interrupter (GFCI) receptacle) Junior Height (31" Rim Height, JR. ADA Compliant) **LIGATURE-RESISTANT DISCLAIMER This product is designed to minimize ligature points. While every effort has 4.) Valve Actuation: been made to reduce the possibility of ligature points, this product does not ☐ PPB1 Standard Pneumatic Push Buttons for Single eliminate all risks. Ligature-Resistant products by Willoughby Industries are Temperature Pneumatic Metering Valves to be used in conjunction with, not as a replacement for, trained Ligature-resistant Piezo Electronic Push Buttons for Single □ PZPB1 Temperature Electronic Valves (w/ Pneutronic Control)*/** professionals. ☐ IR Infrared Sensors, Plug-in* Infrared Sensors, Battery Operated □ во ☐ FO Foot Operated Pneumatic Push Buttons (Not ADA Compliant, Requires FLR Floor Mounted Pedestal) Approved For Manufacturing By: __ _____ Company:_ Wall Type: Wall Thickness: __ 4 3/4" IN COMPLIANCE WITH A.D.A. 2010 31 3/4 ROUGH-IN DIMENSIONS ARE FOR VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION RIM HEIGHT 34" AFF. ADJUST DIMENSIONS ACCORDINGLY FOR ALTERNATE RIM HEIGHT. 110V GFCI OUTLET Ø1-1/2" DRAIN Ø1/2" H & C SUPPLY (BY OTHERS) REMOVABLE HEAD COVER (TOP CAP) 10 7/8"

WALL MOUNTED ROUGH-IN SHOWN FOR FLOOR MOUNTED ROUGH-IN CONTACT FACTORY

20 1/4"

0

24

19 1/2"



14 1/2"

20 1/2"

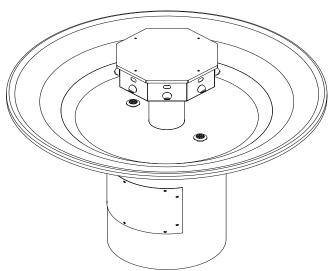
34" (MAX ADULT ADA)

FINISHED FLOOR

40 1/2"



WWF-5406/5408 Six and Eight Station **Full Round** 54" Stainless Steel **Deep Bowl Washfountain**





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an 8 Station Full Round, 54" Stainless Steel, Deep Bowl Washfountain with standard floor mounting (34" rim height), hard-wired infrared sensors, and supplies from below

Use the following Willoughby Model Number:

WWF-5408-FLR-IR-SB

Recommended Specifications

Full Round, 54" Stainless Steel, Deep Bowl Washfountain shall be: Willoughby Model No. WWF-540 (select from model number and options list on next page)

Washfountain shall accommodate from 1 to 6 users simultaneously for the 6 station or 1 to 8 users simultaneously for the 8 station. Washfountain bowl is constructed of 12 GA. stainless steel. Pedestal and water distribution head shall be constructed of heavy gauge, Type 304 stainless steel. Head cover shall be constructed of Aguasurf® solid surface material (Grey Granite color). Exposed stainless steel surfaces shall be polished to a #3 satin finish.

The push buttons and water spray nozzles shall be machined Type 303 stainless steel. Drain grate shall be constructed of heavy gauge stainless steel. The sprayhead module shall be equipped with independent spray nozzles; each controlled by a separate push button or infrared sensor. Flow restrictor shall maintain flow rates at 0.5 GPM per station.

All washfountains shall be supplied with thermostatic mixing valves, checkstops and strainers, drain spud, flexible supply hoses, control valves, color coded water lines and Class II, 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 35-70 PSI.

Vandal resistance:

All spray nozzles, push buttons, infrared sensors and escutcheons are secured to the unit from within the sprayhead. Valves, water supplies and waste connections are concealed within the pedestal. Removable access panels are secured with vandal resistant security Torx screws. Unit is shipped pre-assembled.

ADA, TAS, and ANSI Compliant:

At the standard 34" adult rim height, all stations are comply with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

This excludes Floor Mounted Foot Operated (FO) models.

Optional Features:

Willoughby washfountains offer liquid soap dispensers and a stainless steel head cover as optional accessories. washfountains can be ordered with 31" rim heights for juvenile use (JR) (Junior ADA Compliant).

* Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.



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1.) Base Model Number: 5.) Water Supply: ☐ SB ☐ WWF-5406 6 Station Full Round 54" Stainless Steel. Supply From Below (Standard) Deep Bowl Washfountain ☐ SA Supply From Above (Option (TSHWF) recommended) ■ WWF-5408 8 Station Full Round 54" Stainless Steel, Deep Bowl Washfountain 6.) Other Options: ☐ LSD Liquid Soap Dispensers (2) ☐ TL Less In-line Thermostatic Mixing Valve 2.) Pedestal Type: ☐ FLR Floor Mounted (Standard) ☐ SSC Stainless Steel Head Cover (Top Cap) ■ TSHWF Telescoping Washfountain Shroud (For use on (SA) models only) 3.) Junior Height Option: Junior Height (31" Rim Height, JR. ADA Compliant) ☐ LSH 1.5 gpm Laminar Flow Sprayheads Other 4.) Valve Actuation: Other ☐ PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering Valves *(Req. 110V power through ground fault interrupter (GFCI) receptacle) □ PZPB1 Ligature-resistant Piezo Electronic Push Buttons for Single **LIGATURE-RESISTANT DISCLAIMER Temperature Electronic Valves (w/ Pneutronic Control)*/** ☐ IR This product is designed to minimize ligature points. While every effort has Infrared Sensors, Plug-in* Infrared Sensors, Battery Operated been made to reduce the possibility of ligature points, this product does not □ во ☐ FO Foot Operated Pneumatic Push Buttons (Not ADA Compliant) eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: ___ Date: _____ Company: _ Wall Type: Wall Thickness: _ Ø2" DRAIN, STUB IN COMPLIANCE 3" ABOVE FLOOR WITH A.D.A. 2010 (FROM BELOW) 1/2" HOT & COLD-WATER SUPPLY (FROM BELOW. BY OTHERS) VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION 0.0 0.0 اًــ_{"2 3/8} Ø2" DRAIN, STUB 3" ABOVE FLOOR (FROM BELOW) ROUGH-IN 1/2" HOT & COLD 54" ROUND 12 GA. S/S WITH SUPPLIES FROM BELOW WATER SUPPLY WASHFOUNTAIN BASIN (FROM ABOVE VENT TO CEILING (FROM ABOVE) BY OTHERS) **ROUGH-IN** WITH SUPPLIES FROM ABOVE REMOVABLE HEAD COVER (TOP CAP) 6 1/2 12" x 14" REMOVABLE 42 1/2" 34' ACCESS PANEL W/ (MAX VANDAL RESISTANT ADULT SECURITY SCREWS 27 1/2" ADA) 14 GA, S/S BASE

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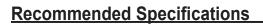
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FINISHED FLOOR

MADE IN THE U.S.A.

CEL-2817-2 / 4818-3 Multi-station Stainless Steel Lavatory





Multi-station, Stainless Steel Lavatory shall be:
Willoughby Model No. CEL-____
(select from model number and options list on next page)

Lavatory shall accommodate from 1 to 2 users simultaneously for the 2 station or 1 to 3 users simultaneously for the 3 station. Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction is all welded (excluding removable stainless steel shroud), with exposed stainless steel surfaces polished to a #3 satin finish.

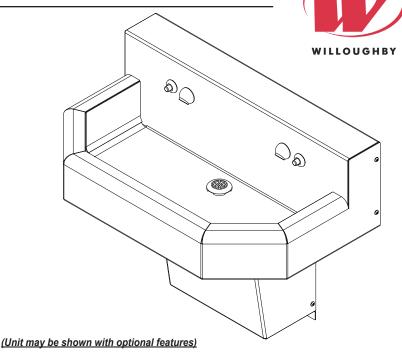
Standard lavatory shall include:

- Integrally welded 4-1/2" deep lavatory basin
- Stainless steel spray nozzles with 0.5 GPM flow restrictors
- Machined stainless steel drain w/ tailpiece
- Stainless steel trap enclosure/pipe shroud

All lavatories shall be supplied with thermostatic mixing valves, checkstops and strainers, flexible supply hoses, control valves, color coded water lines and Class II, 120/24 VAC plug-in transformers (as needed)*.

Vandal resistance:

All spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the sprayhead. Valves, water supplies and waste connections are concealed within the pedestal. Removable access panels are secured with vandal resistant security Torx screws. Unit is shipped pre-assembled.



To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Multi-station, Stainless Steel Lavatory with 2 stations, and hard-wired infrared sensors

Use the following Willoughby Model Number:

CEL-2817-2-IR

Mounting:

Anchoring shall be from the front with 'z' clip and anchoring holes provided. Anchoring hardware by others. Wall requires adequate backing to support lavatory. Unit requires no chase area for installation and maintenance.

ADA, TAS, and ANSI Compliant:

When the lavatory is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines. Lavatory can be ordered with 31" rim height for juvenile use (JR).

* <u>Note:</u> Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.



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1.) Base Model Number:

☐ CEL-2817-2 CEL-Series 2 Station Lavatory, 28" Width ☐ CEL-4818-3 CEL-Series 3 Station Lavatory, 48" Width

2.) Valve Actuation:

☐ PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering Valves

☐ PZPB1 Ligature-resistant Piezo Electronic Push Buttons for Single

Temperature Electronic Valves (w/ Pneutronic Control)*/**

☐ IR Infrared Sensors, Plug-in*

☐ BO Infrared Sensors, Battery Operated

3.) Other Options:

☐ TL Less In-line Thermostatic Mixing Valve

■ LE Less Trap Enclosure

☐ DC Decorator Color (Fixture exterior only - White)

LSH 1.5 gpm Laminar Flow Sprayheads
Other

Other ____

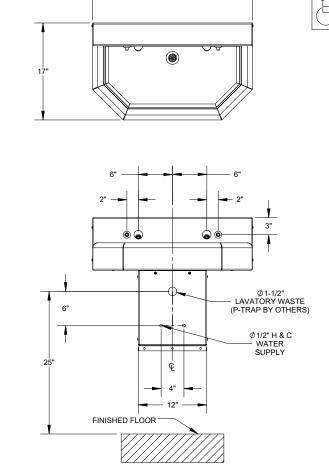
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

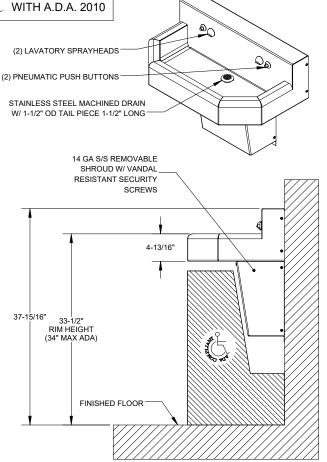
**LIGATURE-RESISTANT DISCLAIMER

IN COMPLIANCE

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____





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WELS-2230 Envy Series Single Station Solid Surface Lavatory System

(Unit may be shown with optional features)

IN COMPLIANCE

WITH A.D.A. 2010

PATENTED: D804,621 S

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an Envy Series Single Station Solid Surface Lavatory System with standard wall mounting (34" rim height), one set of 1" Center Shank faucet hole, in White Granite color

Use the following Willoughby Model Number: WELS-2230-WALL-1CC-WG

Recommended Specifications

Envy Series Single Station Solid Surface Lavatory System shall be: Willoughby Model No. **WELS-2230** (select from model number and options list on next page)

Envy Single Station Solid Surface Lavatory System shall accommodate 1 user. The single-piece lavatory bowl is constructed of Aquasurf® molded cast polymer densified solid surface material, composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive*.

Wall-mounted pedestal shall be fabricated entirely from T304 stainless steel, and will feature a removable shroud access panel for ease of fixture installation and maintenance. Included drain grate shall be constructed of heavy gauge stainless steel, and will secure directly to the drain assembly. All exposed stainless steel surfaces shall be polished to a #4 satin finish.

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.

Vandal resistance:

Valves, water supplies, and waste connections (all provided by others) are concealed within the pedestal. Removable stainless steel access panel is secured with vandal-resistant security screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA and ANSI Compliant:

The lavatory is designed to comply with all applicable ADA and ANSI Z124.3 and Z124.6 accessibility guidelines, whether mounted at standard adult rim height (34" Max A.F.F.) or (JR) junior height (31" Max A.F.F.)

Optional Features:

Envy Lavatory Systems offer a wall mounted stainless steel kick plate (KPWV) for installations with floor-based plumbing rough-ins.



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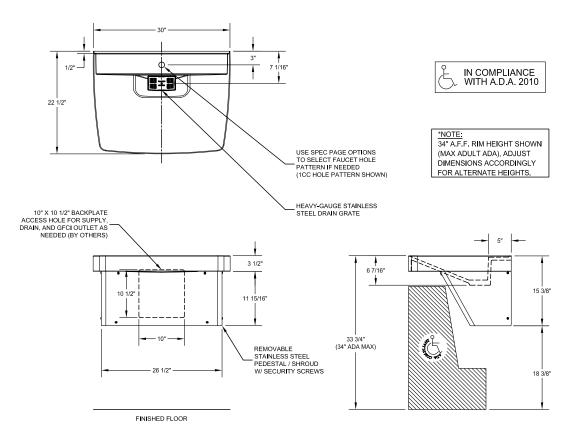
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1.) Washfou	ntain Model:	5.) Solid Si	urface Colors:
☐ WELS-22	230 Envy Series Single Station Solid Surface Lavatory System	■ BN	Bone
		☐ GW	Glacier White
2.) Pedestal	Type:	☐ GG	Grey Granite
■ WALL	Wall Mounted, Low-profile, All-Stainless Steel Shroud (Standard)	□ SS	Sandstone
		■ WG	White Granite
3.) Junior H	eight Option:	□ BG	Black Granite
□ JR	Junior Height (31" Rim Height, JR. ADA Compliant)	■ NB	Nocturnal Blue
		□ RC	Red Coral
4.) Faucet D	rilling:	□ SG	Sea Green
☐ NV	No Valve, No Faucet Holes (Standard)		
☐ 4CC	Set of 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:)	6.) Other O	ptions:
■ 8CC	Set of 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:)	☐ KPWV	Wall Mounted Stainless Steel Kick Plate
☐ 1CC	Center Shank, (1) Ø1-1/4" Hole	Other	
☐ SP	Special Drilling (Specify hole diameter and dimensions)	Other	
	SP:		

PATENTED: D804,621 S

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		



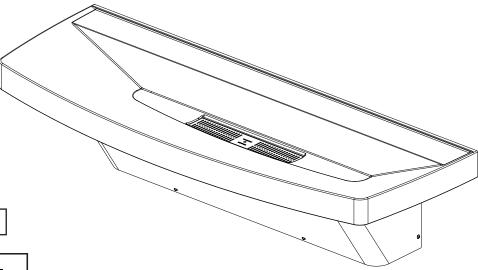


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WELS-2260 Envy Series Two Station Solid Surface Lavatory System



PATENTED: D803,996 S



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an Envy Series Two Station Solid Surface Lavatory System with standard wall mounting (34" rim height), two sets of 1" Center Shank faucet holes, in White Granite color

Use the following Willoughby Model Number: WELS-2260-WALL-1CC-WG

Recommended Specifications

Envy Series Two Station Solid Surface Lavatory System shall be: Vandal resistance: Willoughby Model No. WELS-2260 (select from model number and options list on next page)

Envy Two Station Solid Surface Lavatory System shall accommodate 1 to 2 users simultaneously. The single-piece lavatory bowl is constructed of Aquasurf® molded cast polymer densified solid surface material, composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive*.

Wall-mounted pedestal shall be fabricated entirely from T304 stainless steel, and will feature a removable shroud access panel for ease of fixture installation and maintenance. Included drain grate shall be constructed of heavy gauge stainless steel, and will secure directly to the drain assembly. All exposed stainless steel surfaces shall be polished to a #4 satin finish.

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.

Valves (by others), water supplies, and waste connections are concealed within the pedestal. Removable stainless steel access panel is secured with vandal-resistant security screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA and ANSI Compliant:

The lavatory is designed to comply with all applicable ADA and ANSI Z124.3 and Z124.6 accessibility guidelines, whether mounted at standard adult rim height (34" Max A.F.F.) or (JR) junior height (31" Max A.F.F.)

Optional Features:

Envy Lavatory Systems offer a wall mounted stainless steel kick plate (KPWV) for installations with floor-based plumbing rough-ins.



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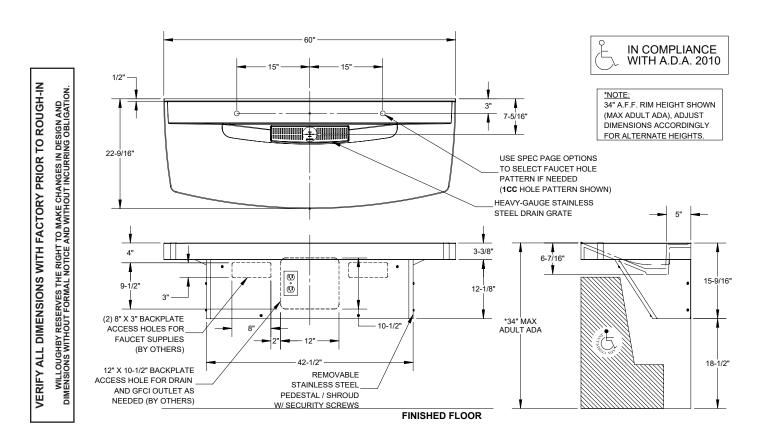
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1.) Washfou	ıntain Model:	5.) Solid Si	urface Colors:
☐ WELS-22	260 Envy Series Two Station Solid Surface Lavatory System	■ BN	Bone
		☐ GW	Glacier White
2.) Pedestal	Type:	☐ GG	Grey Granite
■ WALL	Wall Mounted, Low-profile, All-Stainless Steel Shroud (Standard)	□ SS	Sandstone
		■ WG	White Granite
3.) Junior H	eight Option:	□ BG	Black Granite
JR	Junior Height (31" Rim Height, JR. ADA Compliant)	■ NB	Nocturnal Blue
		□ RC	Red Coral
4.) Faucet D	Orilling:	□ SG	Sea Green
■ NV	No Valve, No Faucet Holes (Standard)		
☐ 4CC	Set of 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:)	6.) Other O	ptions:
☐ 8CC	Set of 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:)	■ KPWV	Wall Mounted Stainless Steel Kick Plate
☐ 1CC	Center Shank, (1) Ø1-1/4" Hole	Other	
□ SP	Special Drilling (Specify hole diameter and dimensions)	Other	
	SP:		

PATENTED: D803,996 S

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Type: _____

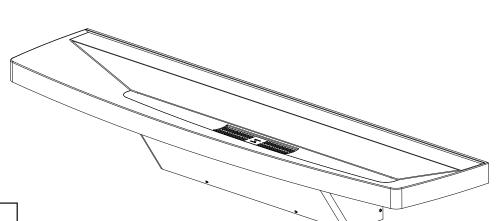


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MADE IN THE U.S.A.



WELS-2290
Envy Series
Three Station
Solid Surface
Lavatory System



PATENTED: D809,634 S



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an Envy Series Three Station Solid Surface Lavatory System with standard wall mounting (34" rim height), three sets of 1" Center Shank faucet holes, in Sandstone color

Use the following Willoughby Model Number: WELS-2290-WALL-1CC-SS

Recommended Specifications

Envy Series Three Station Solid Surface Lavatory System shall be: Willoughby Model No. **WELS-2290** (select from model number and options list on next page)

Envy Three Station Solid Surface Lavatory System shall accommodate 1 to 3 users simultaneously. The single-piece lavatory bowl is constructed of Aquasurf® molded cast polymer densified solid surface material, composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive*.

Wall-mounted pedestal shall be fabricated entirely from T304 stainless steel, and will feature a removable shroud access panel for ease of fixture installation and maintenance. Included drain grate shall be constructed of heavy gauge stainless steel, and will secure directly to the drain assembly. All exposed stainless steel surfaces shall be polished to a #4 satin finish.

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.

Vandal resistance:

Valves (by others), water supplies, and waste connections are concealed within the pedestal. Removable stainless steel access panel is secured with vandal-resistant security screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA and ANSI Compliant:

The lavatory is designed to comply with all applicable ADA and ANSI Z124.3 and Z124.6 accessibility guidelines, whether mounted at standard adult rim height (34" Max A.F.F.) or (JR) junior height (31" Max A.F.F.)

Optional Features:

Envy Lavatory Systems offer a wall mounted stainless steel kick plate (KPWV) for installations with floor-based plumbing rough-ins.



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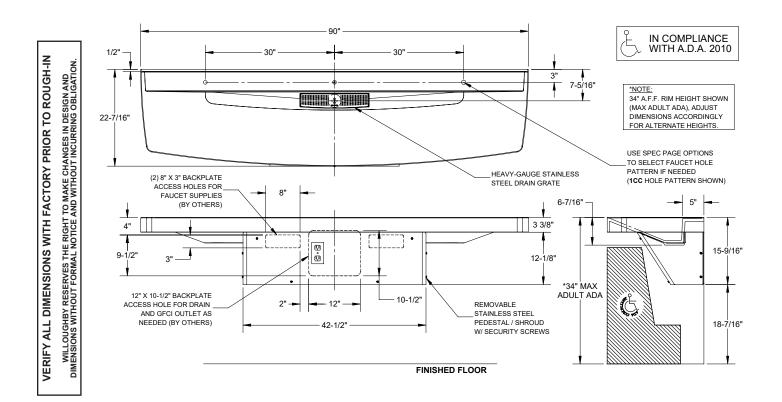


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1.) Washfor	untain Model:	5.) Solid S	urface Colors:
■ WELS-2	290 Envy Series Three Station Solid Surface Lavatory System	■ BN	Bone
		☐ GW	Glacier White
2.) Pedesta	I Type:	☐ GG	Grey Granite
■ WALL	Wall Mounted, Low-profile, All-Stainless Steel Shroud (Standard)	□ SS	Sandstone
		■ WG	White Granite
3.) Junior F	leight Option:	□ BG	Black Granite
□ JR	Junior Height (31" Rim Height, JR. ADA Compliant)	■ NB	Nocturnal Blue
		☐ RC	Red Coral
4.) Faucet [Orilling:	□ SG	Sea Green
■ NV	No Valve, No Faucet Holes (Standard)		
☐ 4CC	Set of 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:)	6.) Other C	Options:
☐ 8CC	Set of 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:)	■ KPWV	Wall Mounted Stainless Steel Kick Plate
☐ 1CC	Center Shank, (1) Ø1-1/4" Hole	Other	
□ SP	Special Drilling (Specify hole diameter and dimensions)	Other	
	SP:		

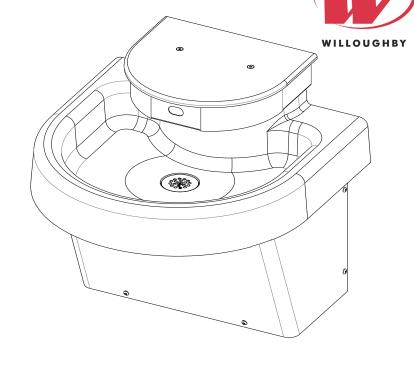
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Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Type: _____



MADE IN THE U.S.A.

WAW-2311 AquaWave® **Single Station Solid Surface Lavatory System**





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a single station AquaWave® lavatory with wall mounting, hard-wired infrared sensor actuation, and Bone color

Use the following Willoughby Model Number: WAW-2311-WALL-IR-BN

Recommended Specifications

AquaWave® Single Station, Solid Surface Lavatory System shall be: Willoughby Model No. WAW-2311 (select from model number and options list on next page.

AguaWave® Lavatory System shall accommodate 1 user. The lavatory system bowl, and top are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/ acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive***. The pre-assembled water distribution head and low-profile pedestal base shall be constructed of heavy gauge, Type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Push button and water spray nozzle shall be constructed of type 303 stainless steel. The drain grate shall be constructed of heavy gauge stainless steel. The pre-assembled sprayhead module shall be equipped with independent spray nozzle controlled by a push button or infrared sensor. Flow restrictor shall maintain flow rates at 0.5 GPM per station.

AquaWave® Lavatory Systems shall be supplied with thermostatic mixing valves, integral checkstops, drain spuds, flexible supply hoses, control valves, color coded water lines, and Class II 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 35-70 PSI.

* Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

Vandal resistance:

The spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the head kit. Valves, water supplies, and waste connections are concealed within the pedestal. Removable shroud is secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:

The lavatory is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines, whether mounted at standard adult rim height (34" Max AFF) or junior height (31" Max AFF).

Optional Features:

AquaWave® Lavatory Systems offer liquid soap dispensers as optional accessories.

***Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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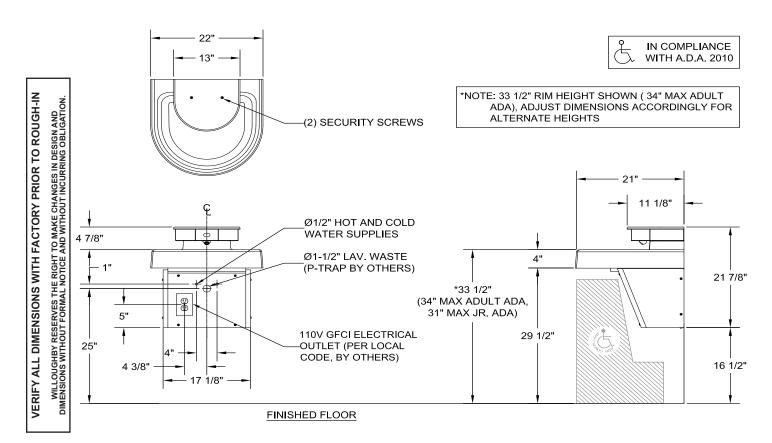
1.)	Washfountain	Model:	4.) Solid Surface Colors:		
	WAW-2311	AquaWave® 1 Station Solid Surface Lavatory System	☐ BN	Bone	
			☐ GW	Glacier White	
2.)	Pedestal Type	:	☐ GG	Grey Granite	
	WALL	Wall Mounted, Low-profile, All-Stainless Steel Shroud (Standard)	□ SS	Sandstone	
			■ WG	White Granite	
3.)	Valve Actuation	on:	□ BG	Black Granite	
	PPB1	Standard Pneumatic Push Button for Single Temperature	■ NB	Nocturnal Blue	
		Pneumatic Metering	□ RC	Red Coral	
	PPB2	Standard Pneumatic Push Buttons for Dual Temperature Pneumatic Metering	☐ SG	Sea Green	
	PZPB1	Ligature-resistant Piezo Electronic Push Button for Single	5.) Other O	otions:	
		Temperature Electronic (w/ Pneutronic Control)*/**	■ LSDM	Liquid Soap Dispenser- Deck-mounted Spout and Bottle	
	PZPB2	Ligature-resistant Piezo Electronic Push Buttons for Dual	☐ TL	Less In-line Thermostatic Mixing Valve	
		Temperature Electronic (w/ Pneutronic Control)*/**	□ LSH	1.5 gpm Laminar Flow Sprayhead	
	IR	Infrared Sensor, Plug-in*	Other _		
	ВО	Infrared Sensor, Battery Operated	Other _		
+	(D	(050)	**! ! !	F DEGICTANT DIGGLAIMED	

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

**LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		



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WAW-2322 AquaWave® Two Station Solid Surface Lavatory System

Recommended Specifications

AquaWave®Two Station, Solid Surface Lavatory System shall be: Willoughby Model No. **WAW-2322** (select from model number and options list on next page)

AquaWave® Lavatory System shall accommodate 1-2 users simultaneously. The lavatory system bowl, and top are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive***. The preassembled water distribution head and low-profile pedestal base shall be constructed of heavy gauge, Type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

WITH A.D.A. 2010

Push buttons and water spray nozzles shall be constructed of type 303 stainless steel. The drain grates shall be constructed of heavy gauge stainless steel. The pre-assembled sprayhead module shall be equipped with independent spray nozzles controlled by push buttons or infrared sensors. Flow restrictors shall maintain flow rates at 0.5 GPM per station.

AquaWave® Lavatory Systems shall be supplied with thermostatic mixing valves, integral checkstops, drain spuds, flexible supply hoses, control valves, color coded water lines, and Class II 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 35-70 PSI.

* <u>Note:</u> Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

Vandal resistance:

Use the following Willoughby Model Number:
WAW-2322-WALL-IR-GW-LSD

(Unit may be shown with optional features)

The spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the head kit. Valves, water supplies, and waste connections are concealed within the pedestal. Removable shroud is secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a two station AquaWave® lavatory with standard wall mounting (34" rim height), hardwired infrared sensors, Glacier White color, and liquid soap dispenser

The lavatory is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines, whether mounted at standard adult rim height (34" Max AFF) or (JR) junior height (31" Max AFF).

Optional Features:

AquaWave® Lavatory Systems offer liquid soap dispensers as optional accessories. A wall mounted stainless steel kick plate (KPWF) is available for installations with floor-based plumbing rough-ins.

***Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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1.) Washfountain Model:					
☐ WAW-2322	AquaWave® 2 Station Solid Surface Lavatory System				
2.) Pedestal Typ	e:				
☐ WALL	Wall Mounted, Low-profile, All-Stainless Steel Shroud (Standard				
3.) Junior Heigh	t Option:				
☐ JR	Junior Height (31" Rim Height, JR. ADA Compliant)				
4.) Valve Actuati	on:				
☐ PPB1	Standard Pneumatic Push Buttons for Single				
	Temperature Pneumatic Metering				
☐ PZPB1	Ligature-resistant Piezo Electronic Push Buttons for Single Temperature Electronic (w/ Pneutronic Control)*/**				
☐ IR	Infrared Sensors, Plug-in*				
□ во	Infrared Sensors, Battery Operated				
*(Req. 110V po	wer through ground fault interrupter (GFCI) receptacle)				

	5.) Solid Surface Colors:					
	■ BN	Bone				
	☐ GW	Glacier White				
	☐ GG	Grey Granite				
)	□ SS	Sandstone				
	■ WG	White Granite				
	□ BG	Black Granite				
	■ NB	Nocturnal Blue				
	□ RC	Red Coral				
	☐ SG	Sea Green				
	6.) Other O	ptions:				
	LSD	Liquid Soap Dispenser (1)				
	☐ TL	Less In-line Thermostatic Mixing Valve				
	KPWV	Wall Mounted Stainless Steel Kick Plate				
	LSH	1.5 gpm Laminar Flow Sprayheads				
	Other _					
	Other _					

**LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		



C16-10

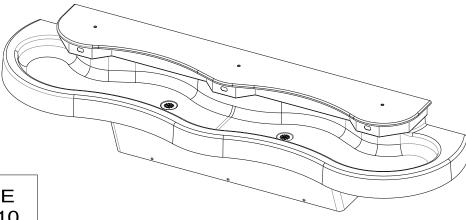
	54 3/4" 51 7/6" 37" (2) SECURITY SCREW:			"NOTE: 33-1/2" RIM HEIGHT SHOW ADULT ADA) ADJUST DIME FOR ALTERNATE HEIGHTS	N (34" MAX
IR: INFRARED SENSOR ACTUATORS (HARDWIRED) 110V GFCI ELECTRICAL OUTLET (PER LOCAL CODE, BY OTHERS)	22 1/2" (DRAINS)	(2)	1/2 HOT & COLD ATER SUPPLIES Ø1 1/2 LAV. ASTE (Ø.) TRABPS	<u>→</u> 11 1/8*—→	
	(B) (B) (1) (1) (1) (1) (2) (3) (4) (7) (8) (9) (1) (1) (1) (1) (1) (1) (1) (1	BY	ASTE (P-TRAPS / OTHERS) 4" 433 1/2 (34" MAX ADULT ADA) (31" MAX JR ADA) 29 1/2"		21 1/4"

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WAW-2333 AquaWave[®] **Three Station Solid Surface Lavatory System**





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a three station AquaWave® lavatory with standard wall mounting (34" rim height), battery operated infrared sensors, Grey Granite color, and liquid soap dispensers

Use the following Willoughby Model Number:

WAW-2333-WALL-BO-GG-LSD

Recommended Specifications

AguaWave® Three Station, Solid Surface Lavatory System shall be: Willoughby Model No. WAW-2333 (select from model number and options list on next page)

AquaWave® Lavatory System shall accommodate 1-3 users simultaneously. The lavatory system bowl, and top are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive***. The preassembled water distribution head and low-profile pedestal base shall be constructed of heavy gauge, Type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Push buttons and water spray nozzles shall be constructed of type 303 stainless steel. The drain grates shall be constructed of heavy gauge stainless steel. The pre-assembled sprayhead module shall be equipped with independent spray nozzles controlled by push buttons or infrared sensors. Flow restrictors shall maintain flow rates at 0.5 GPM per station.

AquaWave® Lavatory Systems shall be supplied with thermostatic mixing valves, integral checkstops, drain spuds, flexible supply hoses, control valves, color coded water lines, and Class II 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 35-70 PSI.

* Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

Vandal resistance:

The spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the head kit. Valves, water supplies, and waste connections are concealed within the pedestal. Removable shroud is secured with vandalresistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:

The lavatory is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines, whether mounted at standard adult rim height (34" Max AFF) or (JR) junior height (31" Max AFF).

Optional Features:

AquaWave® Lavatory Systems offer liquid soap dispensers as optional accessories. A wall mounted stainless steel kick plate (KPWF) is available for installations with floor-based plumbing rough-ins.

***Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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1.) Washfountai	n Model:	5.) Solid St	urface Colors:
■ WAW-2333	AquaWave® 3 Station Solid Surface Lavatory System	■ BN	Bone
		☐ GW	Glacier White
2.) Pedestal Typ	e:	☐ GG	Grey Granite
■ WALL	Wall Mounted, Low-profile, All-Stainless Steel Shroud (Standard)	☐ SS	Sandstone
		■ WG	White Granite
3.) Junior Heigh	t Option:	■ BG	Black Granite
□ JR	Junior Height (31" Rim Height, JR. ADA Compliant)	■ NB	Nocturnal Blu
		RC RC	Red Coral
4.) Valve Actuati	on:	☐ SG	Sea Green
☐ PPB1	Standard Pneumatic Push Buttons for Single		
	Temperature Pneumatic Metering	6.) Other O	ptions:
□ PZPB1	Ligature-resistant Piezo Electronic Push Buttons for Single	LSD	Liquid Soap
	Temperature Electronic (w/ Pneutronic Control)*/**	TL	Less In-line
□ IR	Infrared Sensors, Plug-in*	■ KPWV	Wall Mounte
□ во	Infrared Sensors, Battery Operated	LSH	1.5 gpm Lar
		Other	
*(Req. 110V po	wer through ground fault interrupter (GFCI) receptacle)	Other	

,	o.) Sona St	irrace Colors:
[□ BN	Bone
[⊒ GW	Glacier White
[⊒ GG	Grey Granite
[☐ SS	Sandstone
[⊒ WG	White Granite
[⊒ BG	Black Granite
[☐ NB	Nocturnal Blue
[☐ RC	Red Coral
[☐ SG	Sea Green
(6.) Other O	ptions:
[LSD	Liquid Soap Dispensers (2)
[TL	Less In-line Thermostatic Mixing Valve
[■ KPWV	Wall Mounted Stainless Steel Kick Plate
[LSH	1.5 gpm Laminar Flow Sprayheads
[Other _	
[Other _	

**LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in

conjunction with, not as a replacement for, trained professionals. Approved For Manufacturing By: _ Date: ___ Company: _ Wall Thickness: Wall Type: IN COMPLIANCE WITH A.D.A. 2010 33-1/2" RIM HEIGHT SHOWN (34" MAX VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN ADULT ADA) ADJUST DIMENSIONS FOR ALTERNATE HEIGHTS WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION. (3) SECURITY SCREWS Ø1/2 HOT & COLD WATER SUPPLIES 110V GFCI ELECTRICAL (2) Ø1 1/2 LAV. WASTE (P-TRAP BY OTHERS) OUTLET (PER LOCAL CODE, BY OTHERS) Ø *33 1/2 (34" MAX ADULT ADA) (31" MAX JR ADA) 38 1/2" FINISHED FLOOR visit our website at www.willoughby-ind.com 5105 West 78th Street • Indianapolis, IN. 46268

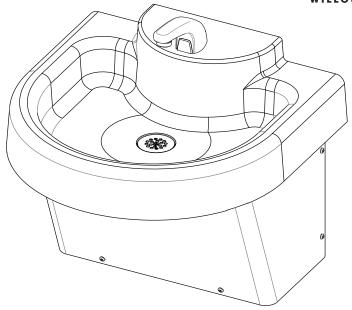
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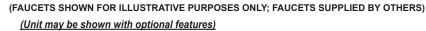




WAW-2311-DMF

AquaWave®
Single Station
Solid Surface
Lavatory System
for (DMF) Deck
Mounted Faucets





To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a single station AquaWave® lavatory for a deck mounted faucet with standard wall mounting, 31" junior ADA rim height, 1" Center Shank faucet hole, in Sandstone color

Use the following Willoughby Model Number: WAW-2311-DMF-WALL-JR-1CC-SS



Recommended Specifications

AquaWave® Single Station, Solid Surface Lavatory System for use with Deck Mounted Faucet shall be: Willoughby Model No. **WAW-2311-DMF** (select from model number and options list on next page)

AquaWave® Lavatory System shall accommodate 1 user. The lavatory system bowl is constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive*. The pre-assembled low-profile pedestal base and included drain grate shall be constructed of heavy gauge, Type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.

Vandal resistance:

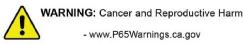
Valve (by others), water supplies, and waste connection are concealed within the pedestal. Removable shroud is secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:

The lavatory is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines, whether mounted at standard adult rim height (34" Max AFF) or junior height (31" Max AFF).

Optional Features:

AquaWave® Lavatory Systems offer liquid soap dispensers as optional accessories.



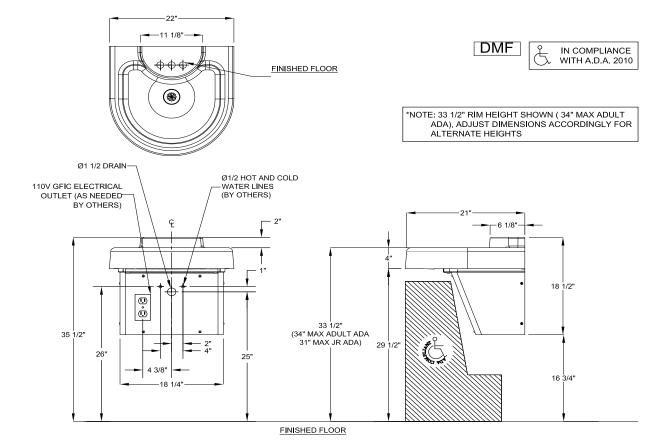
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1.) Washi	I.) Washfountain Model:				4.) Solid Surface Colors:		
☐ WAW-	2311-DMF	AquaWave® 1 Station Solid Surface Lavatory System		BN	Bone		
		for Deck Mounted Faucet		GW	Glacier White		
				GG	Grey Granite		
2.) Pedes	tal Type:			SS	Sandstone		
■ WALL	Wa	all Mounted, Low-profile, All-Stainless Steel Shroud (Standard)		WG	White Granite		
				BG	Black Granite		
3.) Fauce	t Drilling:			NB	Nocturnal Blue		
■ NV	No Valv	e, No Faucet Holes (Standard)		RC	Red Coral		
☐ 4CC	Set of 4	" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:)		SG	Sea Green		
☐ 8CC	Set of 8	" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:)					
□ 1CC	Center S	Shank, (1) Ø1-1/4" Hole	5.)	Other O	otions:		
□ SP	Special	Drilling (Specify hole diameter and dimensions)		LSDM	Liquid Soap Dispenser- Deck-mounted Spout and Bottle		
	SP:			Other _			
				Other			

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		



VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.

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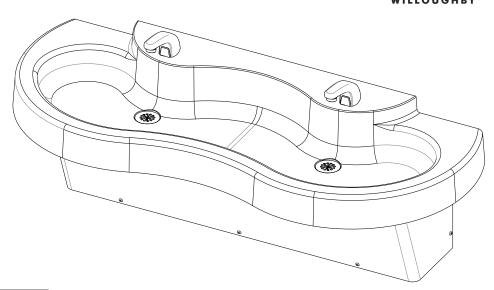
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WILLDHEAD

WAW-2322-DMF

AquaWave®
Two Station
Solid Surface
Lavatory System
for (DMF) Deck
Mounted Faucets





(FAUCETS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY; FAUCETS SUPPLIED BY OTHERS)

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a two station AquaWave® lavatory for a deck mounted faucet with standard wall mounting (34" rim height), two sets of 4" Centerset 1" faucet holes, in White Granite color

Use the following Willoughby Model Number: WAW-2322-DMF-WALL-4CC-WG

Recommended Specifications

AquaWave® Two Station, Solid Surface Lavatory System for use with Deck Mounted Faucets shall be: Willoughby Model No. **WAW-2322-DMF** (select from model number and options list on next page)

AquaWave® Lavatory System shall accommodate 1 to 2 users simultaneously. The lavatory system bowl is constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive*. The preassembled low-profile pedestal base and included drain grates shall be constructed of heavy gauge, Type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.

Vandal resistance:

Valves (by others), water supplies, and waste connections are concealed within the pedestal. Removable shroud is secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:

The lavatory is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines, whether mounted at standard adult rim height (34" Max AFF) or (JR) junior height (31" Max AFF).

Optional Features:

AquaWave® Lavatory Systems offer liquid soap dispensers as optional accessories. A wall mounted stainless steel kick plate (KPWF) is available for installations with floor-based plumbing rough-ins.



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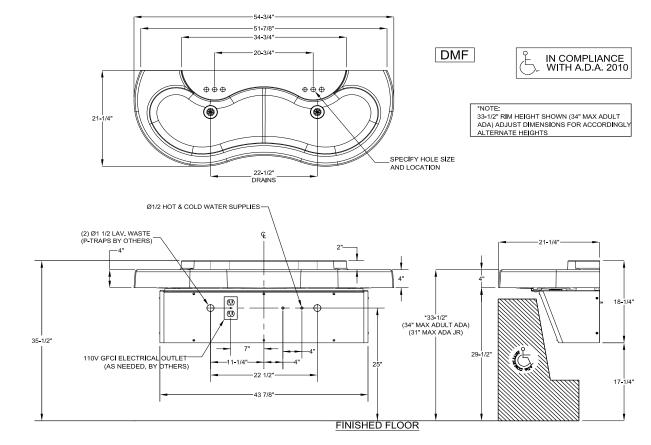


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5.) Solia Si	urface Colors:
■ BN	Bone
☐ GW	Glacier White
☐ GG	Grey Granite
□ SS	Sandstone
) 🔲 WG	White Granite
☐ BG	Black Granite
■ NB	Nocturnal Blue
☐ RC	Red Coral
□ SG	Sea Green
6.) Other O	options:
☐ LSDM	Liquid Soap Dispensers- Deck-mounted Spout and Bottle
☐ KPWV	Wall Mounted Stainless Steel Kick Plate
Other	
Other	
	□ BN □ GW □ GG □ SS) □ WG □ BG □ NB □ RC □ SG 6.) Other C □ LSDM □ KPWV □ Other

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		



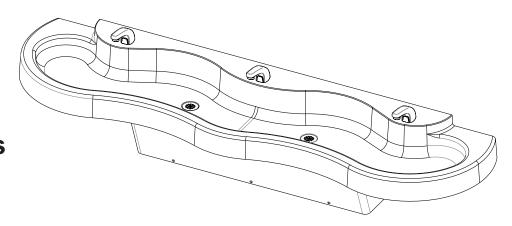
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WAW-2333-DMF
AquaWave®
Three Station
Solid Surface
Lavatory System
for (DMF) Deck
Mounted Faucets





(FAUCETS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY; FAUCETS SUPPLIED BY OTHERS)

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a three station AquaWave® lavatory for a deck mounted faucet with standard wall mounting (34" rim height), three sets of 4" Centerset 1" faucet holes, in Black Granite color

Use the following Willoughby Model Number: WAW-2333-DMF-WALL-4CC-BG

Recommended Specifications

AquaWave® Three Station, Solid Surface Lavatory System for use with Deck Mounted Faucets shall be: Willoughby Model No. **WAW-2333-DMF** (select from model number and options list on next page)

AquaWave® Lavatory System shall accommodate 1 to 3 users simultaneously. The lavatory system bowl is constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive*. The preassembled low-profile pedestal base and included drain grate shall be constructed of heavy gauge, Type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.

Vandal resistance:

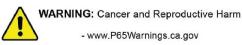
Valves (by others), water supplies, and waste connections are concealed within the pedestal. Removable shroud is secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:

The lavatory is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines, whether mounted at standard adult rim height (34" Max AFF) or (JR) junior height (31" Max AFF).

Optional Features:

AquaWave® Lavatory Systems offer liquid soap dispensers as optional accessories. A wall mounted stainless steel kick plate (KPWF) is available for installations with floor-based plumbing rough-ins.

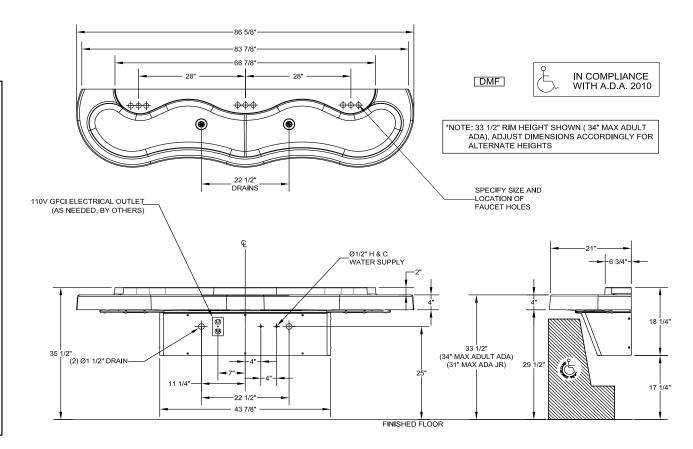


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1.) Washfo	untain Mo	odel:	5.) Solid Surface Colors:		
■ WAW-23	333-DMF	AquaWave® 3 Station Solid Surface Lavatory System	■ BN	Bone	
		for Deck Mounted Faucets	☐ GW	Glacier White	
			☐ GG	Grey Granite	
2.) Pedesta	al Type:		□ SS	Sandstone	
■ WALL	Wa	Ill Mounted, Low-profile, All-Stainless Steel Shroud (Standard)	■ WG	White Granite	
			□ BG	Black Granite	
3.) Junior H	leight Op	tion:	■ NB	Nocturnal Blue	
□ JR	Junior H	leight (31" Rim Height, JR. ADA Compliant)	□ RC	Red Coral	
			□ SG	Sea Green	
4.) Faucet I	Drilling:				
■ NV	No Valv	e, No Faucet Holes (Standard)	6.) Other O	ptions:	
☐ 4CC	Set of 4	"Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:)	☐ LSDM	Liquid Soap Dispensers- Deck-mounted Spout and Bottle	
■ 8CC	Set of 8	"Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:)	■ KPWV	Wall Mounted Stainless Steel Kick Plate	
☐ 1CC	Center S	Shank, (1) Ø1-1/4" Hole	Other		
□ SP	Special	Drilling (Specify hole diameter and dimensions)	Other		
	SP:				

Approved For Manufacturing By:		Date:	_ Company:	
Wall Thickness:	Wall Type:			



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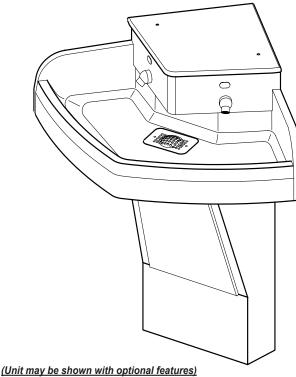
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WAF-2200/2201 **AquaFount® Corner Mounted Two Station Solid Surface** Washfountain





To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a corner mounted two station AquaFount® floor mounted (34" rim height) washfountain with hard-wired infrared sensors, in Nocturnal Blue color

Use the following Willoughby Model Number:

WAF-2200-IR-NR

Recommended Specifications

AquaFount® Corner Mounted, Two Station, Solid Surface Washfountain shall be: Willoughby Model No. WAF-220 (select from model number and options list on next page)

AguaFount® washfountain shall accommodate from 1 to 2 users simultaneously. The washfountain bowl, top, and pedestal panel are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive***. The pre-assembled water distribution heads and pedestal base shall be constructed of heavy gauge, type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Push buttons and water spray nozzles shall be constructed of type 303 stainless steel. The drain grate shall be constructed of heavy gauge stainless steel. The pre-assembled sprayhead module shall be equipped with independent spray nozzles controlled by separate push buttons or infrared sensors. Flow restrictors shall maintain flow rates at 0.5 GPM per station.

AquaFount® washfountains shall be supplied with thermostatic mixing valves, integral checkstops, drain spuds, flexible supply hoses, control valves, color coded water lines, and Class II 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 35-70 PSI.

* Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

Vandal resistance:

The spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the head kit. Valves, water supplies, and waste connections are concealed within the pedestal. Removable access panels are secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

Optional Features:

AquaFount® washfountains offer liquid soap dispensers as optional accessories. AquaFount® washfountains can be ordered with 31" rim heights (WAF-2200 and WAF-2201 models only) for juvenile use (JR).

Washfountain is not ADA, TAS, or ANSI Compliant.

***Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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BN

1.) Washfou	ıntain Type:
☐ WAF	AquaFount®
2.) Base Mo	del Number:
2200	Corner Mounted 2 Station Solid Surface Floor Mounted Washfountain
2201	Corner Mounted 2 Station Solid Surface Wall Mounted Washfountain
3.) Junior H	eight Option:
☐ JR	Junior Height (31" Rim Height)
4.) Valve Ac	tuation:
☐ PPB1	Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering
☐ PZPB1	Ligature-resistant Piezo Electronic Push Buttons for Singl Temperature Electronic (w/ Pneutronic Control)*/**
☐ IR	Infrared Sensors, Plug-in*
□ во	Infrared Sensors, Battery Operated
*(Req. 110	V power through ground fault interrupter (GFCI) receptacle)

_			_
	BG	Black	G

☐ GW Glacier White ☐ GG **Grey Granite**

5.) Solid Surface Colors:

Bone

- □ SS Sandstone □ WG White Granite
- Black Granite ■ NB Nocturnal Blue ☐ RC Red Coral
- □ SG Sea Green

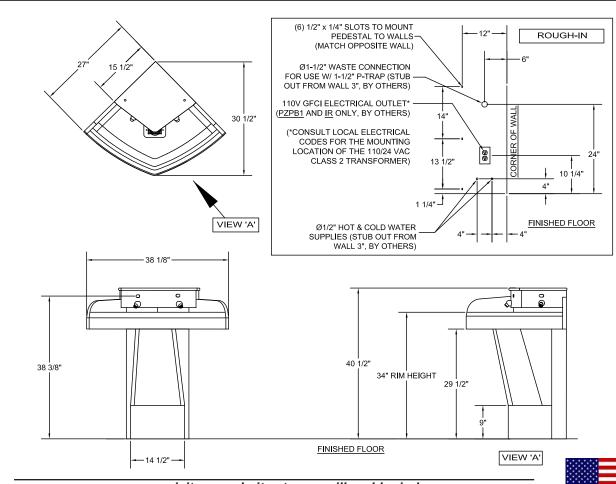
6.) Other Options:

- LSD Liquid Soap Dispenser (1)
- ☐ TL Less In-line Thermostatic Mixing Valve ☐ LSH 1.5 gpm Laminar Flow Sprayheads
- Other ☐ Other

**LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

Approved For Manufacturing By: _ Company: _ Wall Thickness: Wall Type:



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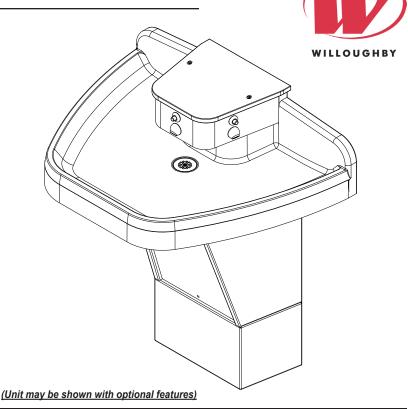
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WAF-3300/3301 **AquaFount® Three Station Solid Surface Washfountain**





To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a three station AquaFount® floor mounted (34" rim height) washfountain with pneumatic push buttons, in Red Coral color

Use the following Willoughby Model Number:

WAF-3300-PPB1-RC

Recommended Specifications

AquaFount® Three Station, Solid Surface Washfountain shall be: Willoughby Model No. WAF-330_ (select from model number and options list on next page)

AquaFount® washfountain shall accommodate from 1 to 3 users simultaneously. The washfountain bowl, top, and pedestal panel are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive***. The pre-assembled water distribution heads and pedestal base shall be constructed of heavy gauge, type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Push buttons and water spray nozzles shall be constructed of type 303 stainless steel. The drain grate shall be constructed of heavy gauge stainless steel. The pre-assembled sprayhead module shall be equipped with independent spray nozzles controlled by separate push buttons or infrared sensors. Flow restrictors shall maintain flow rates at 0.5 GPM per station.

AquaFount® washfountains shall be supplied with thermostatic mixing valves, integral checkstops, drain spuds, flexible supply hoses, control valves, color coded water lines, and Class II 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 35-70 PSI.

* Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

Vandal resistance:

The spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the head kit. Valves, water supplies, and waste connections are concealed within the pedestal. Removable access panels are secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:

When the washfountain is mounted at the standard 34" adult rim height, it is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Optional Features:

AquaFount® washfountains offer liquid soap dispensers as optional accessories. AquaFount® washfountains can be ordered with 31" rim heights for juvenile use (JR).

***Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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1.) wasnto	untain Type:	5.) Solia S	urtace Colors:
■ WAF	AquaFount®	■ BN	Bone
		☐ GW	Glacier White
2.) Base Me	odel Number:	☐ GG	Grey Granite
3300	3 Station Solid Surface Floor Mounted Washfountain	□ SS	Sandstone
3301	3 Station Solid Surface Wall Mounted Washfountain	■ WG	White Granite
		□ BG	Black Granite
3.) Junior I	Height Option:	■ NB	Nocturnal Blue
JR	Junior Height (31" Rim Height, JR. ADA Compliant)	□ RC	Red Coral
		□ SG	Sea Green
4.) Valve A	ctuation:		
■ PPB1	Standard Pneumatic Push Buttons for Single	6.) Other C	Options:
	Temperature Pneumatic Metering	☐ LSD	Liquid Soap Dispensers (2)
□ PZPB1	Ligature-resistant Piezo Electronic Push Buttons for Single	□ TL	Less In-line Thermostatic Mixing Valve
	Temperature Electronic (w/ Pneutronic Control)*/**	□ LSH	1.5 gpm Laminar Flow Sprayheads
□ IR	Infrared Sensors, Plug-in*	Other	
□ во	Infrared Sensors, Battery Operated	Other	

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

**LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

Approved For Manufacturing By: ___ __ Date: _____ Company: ____ Wall Thickness: _ Wall Type: _ 36" IN COMPLIANCE * 34" RIM HEIGHT SHOWN WITH A.D.A. 2010 (MAX ADULT ADA). SPECIFY IF 31" JUNIOR HEIGHT IS NEEDED **CONSULT LOCAL ELECTRICAL CODES FOR THE MOUNTING VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION 26" LOCATION OF THE 110/24 VAC **CLASS 2 TRANSFORMER** APPROX. LOCATION OF WASTE ROUGH-IN (STUB-OUT FROM WALL 3", BY OTHERS) 0 3 1/2' 34" (MAX ADULT ADA)* 110V GFCI ELECTRICAL OUTLET** (PZPB1 AND <u>"</u> IR ONLY, BY OTHERS) 88 37 1/2". 25 1/2" Ø1/2" HOT AND COLD 4" 20 1/2"-WATER SUPPLY CONNECTIONS (STUB OUT FROM WALL 3", BY OTHERS) FINISHED FLOOR -18"--8 7/8"-

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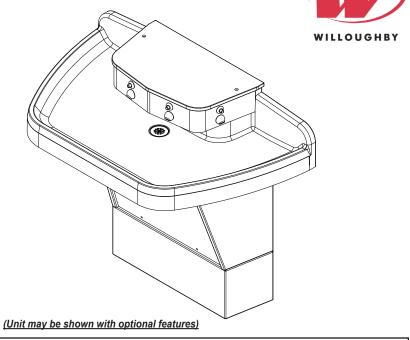
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WAF-4400/4401 AquaFount® Four Station Solid Surface Washfountain



Recommended Specifications



To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a four station AquaFount® floor mounted (34" rim height) washfountain with pneumatic push buttons, in Sea Green color

Use the following Willoughby Model Number:
WAF-4400-PPB1-SG

AquaFount® Four Station, Solid Surface Washfountain shall be: Willoughby Model No. **WAF-440**____(select from model number and options list on next page)

AquaFount® washfountain shall accommodate from 1 to 4 users simultaneously. The washfountain bowl, top, and pedestal panel are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive***. The pre-assembled water distribution heads and pedestal base shall be constructed of heavy gauge, type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Push buttons and water spray nozzles shall be constructed of type 303 stainless steel. The drain grate shall be constructed of heavy gauge stainless steel. The pre-assembled sprayhead module shall be equipped with independent spray nozzles controlled by separate push buttons or infrared sensors. Flow restrictors shall maintain flow rates at 0.5 GPM per station.

AquaFount® washfountains shall be supplied with thermostatic mixing valves, integral checkstops, drain spuds, flexible supply hoses, control valves, color coded water lines, and Class II 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 35-70 PSI.

* <u>Note:</u> Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

Vandal resistance:

The spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the head kit. Valves, water supplies, and waste connections are concealed within the pedestal. Removable access panels are secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:

When the washfountain is mounted at the standard 34" adult rim height, it is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Optional Features:

AquaFount® washfountains offer liquid soap dispensers as optional accessories. AquaFount® washfountains can be ordered with 31" rim heights for juvenile use (JR).

***Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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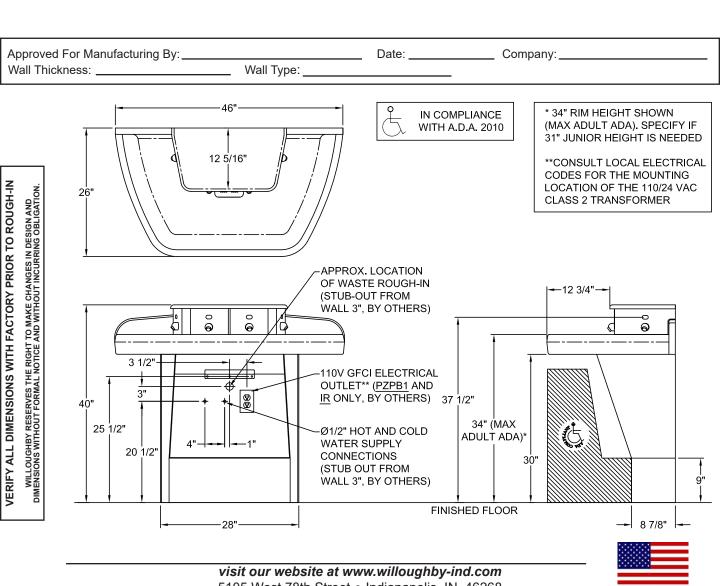
MODEL	NUN	IBFR	OPI	FIONS:
	14011		\mathbf{v}	

1.) Washfoui	ntain Type:	5.) Solid Si	urface Colors:
■ WAF	AquaFount®	■ BN	Bone
		☐ GW	Glacier White
2.) Base Mod	del Number:	☐ GG	Grey Granite
44 00	4 Station Solid Surface Floor Mounted Washfountain	□ SS	Sandstone
4 401	4 Station Solid Surface Wall Mounted Washfountain	■ WG	White Granite
		□ BG	Black Granite
3.) Junior He	eight Option:	■ NB	Nocturnal Blue
☐ JR	Junior Height (31" Rim Height, JR. ADA Compliant)	RC	Red Coral
		□ SG	Sea Green
4.) Valve Act	uation:		
☐ PPB1	Standard Pneumatic Push Buttons for Single	6.) Other O	ptions:
	Temperature Pneumatic Metering	LSD	Liquid Soap Dispensers (2)
☐ PZPB1	Ligature-resistant Piezo Electronic Push Buttons for Single	☐ TL	Less In-line Thermostatic Mixing Valve
_	Temperature Electronic (w/ Pneutronic Control)*/**	LSH	1.5 gpm Laminar Flow Sprayheads
☐ IR	Infrared Sensors, Plug-in*	Other	
□ во	Infrared Sensors, Battery Operated	Other	
_	• • •		

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

**LIGATURE-RESISTANT DISCLAIMER

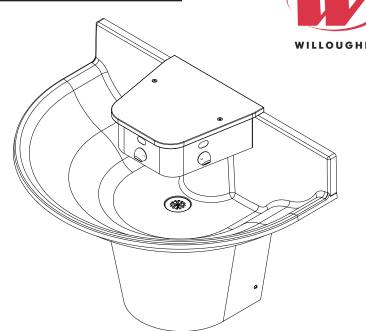
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WAF-3603 AquaFount® Three Station Half Round 36" Solid Surface **Deep Bowl Washfountain**



(Unit may be shown with optional features)

IN COMPLIANCE WITH A.D.A. 2010

Recommended Specifications

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a three station half round 36" AquaFount® washfountain with standard wall mounting (34" rim height), hard-wired infrared sensors, in Bone color

Use the following Willoughby Model Number:
WAF-3603-WALL-IR-BN

AguaFount® Half Round, 36" Solid Surface Washfountain shall be: Willoughby Model No. WAF-3603 (select from model number and options list on next page)

AguaFount® washfountain shall accommodate from 1 to 3 users simultaneously. The washfountain bowl and cover are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive***. The preassembled water distribution heads and pedestal base shall be constructed of heavy gauge, type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Push buttons and water spray nozzles shall be constructed of type 303 stainless steel. The drain grate shall be constructed of heavy gauge stainless steel. The pre-assembled sprayhead module shall be equipped with independent spray nozzles controlled by separate push buttons or infrared sensors. Flow restrictors shall maintain flow rates at 0.5 GPM per station.

AquaFount® washfountains shall be supplied with thermostatic mixing valves, integral checkstops, drain spuds, flexible supply hoses, control valves, color coded water lines, and Class II 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 35-70 PSI.

* Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

Vandal resistance:

The spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the head kit. Valves, water supplies, and waste connections are concealed within the pedestal. Removable access panels are secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:

When the washfountain is mounted at the standard 34" adult rim height, it is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Optional Features:

AguaFount® washfountains offer liquid soap dispensers as optional accessories. AquaFount® washfountains can be ordered with 31" rim heights for juvenile use (JR). A wall mounted stainless steel kick plate (KPWF) is available for wall-mounted pedestals with floor-based plumbing rough-ins.

***Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning



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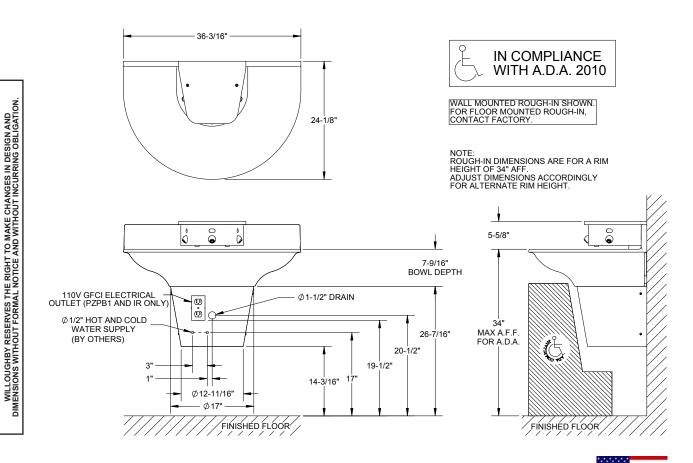
1.) Washfoun	tain Model:
☐ WAF-3603	AquaFount® 3 Station 36" Half Round Deep Bowl
	Solid Surface Washfountain
2.) Pedestal 1	Гуре:
☐ WALL	Wall Mounted (Standard)
3.) Junior He	ight Option:
☐ JR	Junior Height (31" Rim Height, JR. ADA Compliant)
4.) Valve Actu	uation:
☐ PPB1	Standard Pneumatic Push Buttons for Single
	Temperature Pneumatic Metering
☐ PZPB1	Ligature-resistant Piezo Electronic Push Buttons for Single
	Temperature Electronic (w/ Pneutronic Control)*/**
☐ IR	Infrared Sensors, Plug-in*
□ во	Infrared Sensors, Battery Operated
*(Req. 110V	power through ground fault interrupter (GFCI) receptacle)

5.) Solid Su	ırface Colors:
■ BN	Bone
☐ GW	Glacier White
☐ GG	Grey Granite
□ SS	Sandstone
■ WG	White Granite
□ BG	Black Granite
■ NB	Nocturnal Blue
□ RC	Red Coral
☐ SG	Sea Green
6.) Other O	ptions:
LSD	Liquid Soap Dispensers (2)
☐ TL	Less In-line Thermostatic Mixing Valve
KPWF	Wall Mounted Stainless Steel Kick Plate
□ LSH	1.5 gpm Laminar Flow Sprayheads
Other _	
Other _	

**LIGATURE-RESISTANT DISCLAIMER

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Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		

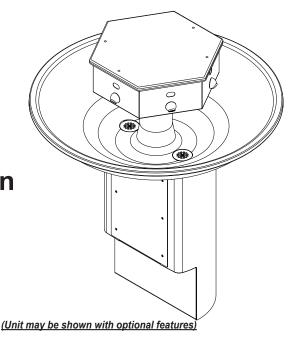


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WAF-3606
AquaFount®
Six Station
Full Round
36" Solid Surface
Deep Bowl Washfountain







Recommended Specifications

AquaFount® Full Round, 36" Solid Surface Washfountain shall be: Willoughby Model No. **WAF-3606** (select from model number and options list on next page)

AquaFount® washfountain shall accommodate from 1 to 6 users simultaneously. The washfountain bowl and cover are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive***. The pre-assembled water distribution heads and pedestal base shall be constructed of heavy gauge, type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Push buttons and water spray nozzles shall be constructed of type 303 stainless steel. The drain grate shall be constructed of heavy gauge stainless steel. The pre-assembled sprayhead module shall be equipped with independent spray nozzles controlled by separate push buttons or infrared sensors. Flow restrictors shall maintain flow rates at 0.5 GPM per station.

AquaFount® washfountains shall be supplied with thermostatic mixing valves, integral checkstops, drain spuds, flexible supply hoses, control valves, color coded water lines, and Class II 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 35-70 PSI.

* <u>Note:</u> Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a six station full round 36" AquaFount® washfountain with standard floor mounting (34" rim height), hard-wired infrared sensors, standard water supply from below, in Glacier White color

Use the following Willoughby Model Number:
WAF-3606-FLR-IR-SB-GW

Vandal resistance:

The spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the head kit. Valves, water supplies, and waste connections are concealed within the pedestal. Removable access panels are secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:

At the standard 34" adult rim height, one (1) station is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines. The other stations will comply with most but not all accessibility guidelines. This excludes Floor Mounted Foot Operated (FO) models.

Optional Features:

AquaFount® washfountains offer liquid soap dispensers as optional accessories. AquaFount® washfountains can be ordered with 31" rim heights for juvenile use (JR).

***Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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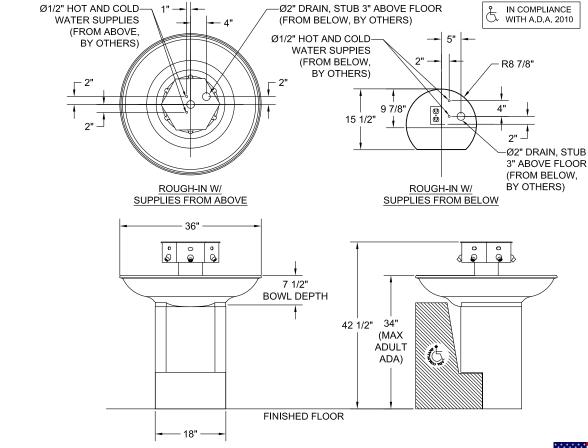
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1.) Washfor	untain Model:	6.) Solid Su	urface Colors:
■ WAF-36	06 AquaFount® 6 Station 36" Full Round Deep Bowl	■ BN	Bone
	Solid Surface Washfountain	☐ GW	Glacier White
		☐ GG	Grey Granite
2.) Pedesta	ıl Type:	□ SS	Sandstone
☐ FLR	Floor Mounted (Standard)	■ WG	White Granite
		BG	Black Granite
3.) Junior H	Height Option:	■ NB	Nocturnal Blue
JR	Junior Height (31" Rim Height, JR. ADA Compliant)	□ RC	Red Coral
		□ SG	Sea Green
4.) Valve Ad	ctuation:		
☐ PPB1	Standard Pneumatic Push Buttons for Single	7.) Other O	ptions:
	Temperature Pneumatic Metering	LSD	Liquid Soap Dispensers (2)
PZPB1	Ligature-resistant Piezo Electronic Push Buttons for Single	☐ TL	Less In-line Thermostatic Mixing Valve
	Temperature Electronic (w/ Pneutronic Control)*/**	☐ SSC	Stainless Steel Head Cover (Top Cap)
☐ IR	Infrared Sensors, Plug-in*	TSHWF	Telescoping Washfountain Shroud (For use on (SA) models only)
□ во	Infrared Sensors, Battery Operated	LSH	1.5 gpm Laminar Flow Sprayheads
☐ FO	Foot Operated Pneumatic Push Buttons (Not ADA Compliant)	Other _	
		Other	
*(Req. 110	0V power through ground fault interrupter (GFCI) receptacle)		
5.) Water S	upply:	**LIGATUR	E-RESISTANT DISCLAIMER
□ SB	Supply From Below (Standard)	This produc	t is designed to minimize ligature points. While every effort has been
☐ SA	Supply From Above (Option (TSHWF) recommended)	made to rec	luce the possibility of ligature points, this product does not eliminate
		all risks. Lig	ature-Resistant products by Willoughby Industries are to be used in
		conjunction	with, not as a replacement for, trained professionals.
		·	

Approved For Manufacturing By: _____ Date: ____ Company: _____ Wall Thickness: _____ Wall Type: _____



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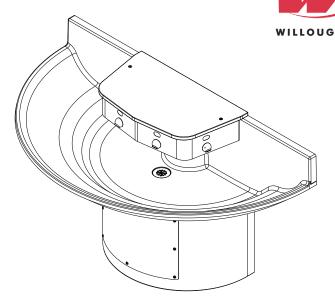
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WAF-5403/5404 **AquaFount® Three / Four Station** Half Round 54" Solid Surface **Deep Bowl Washfountain**

> IN COMPLIANCE WITH A.D.A. 2010



(Unit may be shown with optional features)

Recommended Specifications

AquaFount® Half Round, 54" Solid Surface Washfountain shall be: Willoughby Model No. WAF-540_ (select from model number and options list on next page)

AquaFount® washfountain shall accommodate from 1 to 3 users simultaneously for the 3 station and 1 to 4 users simultaneously for the 4 station. The washfountain bowl and cover are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive***. The pre-assembled water distribution heads and pedestal base shall be constructed of heavy gauge, type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Push buttons and water spray nozzles shall be constructed of type 303 stainless steel. The drain grate shall be constructed of heavy gauge stainless steel. The pre-assembled sprayhead module shall be equipped with independent spray nozzles controlled by separate push buttons or infrared sensors. Flow restrictors shall maintain flow rates at 0.5 GPM per station.

AquaFount® washfountains shall be supplied with thermostatic mixing valves, integral checkstops, drain spuds, flexible supply hoses, control valves, color coded water lines, and Class II 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 35-70 PSI.

* Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a four station half round 54" AquaFount® washfountain with standard wall mounting, 31" junior ADA rim height, battery operated infrared sensors, in Grey Granite color

Use the following Willoughby Model Number: WAF-5404-WALL-JR-BO-GG

Vandal resistance:

The spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the head kit. Valves, water supplies, and waste connections are concealed within the pedestal. Removable access panels are secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:

When the washfountain is mounted at the standard 34" adult rim height, it is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines. This excludes Floor Mounted Foot Operated (FO) models.

Optional Features:

AquaFount® washfountains offer liquid soap dispensers as optional accessories. AquaFount® washfountains can be ordered with 31" rim heights for juvenile use (JR). A wall mounted stainless steel kick plate (KPWF) is available for wall-mounted pedestals with floor-based plumbing rough-ins.

***Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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C16-29

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JR FI 3.) Junior Heigi JR Junior Heigi JR Junior Heigi PPB1 PPB1 PZPB1 IR BO FO	AquaFount® 3 Station 54" Half Round Deep Bowl Solid Surface Washfountain AquaFount® 4 Station 54" Half Round Deep Bowl Solid Surface Washfountain pe: Vall Mounted (Standard) loor Mounted ht Option: unior Height (31" Rim Height, JR. ADA Compliant)	5.) Solid Surface Colors: BN Bone GW Glacier White GG Grey Granite SS Sandstone WG White Granite BG Black Granite NB Nocturnal Blue RC Red Coral SG Sea Green 6.) Other Options: LSD Liquid Soap Dispensers (2) TL Less In-line Thermostatic Mixing Valve KPWF Wall Mounted Stainless Steel Kick Plate (For wall-mounted pedestal only) LSH 1.5 gpm Laminar Flow Sprayheads Other Other Other Other Steel Kick Plate (For wall-mounted pedestal only) LSH 1.5 gpm Laminar Flow Sprayheads Other Other Other Other Other Other Steel Kick Plate (For wall-mounted pedestal only) LSH 1.5 gpm Laminar Flow Sprayheads Other Other Other Other Other Other Other Other This product is designed to minimize ligature points. While every effort has bee made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.
	For Manufacturing By: Wall Type:	Date: Company:
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.	## DESCRIPTION OF THE PROPERTY	IN COMPLIANCE WITH A.D.A. 2010 WALL MOUNTED ROUGH-IN SHOWN. FOR FLOOR MOUNTED ROUGH-IN, CONTACT FACTORY. NOTE: ROUGH-IN DIMENSIONS ARE FOR A RIM HEIGHT OF 34" AFF. ADJUST DIMENSIONS ACCORDINGLY FOR ALTERNATE RIM HEIGHT. 5-5/8" MAX A.F.F. FOR A.D.A.

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FINISHED FLOOR

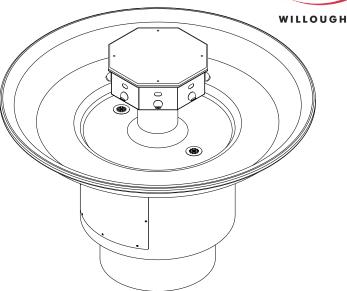
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FINISHED FLOOR

WAF-5406/5408
AquaFount®
Six / Eight Station
Full Round
54" Solid Surface
Deep Bowl Washfountain

IN COMPLIANCE WITH A.D.A. 2010





Recommended Specifications

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an eight station full round 36" AquaFount® washfountain with standard floor mounting (34" rim height), hard-wired infrared sensors, standard water supply from below, in Sandstone color

Use the following Willoughby Model Number:
WAF-5408-FLR-IR-SB-SS

AquaFount® Full Round, 54" Solid Surface Washfountain shall be: Willoughby Model No. **WAF-540___** (select from model number and options list on next page)

AquaFount® washfountain shall accommodate from 1 to 6 users simultaneously for the 6 station and 1 to 8 users simultaneously for the 8 station. The washfountain bowl and cover are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive***. The preassembled water distribution heads and pedestal base shall be constructed of heavy gauge, type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Push buttons and water spray nozzles shall be constructed of type 303 stainless steel. The drain grate shall be constructed of heavy gauge stainless steel. The pre-assembled sprayhead module shall be equipped with independent spray nozzles controlled by separate push buttons or infrared sensors. Flow restrictors shall maintain flow rates at 0.5 GPM per station.

AquaFount® washfountains shall be supplied with thermostatic mixing valves, integral checkstops, drain spuds, flexible supply hoses, control valves, color coded water lines, and Class II 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 35-70 PSI.

* <u>Note:</u> Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

Vandal resistance:

The spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the head kit. Valves, water supplies, and waste connections are concealed within the pedestal. Removable access panels are secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:

At the standard 34" adult rim height, all stations are designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines. This excludes Floor Mounted Foot Operated (FO) models.

Optional Features:

AquaFount® washfountains offer liquid soap dispensers as optional accessories. AquaFount® washfountains can be ordered with 31" rim heights for juvenile use (JR).

***Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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6 \ Solid Surface Colore

1.) Washfountain Type: ■ WAF-5406 AquaFount® 6 Station 54" Full Round Deep Bowl Solid Surface Washfountain ■ WAF-5408 AquaFount® 8 Station 54" Full Round Deep Bowl Solid Surface Washfountain 2.) Pedestal Type: ☐ FLR Floor Mounted (Standard) 3.) Junior Height Option: JR Junior Height (31" Rim Height, Not JR. ADA Compliant) 4.) Valve Actuation: Standard Pneumatic Push Buttons for Single ☐ PPB1 Temperature Pneumatic Metering □ PZPB1 Ligature-resistant Piezo Electronic Push Buttons for Single Temperature Electronic (w/ Pneutronic Control)*/** ☐ IR Infrared Sensors, Plug-in' □ во Infrared Sensors, Battery Operated ☐ FO Foot Operated Pneumatic Push Buttons (Not ADA Compliant)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Supply From Above (Option (TSHWF) recommended)

Supply From Below (Standard)

5.) Water Supply:

☐ SB

☐ SA

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0.) Jona Ju	nace colors.
■ BN	Bone
☐ GW	Glacier White
☐ GG	Grey Granite
□ SS	Sandstone
■ WG	White Granite
■ BG	Black Granite
■ NB	Nocturnal Blue
□ RC	Red Coral
☐ SG	Sea Green
7.) Other O	otions:
LSD	Liquid Soap Dispensers (2)
☐ TL	Less In-line Thermostatic Mixing Valve
☐ SSC	Stainless Steel Head Cover (Top Cap)
TSHWF	Telescoping Washfountain Shroud (For use on (SA) models only)

1.5 gpm Laminar Flow Sprayheads

**LIGATURE-RESISTANT DISCLAIMER

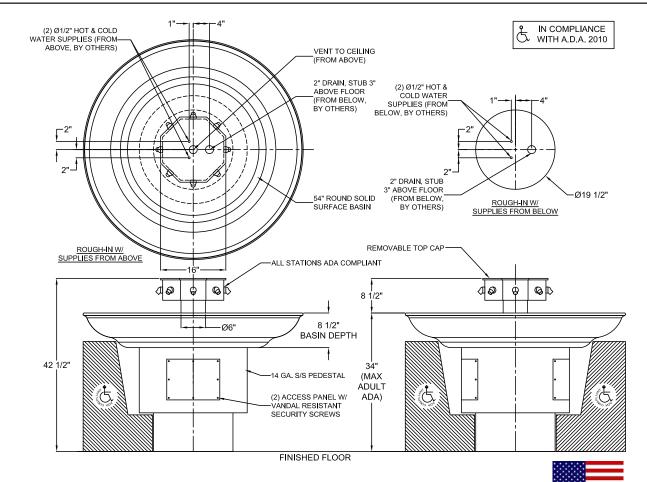
This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		

LSH

Other

Other



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MADE IN THE **U.S.A**.

CES-912

Commercial Hand Sink

Recommended Specifications

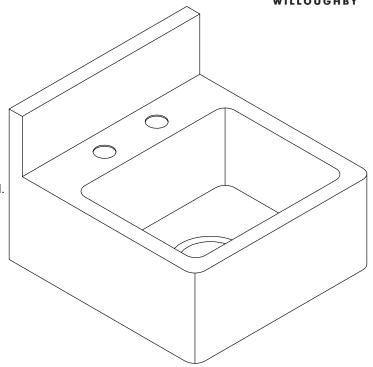
Commercial Hand Sink shall be: Willoughby Model No. CES-912

Fixture shall be fabricated from 16 GA, Type 304 stainless steel. The construction shall be all-welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:

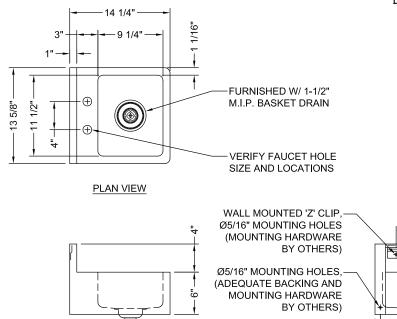
- Rectangular shaped bowl, 11-1/2" x 9-1/4" x 5" deep
- 1-1/2" M.I.P. basket drain
- 4"-on-center deck mounted faucet holes (Faucet by others)

Anchoring shall be from the front with 'Z' clips and anchoring holes, anchoring hardware by others. Unit requires no chase area for installation and maintenance.



(Unit may be shown with optional features)

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SIDE VIEW

12 1/8'

REAR VIEW

3/4"

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CSS-2419 Commercial Service Sink

Recommended Specifications

Commercial Service Sink shall be: Willoughby Model No. **CSS-2419**

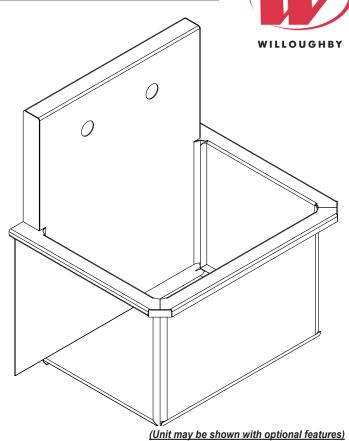
Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be all-welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

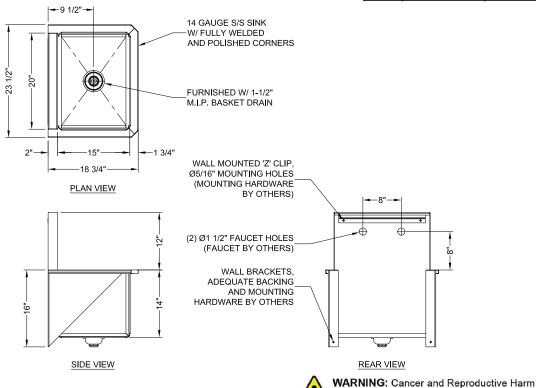
- Rectangular shaped, 20" x 15" x 14" deep sink bowl
- 1-1/2" M.I.P. basket drain

Faucet by others. The service sink is manufactured to ASME A112.19.3/CSA B45.4.

Anchoring shall be from the front with 'Z' clips and anchoring holes, anchoring hardware by others. Unit requires no chase area for installation and maintenance.



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CWMES Series Multiple Station Hand Sink

Recommended Specifications

Multiple Station Hand Sink shall be: Willoughby Model No. **CWMES-___** (select model from table options)

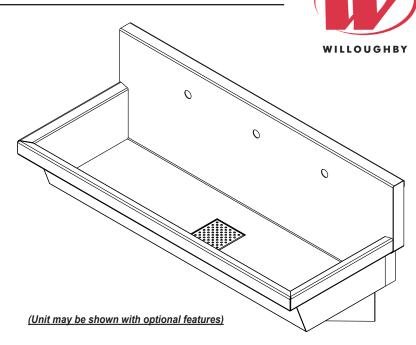
Fixture, including bracing, shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be all-welded with exposed exterior stainless steel surfaces polished to a #4 satin finish.

Standard equipment shall include:

- 5" SQ. flat strainer drain

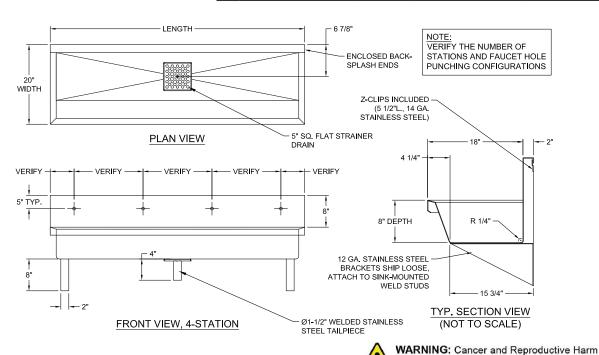
Faucets by others.

Anchoring shall be from the front with Z-clips and mounting holes. Anchoring hardware by others. Unit requires no chase area for installation and maintenance.



1	MODEL NUMBER	LENGTH	WIDTH	DEPTH	FAUCET STATIONS
	CWMES-3620	36"	20"	8"	2
	CWMES-4820	48"	20"	8"	2
	CWMES-6020	60"	20"	8"	3
	CWMES-7220	72"	20"	8"	3
	CWMES-9620	96"	20"	8"	4

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CWWS Commercial Wall Sink

Recommended Specifications

Commercial Wall Sink shall be: Willoughby Model No. CWWS-____ (select model from table)

Fixture shall be fabricated from 14 GA, Type 304 stainless steel with 12 GA stainless steel under-bracing. The construction shall be all-welded with exposed exterior surfaces polished to a #4 satin finish. Bowl interior is a bead-blast finish.

Standard equipment shall include:

- Rectangular stainless steel bowl w/sound-deadened underside
- 1-1/2" O.D. stainless steel legs
- Flanged feet with (3) Ø5/16" holes for floor anchoring
- Z-clip for wall mounting
- 5" square flat strainer
- Ø1-1/2" x 4" long welded stainless steel tailpiece

Unit is field plumbed for faucet connections. Verify faucet hole configurations when ordering.



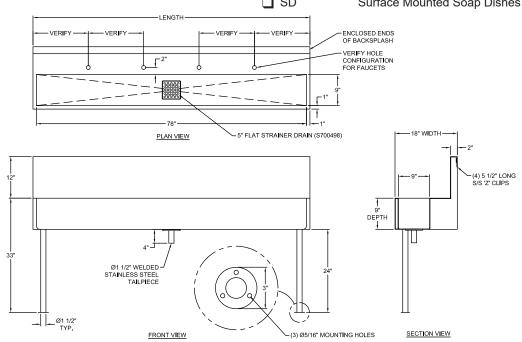
/	MODEL NUMBER	STATIONS	LENGTH	WIDTH
	CWWS-2	2	48"	18"
	CWWS-3	3	62"	18"
	CWWS-4	4	80"	18"
	CWWS-5	5	102"	18"

Other Options:

☐ SD

Surface Mounted Soap Dishes





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CWIS Island Sink

Recommended Specifications

Island sink shall be: Willoughby Model No. **CWIS-___** (select model from model number and options page)

Fixture shall be fabricated from 14 GA, Type 304 stainless steel with 12 GA stainless steel under-bracing. The construction shall be all-welded with exposed exterior surfaces polished to a #4 satin finish. Bowl interior is a bead-blast finish.

Standard equipment shall include:

- Stainless steel bowl and head assembly
- Ø4" stainless support columns
- Ø1-1/2" O.D. stainless steel legs, adjustable flanged feet with (2) Ø5/16" holes for anchoring to the floor
- 2" beehive strainer with Ø2" x 4" long welded-on s/s tailpiece
- sound deadened underside of sink bowl.

Stainless steel head assembly cover is secured with vandal resistant screws. Unit is field plumbed for faucet connections. Verify faucet hole configurations when ordering.

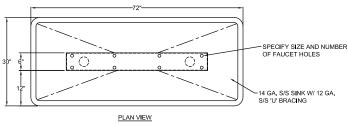


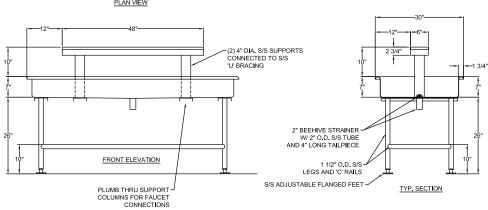
1	MODEL NUMBER	STATIONS	LENGTH	WIDTH
	CWIS-6	6	58"	30"
	CWIS-8	8	72"	30"

Other Options:

■ SD Surface Mounted Soap Dishes

☐ ENB Enclosed Base







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CWMS Series Commercial Mop Sink

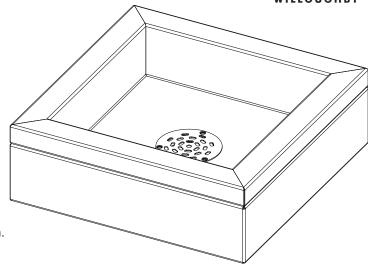
Recommended Specifications

Commercial Mop Sink shall be: Willoughby Model No. **CWMS-__** (select model from table and options list)

Entire fixture shall be fabricated from 16 GA, Type 304 stainless steel. The construction shall be all-welded, with exposed exterior stainless surfaces polished to a #4 satin finish.

Standard equipment shall include: rectangular shaped sink (as selected from table), 3" caulk drain w/ removable strainer.

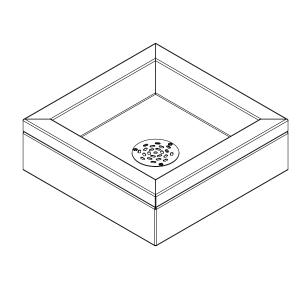
/	MODEL NUMBER	SIZE: A x B x C
	CWMS-24246	24" x 24" x 6"
	CWMS-242412	24" x 24" x 12"
	CWMS-32326	32" x 32" x 6"
	CWMS-323212	32" x 32" x 12"
	CWMS-36366	36" x 36" x 6"
	CWMS-363612	36" x 36" x 12"

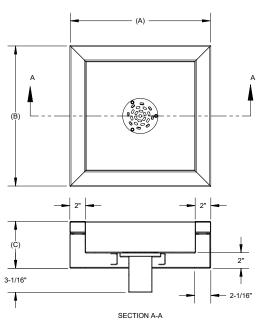


(Unit may be shown with optional features)

Other Options:

- ☐ KH60 60" Long Hose w/ Wall Hanger
- ☐ KMH 3 Mop Hanger- Stainless Steel Bracket
- ☐ KWG24 Stainless Steel Wall Guard 12" x 24", Specify Quantity:____
- ☐ KWG32 Stainless Steel Wall Guard 12" x 32", Specify Quantity:
- KWG36 Stainless Steel Wall Guard 12" x 36", Specify Quantity:







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WILLOUGHE

WMS Series Mop Sink

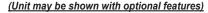
Recommended Specifications

Mop Sink shall be:
Willoughby Model No. **WMS-**(select model from table above).

Entire fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be all-welded, with exposed exterior stainless surfaces polished to a #4 satin finish.

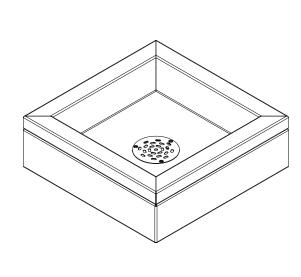
Standard equipment shall include: rectangular shaped sink (as selected from table), 3" caulk drain w/ removable strainer.

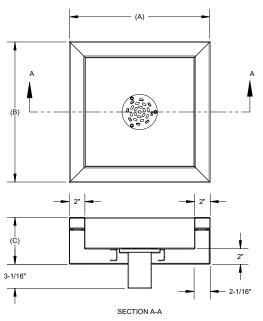
/	MODEL NUMBER	SIZE: A x B x C
	WMS-24246	24" x 24" x 6"
	WMS-242412	24" x 24" x 12"
	WMS-32326	32" x 32" x 6"
	WMS-323212	32" x 32" x 12"
	WMS-36366	36" x 36" x 6"
	WMS-363612	36" x 36" x 12"



Other Options:

- ☐ KH60 60" Long Hose w/ Wall Hanger
- ☐ KMH 3 Mop Hanger- Stainless Steel Bracket
- ☐ KWG24 Stainless Steel Wall Guard 12" x 24", Specify Quantity:
- ☐ KWG32 Stainless Steel Wall Guard 12" x 32", Specify Quantity:_
- ☐ KWG36 Stainless Steel Wall Guard 12" x 36", Specify Quantity:____







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WILLDHEAD

SB-1823 Stainless Steel Shampoo Bowl

Recommended Specifications

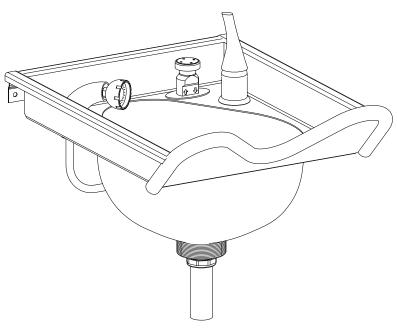
Stainless Steel Shampoo Bowl shall be: Willoughby Model No. **SB-1823**

The shampoo bowl shall accommodate one user at a time and have a contoured neck rest.

Standard shampoo bowl shall be fabricated from 14 GA, Type 304 stainless steel, and includes:

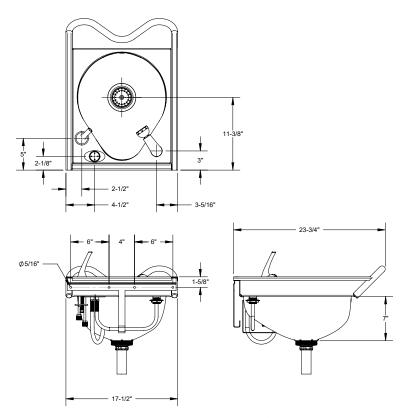
- Stainless steel 3-1/2" basket strainer with drain
- Wall mounting bracket (less wall mounting hardware)

An optional single handle multi-temperature faucet with removable hand-held sprayer and vacuum breaker is available (shown, P/N: WSB-KIT).



(Unit may be shown with optional features)

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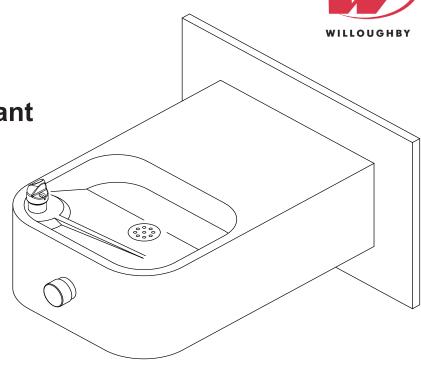
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DF-1812-FA Stainless Steel **Small Profile Handicap-ADA Compliant Front Access Drinking Fountain**





IN COMPLIANCE WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Small Profile, Handicap-ADA Compliant, Front Access Drinking Fountain with standard drinking fountain bubbler, standard single temp. non-metering pneumatic valve and push button, standard removable 'p'-trap, and s/s wall back-panel

Use the following Willoughby Model Number: DF-1812-FA-CDB-PSL1-PLPB-RPT-WPB

Recommended Specifications

Stainless Steel, Small Profile, Handicap-ADA Compliant, Front Access Drinking Fountain shall be: Willoughby Model No. DF-1812-FA (select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all-welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Rectangular-shaped basin with rounded corners. 8-5/8" x 10-3/4" x 2" deep
- Removable stainless steel fast drain
- (CDB) stainless steel drinking fountain bubbler
- (PSL1) Single temperature, non-metering pneumatic valve w/ (PLPB) pneumatic palm push button
- (RPT) slip joint, cast brass union 'p'-trap (1-1/2")
- Removable bottom panel attached w/ vandal resistant screws

Cabinet interior shall be sound deadened with fire-resistant material.

Mounting:

Anchoring shall be from the front with mounting plate. Anchoring hardware by others.

Unit requires no chase area for installation and maintenance.

Vandal Resistance:

All push buttons and escutcheons are secured to the unit from within the fixture. Valves, water supplies and waste connections are concealed within. The bottom panel is removable and secured with vandal resistant security screws.

ADA and ANSI Compliant:

When the drinking fountain is mounted at standard 36" bubbler height, it is designed to comply with applicable ADA and ANSI Z124.3 and Z124.6 accessibility guidelines.

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1.) Drinking Fountain Model: DF-1812-FA

Stainless Steel, Small Profile, Handicap-ADA Compliant, Front Access Drinking Fountain

☐ CDB Drinking Fountain Bubbler (Standard)

3.) Valve Selection:

☐ PSL1 Single Temp. Pneumatic Non-metering (Standard)

4.) Push Button Selection:

☐ PLPB Pneumatic Palm Push Button (Standard)

E \	Drinking	Fountain	Macta:
ວ.,	DITINITIO	rountain	waste.

RPT Slip Joint, Cast Brass Union 'P'-trap (Removable, 1-1/2") (Standard)

6.) Other Options:

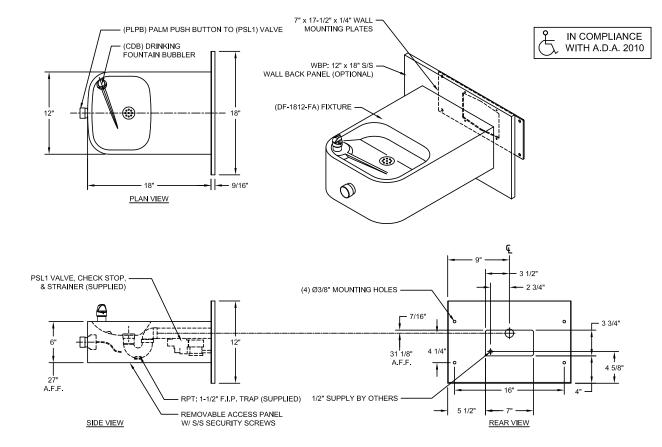
■ MT Wall Template

■ WBP Stainless Steel Wall Back-Panel

□ Other:□ Other:

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____

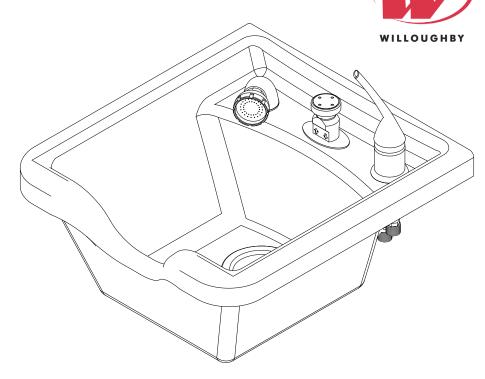




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WSB-1911 Aquasurf® Solid Surface Shampoo Bowl 18" Wide



(SOME OPTIONS MAY BE SHOWN)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an Aquasurf Solid Surface Shampoo Bowl (18" Wide) with single faucet, vacuum breaker, and hand sprayer in Red Coral

Use the following Willoughby Model Number:
WSB-1911-SHF-RC

Recommended Specifications

Aquasurf® Solid Surface Shampoo Bowl (18" Wide) shall be: Willoughby Model No. WSB-1911 (Select from model number and options list on next page)

The 18" Wide Aquasurf® shampoo bowl shall accommodate one user at a time and have a contoured neck rest.

Standard WSB-1911 shampoo bowl shall be fabricated from Aguasurf® Solid Surface material, and includes:

- Stainless steel 3-1/2" basket strainer with drain
- Wall mounting bracket (less wall mounting hardware)

An optional single handle multi-temperature faucet with removable hand-held sprayer and vacuum breaker is available.

Aguasurf® WSB-1911 shall be constructed of molded cast polymer densified solid surface material composed of polyester/acrylic resin. UV stabilizer, aluminum trihydrate, mineral fillers, proprietary colorant and antimicrobial additive*. The Aquasurf® solid surface material is resistant to stains, impact and burns.

Surface damage can be easily repaired with everyday cleaners and/or fine grit abrasives.

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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1.) Base Model Number:

☐ WSB-1911 Aquasurf® Solid Surface Shampoo Bowl (18" Wide)

2.) Hole Selection:

□ NF No Faucet Included (Drilled By Others) ☐ SHF

Single Handle Faucet with Vacuum Breaker

and Hand Held Sprayer

3.) Solid Surface Colors:

Rone

☐ BN ☐ GW Glacier White

☐ GG Grey Granite

ss Sandstone

☐ WG White Granite

☐ BG Black Granite

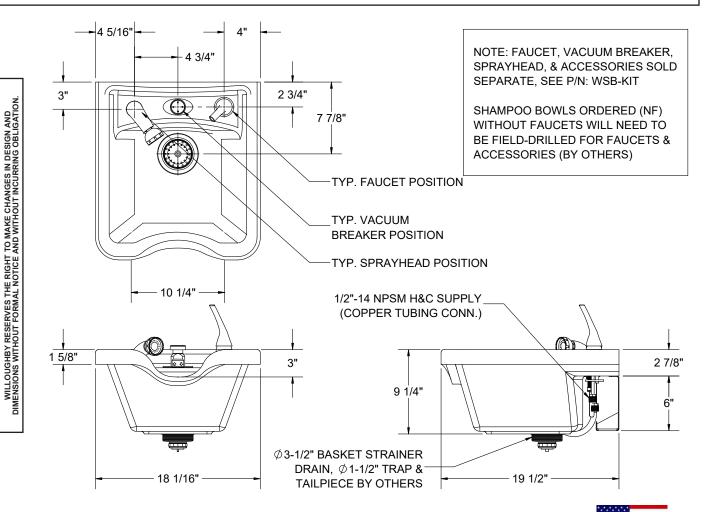
■ NB Nocturnal Blue

□ RC Red Coral ☐ SG Sea Green

4.) Options:

□ Other □ Other

Approved For Manufacturing By: __ Date: ____ _____ Company:_ Wall Thickness: Wall Type:



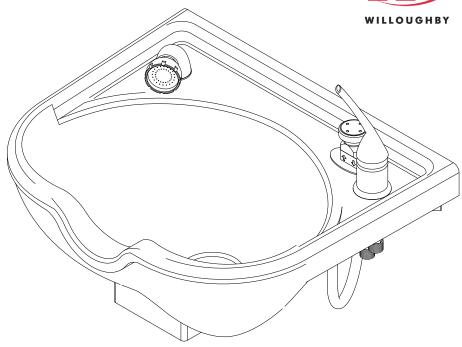
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WSB-2111 **Aquasurf® Solid Surface Shampoo Bowl 22" Wide**



(SOME OPTIONS MAY BE SHOWN)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an Aquasurf Solid Surface Shampoo Bowl (22" Wide) with single faucet, vacuum breaker, and hand sprayer in Red Coral

Use the following Willoughby Model Number:
WSB-2111-SHF-RC

Recommended Specifications

Aquasurf® Solid Surface Shampoo Bowl (22" Wide) shall be: Willoughby Model No. WSB-2111 (Select from model number and options list on next page)

The 22" Wide Aquasurf® shampoo bowl shall accommodate one user at a time and have a contoured neck rest.

Standard WSB-2111 shampoo bowl shall be fabricated from Aguasurf® Solid Surface material, and includes:

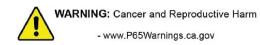
- Stainless steel 3-1/2" basket strainer with drain
- Wall mounting bracket (less wall mounting hardware)

An optional single handle multi-temperature faucet with removable hand-held sprayer and vacuum breaker is available.

Aguasurf® WSB-2111 shall be constructed of molded cast polymer densified solid surface material composed of polyester/acrylic resin. UV stabilizer, aluminum trihydrate, mineral fillers, proprietary colorant and antimicrobial additive*. The Aquasurf® solid surface material is resistant to stains, impact and burns.

Surface damage can be easily repaired with everyday cleaners and/or fine grit abrasives.

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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1.) Base Model Number:

☐ WSB-2111 Aquasurf® Solid Surface Shampoo Bowl (22" Wide)

2.) Hole Selection:

No Faucet Included (Drilled By Others) □ NF

☐ SHF Single Handle Faucet with Vacuum Breaker

and Hand Held Sprayer

3.) Solid Surface Colors:

Rone

☐ BN ☐ GW Glacier White

☐ GG Grey Granite

ss Sandstone

☐ WG White Granite

☐ BG Black Granite ■ NB Nocturnal Blue

☐ RC Red Coral

☐ SG Sea Green

4.) Options:

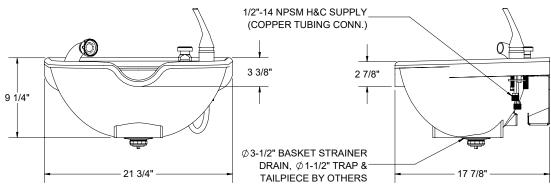
□ Other □ Other

Approved For Manufacturing By: ___ _____ Company:_ Date: ___ Wall Thickness: Wall Type:

TYP. VACUUM BREAKER POSITION 5 1/2" 3" 2 3/4" 3 1/2' 3 13/16" 8 1/2' TYP. FAUCET POSITION TYP. SPRAYHEAD POSITION

NOTE: FAUCET, VACUUM BREAKER, SPRAYHEAD, & ACCESSORIES SOLD SEPARATE, SEE P/N: WSB-KIT

SHAMPOO BOWLS ORDERED (NF) WITHOUT FAUCETS, WILL NEED TO BE FIELD-DRILLED FOR FAUCETS & ACCESSORIES (BY OTHERS)



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HB Series Hose Box



1	MODEL NUMBER		DESCRIPTION
	HB-8140	SINGLE TEMPERATURE HOSE BOX -	WITH WALL FLANGE, LESS DOOR, LESS VACUUM BREAKER
	HB-8141	SINGLE TEMPERATURE HOSE BOX -	WITH WALL FLANGE, LESS DOOR, WITH VACUUM BREAKER
	HB-8145	DUAL TEMPERATURE HOSE BOX -	WITH WALL FLANGE, LESS DOOR, LESS VACUUM BREAKER
	HB-8146	DUAL TEMPERATURE HOSE BOX -	WITH WALL FLANGE, LESS DOOR, WITH VACUUM BREAKER
	HB-8150	SINGLE TEMPERATURE HOSE BOX -	WITH WALL FLANGE, WITH DOOR, LESS VACUUM BREAKER
	HB-8151	SINGLE TEMPERATURE HOSE BOX -	WITH WALL FLANGE, WITH DOOR, WITH VACUUM BREAKER
	HB-8155	DUAL TEMPERATURE HOSE BOX -	WITH WALL FLANGE, WITH DOOR, LESS VACUUM BREAKER
	HB-8156	DUAL TEMPERATURE HOSE BOX -	WITH WALL FLANGE, WITH DOOR, WITH VACUUM BREAKER
	HB-8180	SINGLE TEMPERATURE HOSE BOX -	WITH WASTE, WITH WALL FLANGE, LESS DOOR, LESS VACUUM BREAKER
	HB-8181	SINGLE TEMPERATURE HOSE BOX -	WITH WASTE, WITH WALL FLANGE, LESS DOOR, WITH VACUUM BREAKER
	HB-8185	DUAL TEMPERATURE HOSE BOX -	WITH WASTE, WITH WALL FLANGE, LESS DOOR, LESS VACUUM BREAKER
	HB-8186	DUAL TEMPERATURE HOSE BOX -	WITH WASTE, WITH WALL FLANGE, LESS DOOR, WITH VACUUM BREAKER

Recommended Specifications

HB Series Hose Box shall be:
Willoughby Model No. **HB-___**(Select from model number table shown above)

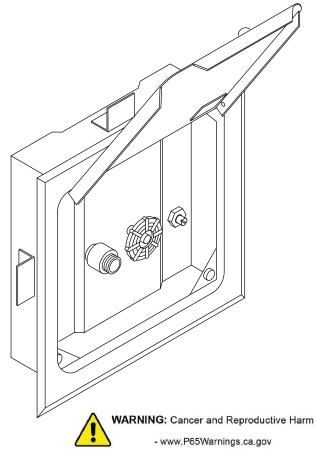
Recessed box, wall flange, waste outlet, and door (if applicable) shall be fabricated from T304 stainless steel with exposed surfaces polished to a satin finish. The wall flange shall mount flush to the supporting finished wall.

Standard equipment shall include:

- 1/2" nominal brass valves and fittings
- screwdriver stops on the inlets

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Inlets shall be 1/2" F.I.P. and outlets are 3/4" M.G.H.T.

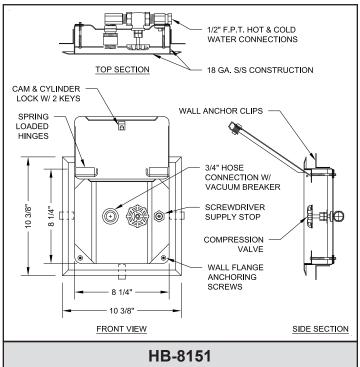


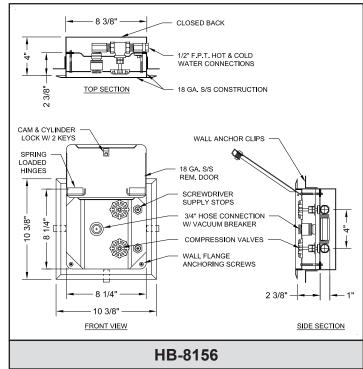
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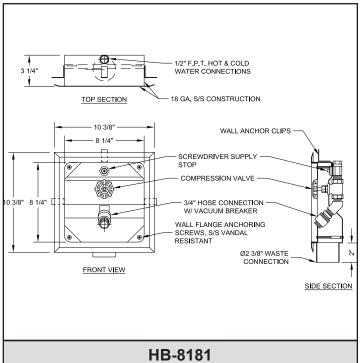


Willoughby Industries - Commercial Ware

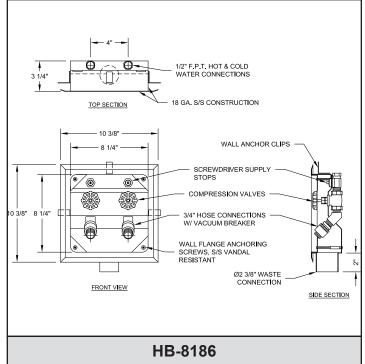






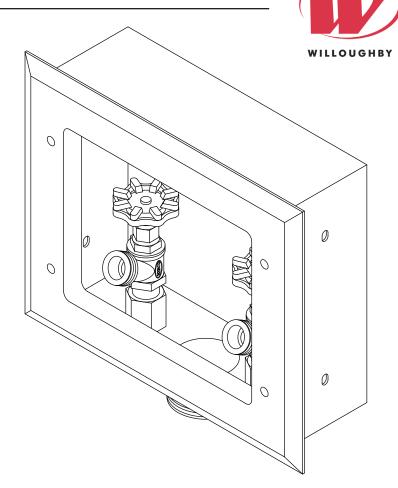


C19-2





HBBD Series Hose Box with Wall Flange and Boiler Drain Valve



Recommended Specifications

HBBD Series Hose Box with Wall Flange and Boiler Drain Valve shall be: Willoughby Model No. **HBBD-**____(Select from model number and options list on next page)

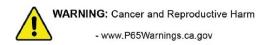
Hose box and wall flange are fabricated from T304 stainless steel with exposed surfaces polished to a satin finish. The wall flange shall mount flush to the supporting finished wall.

Standard equipment shall include:

- 1/2" brass boiler drain valve(s)
- 2" M.I.P. drain

The valve and stop feature tamper-resistant lock-shield bonnets and replaceable cartridges containing all wearing parts.

Supply inlets are 1/2" F.I.P. and outlets are 3/4" M.G.H.T.





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1.) Base Model Number:

☐ HBBD-8251 Single Temperature HBBD Series Hose Box

with Wall Flange and Boiler Drain Valve

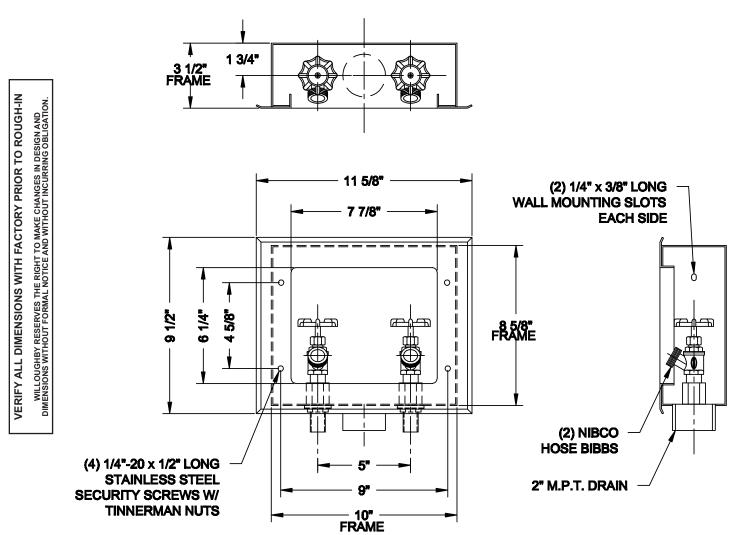
☐ HBBD-8252 Dual Temperature HBBD Series Hose Box

with Wall Flange and Boiler Drain Valve

2.) (Other	Options
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□ Other□ Other

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		



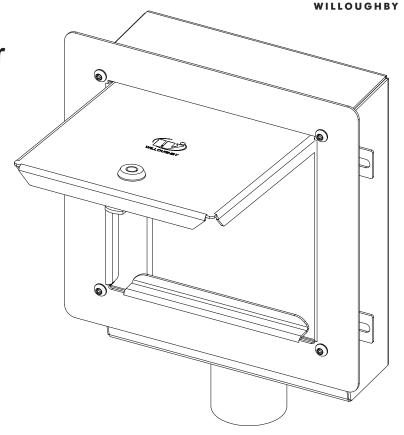
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W)

HB-8200 Recessed Drain Box w/ Wall Flange and Door



Recommended Specifications

Recessed Drain Box shall be: Willoughby Model No. **HB-8200** (Select from model number and options list on next page)

Recessed Drain Box is a Type 304 stainless steel (Type 316 optional), recessed wall box designed to be used with plumbing equipment provided by others. The wall box, wall flange, and locking door shall be fabricated from stainless steel, seam-welded water-tight, with surfaces flush to the supporting wall.

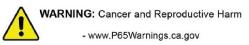
Standard features include:

Drain Box / Receptor:

- The box and receptor will have a standard glass-blast finish.
- The waste receptor/outlet is a Ø2-3/8" OD stainless steel tailpiece.
 The tailpiece can be connected directly to a nominal Ø2" drain line with a mechanical coupling.

Wall Flange and Door:

- Both the wall flange and door will have standard #3 satin finishes.
- Wall flange is designed to cover any space between the wall and box and is securely anchored with security screws at each corner.
- The locking door comes standard with cam cylinder lock and two keys.



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1.) Base Model Number:

☐ HB-8200 Recessed Drain Box w/ Wall Flange and Door

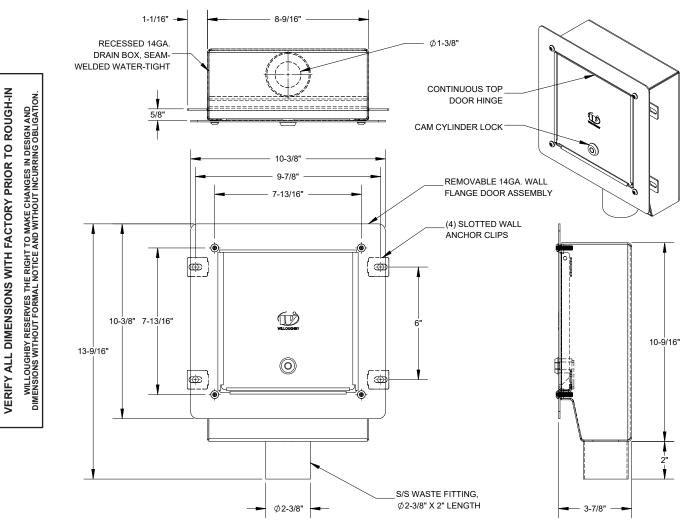
2.) Other Options:

☐ 316 T316 Stainless Steel Fixture ☐ LDR Less Wall Flange and Door

Other

Other

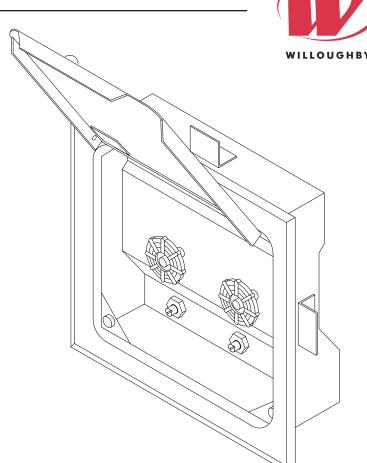
Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____



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RSB-8201 Dual Temperature Remote Supply Box



Recommended Specifications

Dual Temperature Remote Supply Box shall be: Willoughby Model No. **RSB-8201** (Select from model number and options list on next page)

Remote supply wall box is 18 GA, Type 304 stainless steel with a glass blast finish interior, and exposed surfaces polished to a satin finish. The wall box exterior includes mounting clips for anchoring the box to the wall construction.

Removable stainless steel wall flange is 16 GA, Type 304 stainless steel and includes a removable locking door with cylinder lock. Door hinges are concealed type, and door is easily removed after opening by releasing the hinge pins. Exterior wall flange and door are polished to a satin finish.

Standard equipment shall include:

- 1/2" compression valves
- Atmospheric vacuum breaker
- Screwdriver stops (allow servicing the control valve without shutting down the water supply)
- Removable cylinder lock and two keys

The valve and stop feature tamper-resistant lock-shield bonnets and replaceable cartridges containing all wearing parts.



Supply inlet is 1/2" F.I.P.

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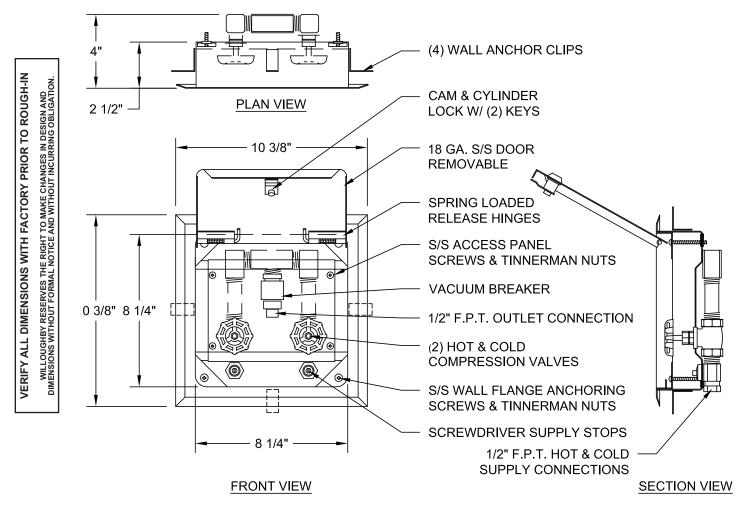
1.)	Base	Model	Number	:
-----	------	-------	--------	---

☐ RSB-8201 Dual Temperature Remote Supply Box

2.) Other Options:

□ Other□ Other

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		



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HEALTHCARE PRODUCTS	
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CWSSS Series Commercial Surgical Scrub Sink



To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a single station Commercial Surgical Scrub Sink with standard temp/pressure-balancing mixing valve, standard knee-activated water actuator, and in-wall mounting carrier

Use the following Willoughby Model Number: CWSSS-1-TPV-KA-MC

Recommended Specifications

Commercial Surgical Scrub Sink shall be: Willoughby Model No. **CWSSS** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be all-welded with exposed exterior stainless steel surfaces polished to a #4 satin finish. Bowl shall have a bead-blast finish.

Standard equipment shall include:

- Knee-activated mechanical pilot-type water valves, activated by one push of a knee-operated front panel and turned off by a second push of the panel
- Faucet panel-mounted temperature/pressure mixing valves
- Gooseneck faucets with laminar flow nozzles
- Machined stainless steel drain with tailpiece
- 1-1/2" F.I.P. slip joint, cast brass union 'P' trap

Anchoring shall be from the front with 'Z' clip and wall anchoring hardware (by others); a wall mounting carrier or mounting base is available as optional equipment. Unit requires no chase area for installation and maintenance.

Units are provided with front panels which are easily removed for access to valves and waste connections.

Optional Features:

- IR- Infrared Sensor Actuated Water Valves
- Mounting Carrier
- Mounting Base
- · Liquid Soap Dispensers- Knee-activated, Hydraulic
- Storage Shelf
- · Light Module- with Built-in Storage Shelf
- Digital Time Display
- · Swing-down Eye Wash Stations

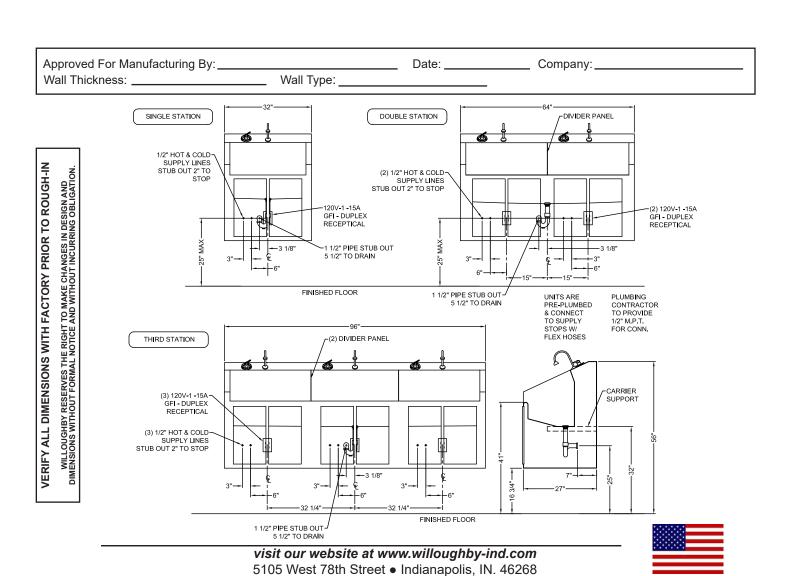
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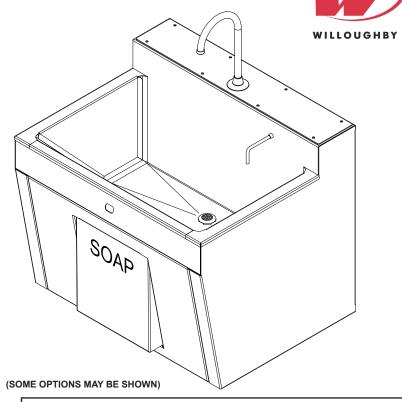
1.) Base M	odel:	5.) Mounti	ng Options:
☐ CWSSS	Commercial Surgical Scrub Sink		'Z' Clips (Wall anchors by others) (Standard)
		□ MC	Mounting Carrier (off-floor installation)
2.) Numbe	r of Stations:	■ MB	Mounting Base (on-floor installation)
1	Single Station		
2	Two Station (with 1 Divider Panel)	6.) Option	s:
3	Three Station (with 2 Divider Panels)	☐ LSD	Liquid Soap Dispensers (Knee-activated hydraulic)
		☐ LM	Light Module w/ Storage Shelf
3.) Temper	ature Controls:		(Field-wired to 120V-15A wall switch, by others)
■ TPV	Temperature/Pressure-balancing Mixing Valves -Above Deck (Standard)	☐ SHLF	Storage Shelf
PBV	Pressure-Balancing Mixing Valves- Above Deck	DTD	Digital Time Display*
■ TMV	Inline Thermostatic Mixing Valves	□ SDEW	Swing Down Eye Wash (Mixing valve by others)
		Other:	
4.) Water A	ctuators:	Other:	
□ KA	Knee-activated Actuators (Standard)		
□ IR	Infrared Sensor Actuators*	*(Req. 11	IOV power through ground fault interrupter (GFCI) receptacle)



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EWSSS Series Economy Surgical Scrub Sink



To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an single station Economy Surgical Scrub Sink with standard thermostatic mixing valve, infrared sensor actuation, in-wall mounting carrier, and knee-activated liquid soap dispenser

Use the following Willoughby Model Number: EWSSS-1-TMV-IR-MC-LSD

Recommended Specifications

Economy Surgical Scrub Sink shall be: Willoughby Model No. **EWSSS** (Select from model number and options list on next page)

Fixture shall be fabricated from 16 GA, Type 304 stainless steel. The construction shall be all-welded with exposed exterior stainless steel surfaces polished to a #4 satin finish. Bowl shall have a bead-blast finish.

Standard equipment shall include:

- Knee-activated mechanical pilot/actuator-type water valves, activated by one push of a knee-operated front panel and turned off by a second push of the panel
- Gooseneck faucets with laminar flow nozzles
- Inline thermostatic mixing valves
- Machined stainless steel drain with tailpiece
- 1-1/2" F.I.P. slip joint, cast brass union 'P' trap.

Anchoring shall be from the front with 'Z' clip and wall anchoring hardware (by others); a wall mounting carrier or mounting base is available as optional equipment. Unit requires no chase area for installation and maintenance. Two- and Three-stations shall include divider panels.

Units are provided with front panels which are easily removed for access to valves and waste connections.

Optional Features:

- IR- Infrared Sensor Actuated Water Valves
- Temperature/Pressure-balancing Mixing Valves
- · Liquid Soap Dispensers- Knee-activated, Hydraulic
- Mounting Carrier
- Mounting Base
- Swing-down Eye Wash Stations

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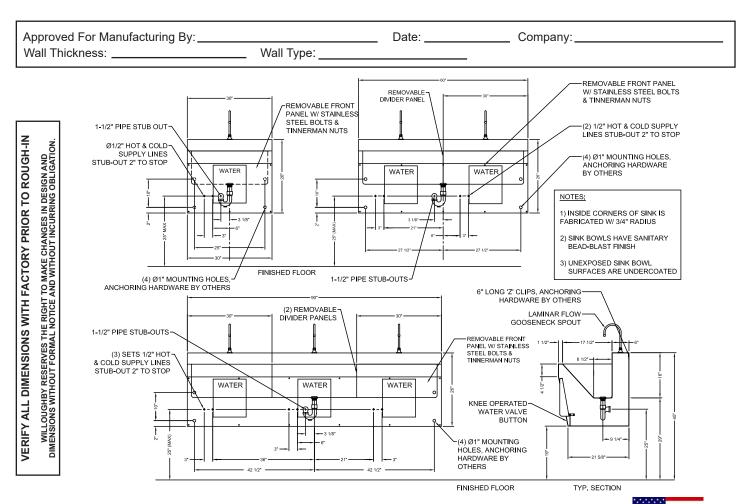
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1.) Base Model: ■ EWSSS Economy Surgical Scrub Sink 2.) Number of Stations: 1 Single Station **2** Two Station (with 1 Divider Panel) Three Station (with 2 Divider Panels) **3** 3.) Temperature Controls: ■ TMV Inline Thermostatic Mixing Valves - Below Deck (Standard) ☐ TPV Temperature/Pressure-balancing Mixing Valves- Above Deck PBV Pressure-Balancing Mixing Valves- Above Deck 4.) Water Actuators: Knee-activated Actuators (Standard) □ KA □ IR Infrared Sensor Actuators*

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

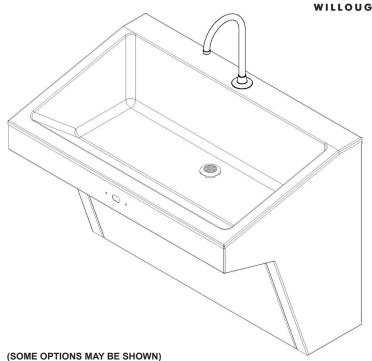
5.) Mountir	ng Options:
	'Z' Clips (Wall anchors by others) (Standard)
□ MC	Mounting Carrier (off-floor installation)
■ MB	Mounting Base (on-floor installation)
6.) Options LSD SDEW Other: Other:	Liquid Soap Dispensers (Knee-activated hydraulic) Swing Down Eye Wash (Mixing valve by others)



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WSSS-ADA Series ADA-Compliant Surgical Scrub Sink





To specify fixture and acco

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a single station ADA-Compliant Surgical Scrub Sink with standard thermostatic mixing valve, standard infrared sensor actuation, and in-wall mounting carrier

Use the following Willoughby Model Number: WSSS-ADA-1-TMV-IR-MC

Recommended Specifications

ADA-Compliant Surgical Scrub Sink shall be: Willoughby Model No. **WSSS-ADA** (Select from model number and options list on next page)

Fixture shall be fabricated from 16 GA, Type 304 stainless steel. The construction shall be welded with exposed exterior stainless steel surfaces polished to a #4 satin finish. Bowl shall have a bead-blast finish.

Standard equipment shall include:

- Infrared sensor actuated water valves
- Gooseneck faucets with laminar flow nozzles
- Inline thermostatic mixing valves
- Machined stainless steel drain with tailpiece
- 1-1/2" F.I.P. slip joint, cast brass union 'P' trap

Anchoring shall be from the front with 'Z' clip and wall anchoring hardware (by others); a wall mounting carrier or mounting base is available as optional equipment. Unit requires no chase area for installation and maintenance. Two- and Three-stations shall include divider panels.

Units are provided with front panels which are easily removed for access to valves and waste connections.

Optional Features:

Mounting Carrier



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Other:

Other:

1.) Base Model: ■ WSSS-ADA ADA-Compliant Surgical Scrub Sink 2.) Number of Stations: 1 Single Station **2** Two Station (with 1 Divider Panel) Three Station (with 2 Divider Panels) **3** 3.) Temperature Controls: ■ TMV Inline Thermostatic Mixing Valves (Standard) 4.) Water Actuators: ☐ IR Infrared Sensor Actuators (Standard)*

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

1-1/2" PIPE STUB OUT-

1/2" HOT & COLD SUPPLY LINES

5.) Woun	ting Options:
	'Z' Clips (Wall anchors by others) (Standard)
□ MC	Mounting Carrier (off-floor installation)
6 \ Ontion	

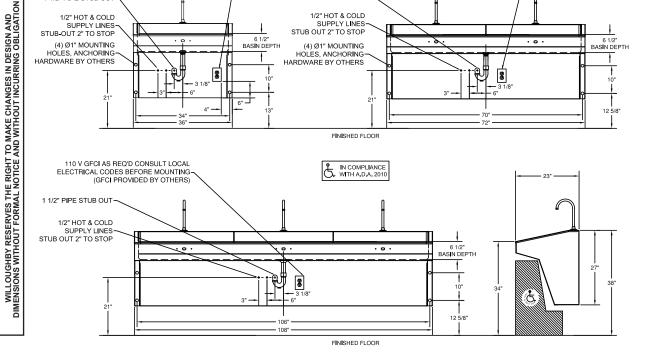
Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		

110V (GFCI) AS REQ'D CONSULT LOCAL

ELECTRICAL CODES BEFORE MOUNTING (GFCI PROVIDED BY OTHERS)

1 1/2" PIPE STUB OUT

1/2" HOT & COLD



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110 V GFCI AS REQ'D CONSULT LOCAL

ELECTRICAL CODES BEFORE MOUNTING

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN



AS-S3636ADA Aquasurf® Solid Surface 36x36 ADA-Compliant Transfer Shower Base

Transfer Shower Base
w/ Integral Rear Trench Drain



Recommended Specifications

Aquasurf® Solid Surface, 36x36, ADA-Compliant, Transfer Shower Base with Integral Rear Trench Drain shall be: Willoughby Model No. **AS-S3636ADA** (Select from model number and options list on next page)

Aquasurf® solid surface shower bases are designed for single- and multiple-applications. The shower base shall be a monolithic component cast from Aquasurf® polymer materials, composed of fully densified aluminum trihydrate mineral fillers, homogeneously blended in an engineered, UV stabilized, acrylic modified polyester resin, and antimicrobial additive**.

ADA accessibility shall incorporate a rear drain with integrally sloped trench, allowing for unobtrusive and complete draining of the shower area. The rear drain is available in Left, Center, and Right configurations to best suit individual installations.

(Consult local code requirements for ADA design integration.)

The shower base shall have integrally molded support bracing on bottom; negative sloped non-slip textured interior floor; integral perimeter flanges, threshold, and curb; and 2" no-hub drain connection

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an Aquasurf® Solid Surface, 36x36, ADA-Compliant, Transfer Shower Base with Integral Rear Trench Drain with Center drain in Grey Granite

Use the following Willoughby Model Number:
AS-S3636ADA-C-GG

Durability and Biological Resistance:

Aquasurf® Solid Surface Products Shower Bases offer high impact, chip, scratch and burn resistance. Topical surface damages can easily be repaired with minor abrasive applications (3M #7448 Scotch-Brite™). The viral, bacteriological, chemical, mildew, and mold resistance provides a sanitary, easily cleaned, durable, low maintenance component.

Optional Features:

Aquasurf® Solid Surface Products wall panel kit is an available option. Wall panel kits come with color-matched overlay battens, coved corners, and soap/shampoo assemblies, providing all components required for a complete shower area enclosure (refer to Model Number and Options sheet for option designation).

**Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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1.) Base Type:

☐ AS-S3636ADA Aquasurf® Solid Surface, 36x36, ADA-Compliant,

Transfer Shower Base with Integral Rear Trench Drain

2.) Drain Position (See Drawing Below):

Left Drain □ C Center Drain

☐ R Right Drain

3.) Solid Surface Colors:

□ BN

☐ GW Glacier White

GG Grey Granite

□ SS Sandstone

■ WG White Granite ☐ BG Black Granite

■ NB Nocturnal Blue

Red Coral RC ☐ SG Sea Green 4.) Commercial Wall Kit Option (1/4" Panels):

☐ ASK-S3636ADA (3) 36" x 84" Panels

(2) (AS-IS-CV8) Inside Corner Cove Overlay

5.) Accessories:

☐ AS-SSH Soap/Shampoo Holder

☐ LRD36 Ligature Resistant Trench Drain Cover*

*LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

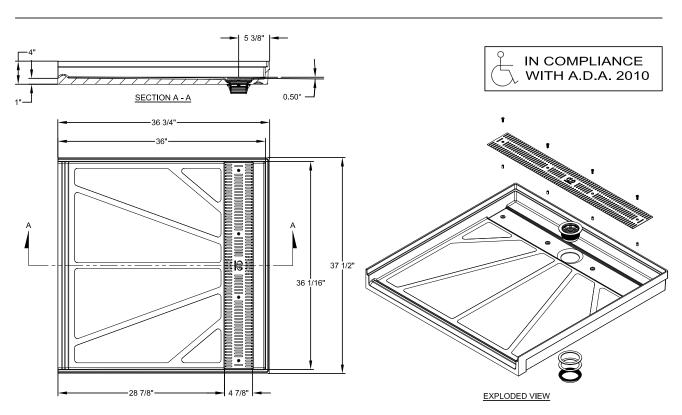
Approved For Manufacturing By: Company: Date:



AS-S3636ADA-L (LEFT DRAIN)

AS-S3636ADA-C (CENTER DRAIN)

AS-S3636ADA-R (RIGHT DRAIN)



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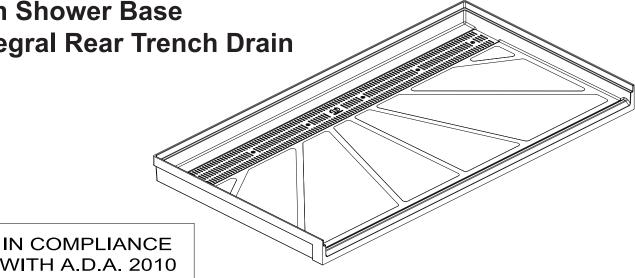
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Recommended Specifications

Aquasurf® Solid Surface, 30x60, ADA-Compliant, Roll-in Shower Base with Integral Rear Trench Drain shall be: Willoughby Model No. **AS-S3060ADA** (Select from model number and options list on next page)

Aquasurf® solid surface shower bases are designed for single- and multiple-applications. The shower base shall be a monolithic component cast from Aquasurf® polymer materials, composed of fully densified aluminum trihydrate mineral fillers, homogeneously blended in an engineered, UV stabilized, acrylic modified polyester resin, and antimicrobial additive**.

ADA accessibility shall incorporate a rear drain with integrally sloped trench, allowing for unobtrusive and complete draining of the shower area. The rear drain is available in Left, Center, and Right configurations to best suit individual installations. (Consult local code requirements for ADA design integration.)

The shower base shall have integrally molded support bracing on bottom; negative sloped non-slip textured interior floor; integral perimeter flanges, threshold, and curb; and 2" no-hub drain connection. The full-width drain grate will securely cover the drain trench while allowing water to effectively drain from anywhere in the shower (drain grate secured to base w/ (6) security screws).

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an Aquasurf® Solid Surface, 30x60 ADA-Compliant, Roll-in Shower Base with Integral Rear Trench Drain with Center drain in Sea Green

Use the following Willoughby Model Number:
AS-S3060ADA-C-SG

Durability and Biological Resistance:

Aquasurf® Solid Surface Products Shower Bases offer high impact, chip, scratch and burn resistance. Topical surface damages can easily be repaired with minor abrasive applications (3M #7448 Scotch-Brite™). The viral, bacteriological, chemical, mildew, and mold resistance provides a sanitary, easily cleaned, durable, low maintenance component.

Optional Features:

Aquasurf® Solid Surface Products wall panel kit is an available option. Wall panel kits come with color-matched overlay battens, coved corners, and soap/shampoo assemblies, providing all components required for a complete shower area enclosure (refer to Model Number and Options sheet for option designation).

**Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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1.) Base Type:

☐ AS-S3060ADA Aquasurf® Solid Surface, 30x60, ADA-Compliant,

Roll-in Shower Base with Integral Rear Trench Drain

2.) Drain Position (See Drawing Below):

Left Drain □ C Center Drain ☐ R Right Drain

3.) Solid Surface Colors:

- □ BN
- ☐ GW Glacier White
- ☐ GG Grey Granite
- □ SS Sandstone White Granite
- WG ☐ BG Black Granite
- NB Nocturnal Blue RC Red Coral
- ☐ SG Sea Green

4.) Commercial Wall Kit Option (1/4" Panels):

☐ ASK-S3060ADA (2) 33-1/4" x 84" Panels

(2) 29-1/2" x 84" Panels

(1) 3" x 84" Overlay

(2) (AS-IS-CV8) Inside Corner Cove Overlay

5.) Accessories:

AS-SSH Soap/Shampoo Holder

☐ LRD60 Ligature Resistant Trench Drain Cover*

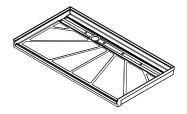
*LIGATURE-RESISTANT DISCLAIMER

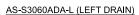
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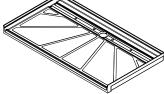
Approved For Manufacturing By:

Date:

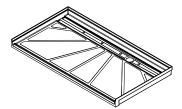
Company:







AS-S3060ADA-C (CENTER DRAIN)

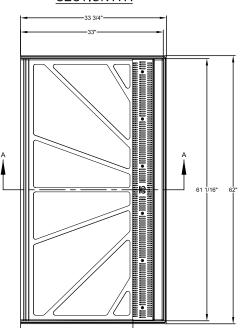


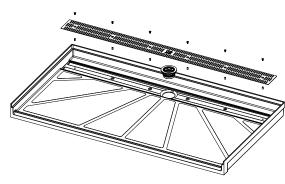
AS-S3060ADA-R (RIGHT DRAIN)











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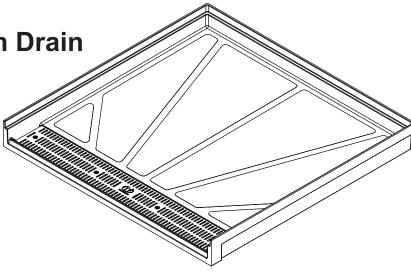
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AS-S3636ADAF
Aquasurf® Solid Surface
36x36 ADA-Compliant
Transfer Shower Base

Transfer Shower Base w/ Integral Front Trench Drain





Recommended Specifications

Aquasurf® Solid Surface, 36x36, ADA-Compliant, Transfer Shower Base with Integral Front Trench Drain shall be: Willoughby Model No. **AS-S3636ADAF** (Select from model number and options list on next page)

Aquasurf® Solid Surface Products Shower Bases are designed for single and multiple applications. The Shower Base shall be a monolithic cast component of Aquasurf® Solid Surface Products polymer materials, composed of fully densified aluminum trihydrate mineral fillers, homogeneously blended in an engineered, UV stabilized, acrylic modified polyester resin, and antimicrobial additive**.

ADA accessibility shall incorporate a front drain with integrally sloped trench, allowing for complete draining of the shower area. The front drain is available in Left, Center, and Right configurations to best suit individual installations.

(Consult local code requirements for ADA design integration.)

The shower base shall have integrally molded support bracing on bottom; negative sloped non-slip textured interior floor; integral perimeter flanges, threshold, and curb; and 2" no-hub drain connection.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an Aquasurf® Solid Surface, 36x36, ADA-Compliant, Transfer Shower Base with Integral Front Trench Drain with Center Drain in Glacier White

Use the following Willoughby Model Number:

AS-S3636ADAF-C-GW

Durability and Biological Resistance:

Aquasurf® Solid Surface Products Shower Bases offer high impact, chip, scratch and burn resistance. Topical surface damages can easily be repaired with minor abrasive applications (3M #7448 Scotch-Brite™). The viral, bacteriological, chemical, mildew, and mold resistance provides a sanitary, easily cleaned, durable, low maintenance component.

Optional Features:

Aquasurf® Solid Surface Products wall panel kits with overlay battens, coved corners and soap/shampoo assemblies provide all components required to complete shower area enclosure (refer to selection sheet for unit designation).

**Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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1.) Base Type:

☐ AS-S3636ADAF

Aquasurf® Solid Surface, 36x36, ADA-Compliant, Transfer Shower Base with Integral Front Trench Drain

2.) Drain Position (See Drawing Below):

□ L Left Drain□ C Center Drain

R Right Drain

3.) Solid Surface Colors:

☐ BN Bone

Glacier White

☐ GG Grey Granite

☐ SS Sandstone

□ WG White Granite□ BG Black Granite

☐ NB Nocturnal Blue

□ RC Red Coral□ SG Sea Green

4.) Commercial Wall Kit Option (1/4" Panels):

☐ ASK-S3636ADA (3) 36" x 84" Panels

(2) (AS-IS-CV8) Inside Corner Cove Overlay

5.) Accessories:

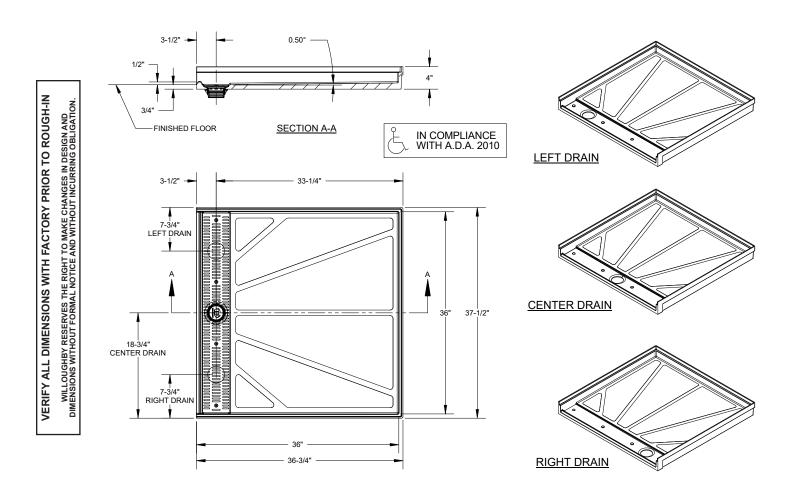
☐ AS-SSH Soap/Shampoo Holder

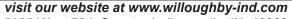
☐ LRD36 Ligature Resistant Trench Drain Cover*

*LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

Approved For Manufacturing By:	Date:	Company:

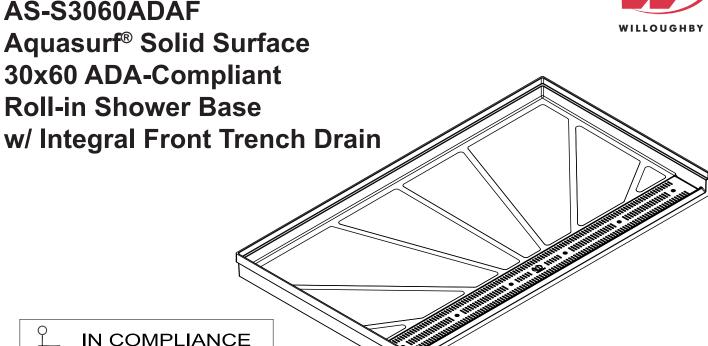




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Recommended Specifications

Aquasurf® Solid Surface, 30x60, ADA-Compliant, Roll-in Shower Base with Integral Front Trench Drain shall be: Willoughby Model No. **AS-S3060ADAF**

WITH A.D.A. 2010

(Select from model number and options list on next page)

Aquasurf® Solid Surface Products Shower Bases are designed for single and multiple applications. The Shower Base shall be a monolithic cast component of Aquasurf® Solid Surface Products polymer materials, composed of fully densified aluminum trihydrate mineral fillers, homogeneously blended in an engineered, UV stabilized, acrylic modified polyester resin, and antimicrobial additive**.

ADA accessibility shall incorporate a front drain with integrally sloped trench, allowing for complete draining of the shower area. The front drain is available in Left, Center, and Right configurations to best suit individual installations.

(Consult local code requirements for ADA design integration.)

The shower base shall have integrally molded support bracing on bottom; negative sloped non-slip textured interior floor; integral perimeter flanges, threshold, and curb; and 2" no-hub drain connection.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an Aquasurf® Solid Surface, 30x60, ADA-Compliant, Transfer Shower Base with Integral Front Trench Drain with Center Drain in Glacier White

Use the following Willoughby Model Number:

AS-S3060ADAF-C-GW

Durability and Biological Resistance:

Aquasurf® Solid Surface Products Shower Bases offer high impact, chip, scratch and burn resistance. Topical surface damages can easily be repaired with minor abrasive applications (3M #7448 Scotch-Brite™). The viral, bacteriological, chemical, mildew, and mold resistance provides a sanitary, easily cleaned, durable, low maintenance component.

Optional Features:

Aquasurf® Solid Surface Products wall panel kits with overlay battens, coved corners and soap/shampoo assemblies provide all components required to complete shower area enclosure (refer to selection sheet for unit designation).

**Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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1.) Base Type:

☐ AS-S3060ADAF

Aquasurf® Solid Surface, 30x60, ADA-Compliant, Roll-in Shower Base with Integral Front Trench Drain

2.) Drain Position (See Drawing Below):

□ L Left Drain□ C Center Drain

R Right Drain

3.) Solid Surface Colors:

☐ BN Bone

Glacier White

☐ GG Grey Granite

□ SS Sandstone□ WG White Granite

■ BG Black Granite

□ NB Nocturnal Blue□ RC Red Coral

SG Sea Green

4.) Commercial Wall Kit Option (1/4" Panels):

☐ ASK-S3060ADA (2) 33-1/4" x 84" Panels

(2) 29-1/2" x 84" Panels

(1) 3" x 84" Overlay

(2) (AS-IS-CV8) Inside Corner Cove Overlay

5.) Accessories:

☐ AS-SSH Soap/Shampoo Holder

☐ LRD60 Ligature Resistant Trench Drain Cover*

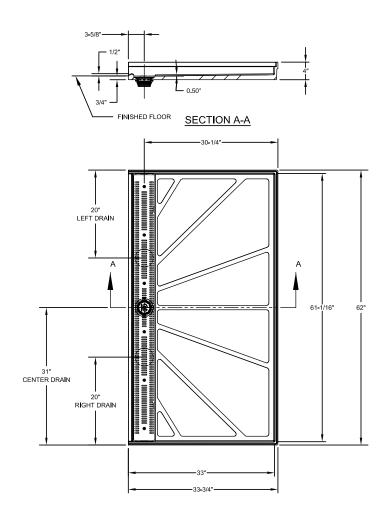
*LIGATURE-RESISTANT DISCLAIMER

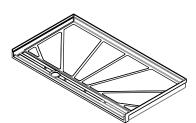
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Approved For Manufacturing By:	Date:	Company:	

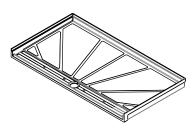
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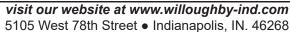
AS-S3060ADAF-L (LEFT DRAIN)



AS-S3060ADAF-C (CENTER DRAIN)



AS-S3060ADAF-R (RIGHT DRAIN)

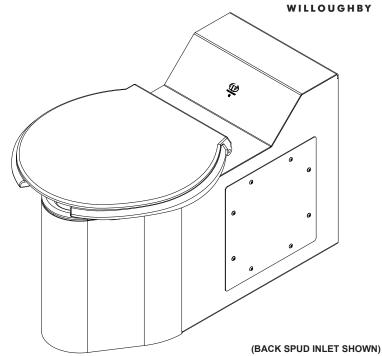




BETW-1490-FM-FA Bariatric Front Mounted Wall Outlet Floor Mounted Blowout Series Toilet







To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Front Access, Wall Outlet, Blowout Series Bariatric Toilet with back spud, flush valve and wall mounted recessed tissue holder

Use the following Willoughby Model Number: BETW-1490-FM-FA-BS-FV-RTH1

Recommended Specifications

Bariatric, Front Mounted, Wall Outlet, Floor Mounted, Blowout Series Toilet shall be: Willoughby Model No. **BETW-1490-FM-FA** (Select from model number and options list on next page)

Fixture shall be fabricated from heavy gauge, Type 304 stainless steel. The construction shall be all-welded. Fixture exterior shall have an antimicrobial gloss white powder coat enamel finish*. Toilet bowl interior shall have a sanitary bead-blast stainless steel finish.

Standard toilet shall include: elongated toilet bowl with integral contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 3-1/2" seal. Toilet shall be siphon jet type which requires 35 psi minimum flushing pressure. Hinged toilet seat shall have open front with cover and be rated for a 1200 pound weight capacity. Toilet seat hinges are stainless steel, seat and cover shall be white in color.

The fixture (less hinged seat) shall withstand loadings up to 2000 pounds with no measurable deflection and loadings up to 5000 pounds with no permanent damage.

Anchoring shall be from the front thru (2) 12" x 12" removable access panels. The fixture is provided with three (3) 7/8" wall carrier mounting holes and one (1) floor mounted 'Z' clip mounting bracket. Wall and floor anchoring hardware is by others. The fixture is floor mounted and is designed to mate with a three (3) bolt blowout carrier.

On back to back fixture installations, do not use standard cross type waste fittings: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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1.) Base	Model	Number:

□ BETW-1490-FM-FA Bariatric, Front Mounted, Wall Outlet, Floor Mounted, Blowout Series Toilet

2.) Inlet Location:

□ BS Back Spud□ TS Top Spud

3.) Flush Valve:

☐ FV Hydraulic Flush Valve (Includes Actuator)

□ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf) □ 3.5 GPF (13.2 Lpf)**

■ NFV No Flush Valve (Provided by Others)

4.) Options:

□ BL Bedpan Lugs□ SLL Seat Less Lid

☐ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)*

☐ FVT Flush Valve Connection

☐ APFM Flush Valve Access Panel Front Mounted (Allows access to chase mounted flush valve from fixture side)

■ MT Metal Template

☐ RTH2 Front Access Wall Mounted Recessed Tissue Holder

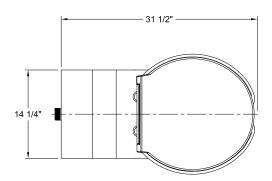
*LIGATURE-RESISTANT DISCLAIMER

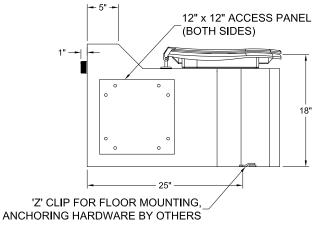
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**For replacement fixtures only

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		

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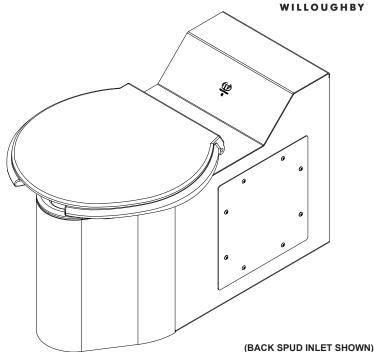
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BETWS-1490-FM-FA Bariatric Front Mounted Wall Outlet Floor Mounted Siphon Jet Series Toilet







To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Front Access, Wall Outlet, Siphon Jet Series Bariatric Toilet with back spud, flush valve and wall mounted recessed tissue holder

Use the following Willoughby Model Number:

BETWS-1490-FM-FA-BS-FV-RTH1

Recommended Specifications

Bariatric, Front Mounted, Wall Outlet, Floor Mounted, Siphon Jet Series Toilet shall be: Willoughby Model No. **BETWS-1490-FM-FA** (Select from model number and options list on next page)

Fixture shall be fabricated from heavy gauge, Type 304 stainless steel. The construction shall be all-welded. Fixture exterior shall have an antimicrobial gloss white powder coat enamel finish*. Toilet bowl interior shall have a sanitary bead-blast stainless steel finish.

Standard toilet shall include: elongated toilet bowl with integral contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 3-1/2" seal. Toilet shall be siphon jet type which requires 35 psi minimum flushing pressure. Hinged toilet seat shall have open front with cover and be rated for a 1200 pound weight capacity. Toilet seat hinges are stainless steel, seat and cover shall be white in color.

The fixture (less hinged seat) shall withstand loadings up to 2000 pounds with no measurable deflection and loadings up to 5000 pounds with no permanent damage.

Anchoring shall be from the front thru (2) 12" x 12" removable access panels. The fixture is provided with four (4) 7/8" wall carrier mounting holes and one (1) floor mounted 'Z' clip mounting bracket. Wall and floor anchoring hardware is by others. The fixture is floor mounted and is designed to mate with a four (4) bolt siphon-jet carrier.

On back to back fixture installations, do not use standard cross type waste fittings: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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1.) Base	Model	Number:

□ BETWS-1490-FM-FA Bariatric, Front Mounted, Wall Outlet, Floor Mounted, Siphon Jet Series Toilet

2.) Inlet Location:

□ BS Back Spud□ TS Top Spud

3.) Flush Valve:

☐ FV Hydraulic Flush Valve (Includes Actuator)

□ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf) □ 3.5 GPF (13.2 Lpf)**

■ NFV No Flush Valve (Provided by Others)

4.) Options:

□ BL Bedpan Lugs□ SLL Seat Less Lid

☐ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)*

☐ FVT Flush Valve Connection

☐ APFM Flush Valve Access Panel Front Mounted (Allows access to chase mounted flush valve from fixture side)

■ MT Metal Template

☐ RTH2 Front Access Wall Mounted Recessed Tissue Holder

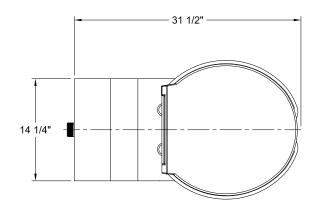
*LIGATURE-RESISTANT DISCLAIMER

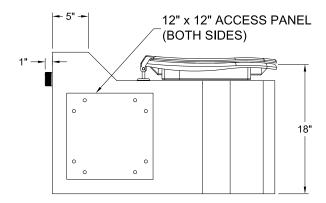
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**For replacement fixtures only

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		

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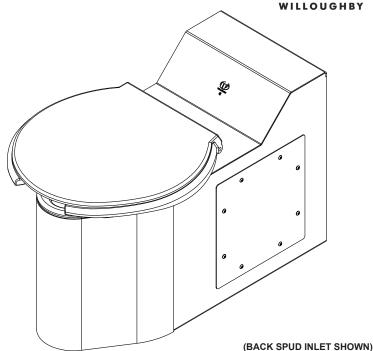




BETF-1490-FM-FA Bariatric Front Mounted Floor Outlet Floor Mounted Siphon Jet Series Toilet







To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Front Access, Floor Outlet, Siphon Jet Series Bariatric Toilet with back spud, flush valve and wall mounted recessed tissue holder

Use the following Willoughby Model Number: BETF-1490-FM-FA-BS-FV-RTH1

Recommended Specifications

Bariatric, Front Mounted, Floor Outlet, Floor Mounted Siphon Jet Series Toilet shall be: Willoughby Model No. **BETF-1490-FM-FA** (Select from model number and options list on next page)

Fixture shall be fabricated from heavy gauge, Type 304 stainless steel. The construction shall be all-welded. Fixture exterior shall have an antimicrobial gloss white powder coat enamel finish*. Toilet bowl interior shall have a sanitary bead-blast stainless steel finish.

Standard toilet shall include: elongated toilet bowl with integral contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 3-1/2" seal. Toilet shall be siphon jet type which requires 35 psi minimum flushing pressure. Hinged toilet seat shall have open front with cover and be rated for a 1200 pound weight capacity. Toilet seat hinges are stainless steel, seat and cover shall be white in color.

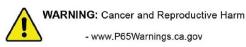
The fixture (less hinged seat) shall withstand loadings up to 2000 pounds with no measurable deflection and loadings up to 5000 pounds with no permanent damage.

Anchoring shall be from the front thru (2) 12" x 12" removable access panels. The fixture is provided with four (4) 3/4" wall carrier mounting holes and one (1) floor mounted 'Z' clip mounting bracket. Wall and floor anchoring hardware is by others.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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1.) Base Model N	Number:
------------------	---------

□ BETF-1490-FM-FA Bariatric, Front Mounted, Floor Outlet, Floor Mounted Siphon Jet Series Toilet

2.) Inlet Location:

□ BS Back Spud□ TS Top Spud

3.) Flush Valve GPF's (Must Specify):

☐ FV Hydraulic Flush Valve (Includes Actuator)

□ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf) □ 3.5 GPF (13.2 Lpf)**

■ NFV No Flush Valve (Provided by Others)

4.) Options:

□ BL Bedpan Lugs□ SLL Seat Less Lid

☐ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)*

☐ FVT Flush Valve Connection

☐ APFM Flush Valve Access Panel Front Mounted (Allows access to chase mounted flush valve from fixture side)

■ MT Metal Template

□ RTH2 Front Access Wall Mounted Recessed Tissue Holder

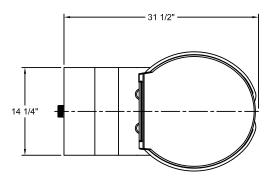
*LIGATURE-RESISTANT DISCLAIMER

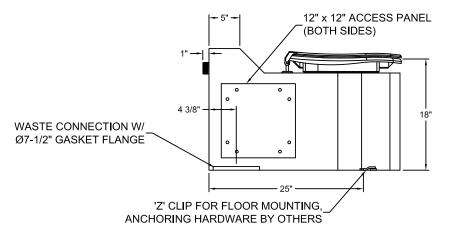
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**For replacement fixtures only

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		

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BETF-1490-FM-FA-10"
Bariatric
10" Rough-In
Front Mounted
Floor Outlet
Floor Mounted

Siphon Jet Series Toilet







To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a 10" Rough-In, Front Access, Floor Outlet, Siphon Jet Series Bariatric Toilet with back spud, flush valve and wall mounted recessed tissue holder

Use the following Willoughby Model Number:

BETF-1490-FM-FA-10-BS-FV-RTH1

Recommended Specifications

Bariatric, 10" Rough-In, Front Mounted, Floor Outlet, Floor Mounted, Siphon Jet Series Toilet shall be: Willoughby Model No. **BETF-1490-FM-FA-10"** (Select from model number and options list on next page)

Fixture shall be fabricated from heavy gauge, Type 304 stainless steel. The construction shall be all-welded. Fixture exterior shall have an antimicrobial gloss white powder coat enamel finish*. Toilet bowl interior shall have a sanitary bead-blast stainless steel finish.

Standard toilet shall include: elongated toilet bowl with integral contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 3-1/2" seal. Toilet shall be siphon jet type which requires 35 psi minimum flushing pressure. Hinged toilet seat shall have open front with cover and be rated for a 1200 pound weight capacity. Toilet seat hinges are stainless steel, seat and cover shall be white in color.

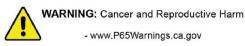
The fixture (less hinged seat) shall withstand loadings up to 2000 pounds with no measurable deflection and loadings up to 5000 pounds with no permanent damage.

Anchoring shall be from the front thru (2) 12" x 12" removable access panels. The fixture is provided with four (4) 3/4" wall carrier mounting holes and one (1) floor mounted 'Z' clip mounting bracket. Wall and floor anchoring hardware is by others.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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1.) Base Model Number:

□ BETF-1490-FM-FA-10" Bariatric, 10" Rough-In, Front Mounted, Floor Outlet, Floor Mounted, Siphon Jet Series Toilet

2.) Inlet Location:

□ BS Back Spud□ TS Top Spud

3.) Flush Valve GPF's (Must Specify):

☐ FV Hydraulic Flush Valve (Includes Actuator)

□ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf) □ 3.5 GPF (13.2 Lpf)**

■ NFV No Flush Valve (Provided by Others)

4.) Options:

□ BL Bedpan Lugs□ SLL Seat Less Lid

☐ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)*

☐ FVT Flush Valve Connection

☐ APFM Flush Valve Access Panel Front Mounted (Allows access to chase mounted flush valve from fixture side)

■ MT Metal Template

□ RTH2 Front Access Wall Mounted Recessed Tissue Holder

□ Other:□ Other:

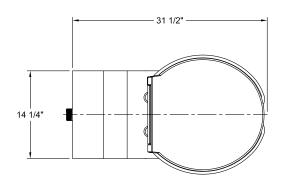
*LIGATURE-RESISTANT DISCLAIMER

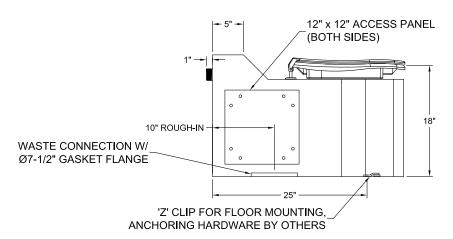
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**For replacement fixtures only

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		

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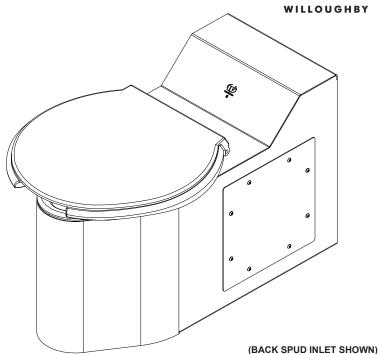
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BETF-1490-FM-FA-12"
Bariatric
12" Rough-In
Front Mounted
Floor Outlet
Floor Mounted
Siphon Jet Series Toilet







To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a 12" Rough-In, Front Access, Floor Outlet, Siphon Jet Series Bariatric Toilet with top spud, 1.6 GFP, flush valve, and wall mounted recessed tissue holder

Use the following Willoughby Model Number: BETF-1490-FM-FA-12"-TS-1.6-FV-RTH1

Recommended Specifications

Bariatric, 12" Rough-In, Front Mounted, Floor Outlet, Floor Mounted, Siphon Jet Series Toilet shall be: Willoughby Model No. **BETF-1490-FM-FA-12"** (Select from model number and options list on next page)

Fixture shall be fabricated from heavy gauge, Type 304 stainless steel. The construction shall be all-welded. Fixture exterior shall have an antimicrobial gloss white powder coat enamel finish*. Toilet bowl interior shall have a sanitary bead-blast stainless steel finish.

Standard toilet shall include: elongated toilet bowl with integral contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 3-1/2" seal. Toilet shall be siphon jet type which requires 35 psi minimum flushing pressure. Hinged toilet seat shall have open front with cover and be rated for a 1200 pound weight capacity. Toilet seat hinges are stainless steel, seat and cover shall be white in color.

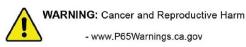
The fixture (less hinged seat) shall withstand loadings up to 2000 pounds with no measurable deflection and loadings up to 5000 pounds with no permanent damage.

Anchoring shall be from the front thru (2) 12" x 12" removable access panels. The fixture is provided with four (4) 3/4" wall carrier mounting holes and one (1) floor mounted 'Z' clip mounting bracket. Wall and floor anchoring hardware is by others.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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1.) Base Model Number:

☐ BETF-1490-FM-FA-12" Bariatric, 12" Rough-In, Front Mounted, Floor Outlet, Floor Mounted, Siphon Jet Series Toilet

2.) Inlet Location:

□ BS Back Spud□ TS Top Spud

3.) Flush Valve GPF's (Must Specify):

☐ FV Hydraulic Flush Valve (Includes Actuator)

□ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf) □ 3.5 GPF (13.2 Lpf)**

■ NFV No Flush Valve (Provided by Others)

4.) Options:

□ BL Bedpan Lugs□ SLL Seat Less Lid

☐ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)*

☐ FVT Flush Valve Connection

☐ APFM Flush Valve Access Panel Front Mounted (Allows access to chase mounted flush valve from fixture side)

■ MT Metal Template

☐ RTH2 Front Access Wall Mounted Recessed Tissue Holder

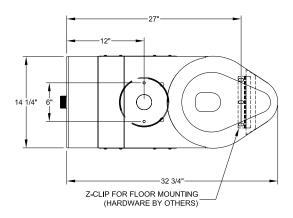
*LIGATURE-RESISTANT DISCLAIMER

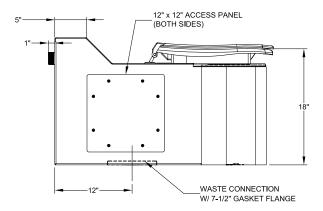
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**For replacement fixtures only

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		

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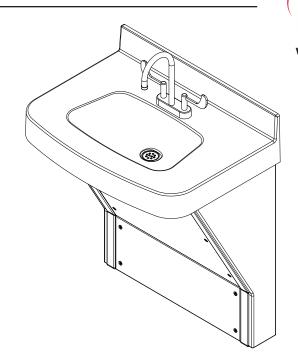


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BHS-3123 ADA-Compliant Solid Surface Bariatric Lavatory





To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an ADA-Compliant, Solid Surface Bariatric Lavatory with a stainless steel pedestal, 4" CC, rigid 8" gooseneck, wristblade faucet, Sandstone color with Amati Walnut panels, and thermostatic mixing valve

Use the following Willoughby Model Number: BHS-3123-WB1-SS-WL-TMV

Recommended Specifications

ADA-Compliant, Solid Surface Bariatric Lavatory shall be: Willoughby Model No: **BHS-3123** (Select from model number and options list on next page)

Floor mounted bariatric lavatory shall accommodate bariatric patient and be able to withstand a static downward force of 1,000 lbs at front edge of lavatory with no permanent physical damage.

Lavatory deck shall be constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/ acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive*. Lavatory deck shall have an integral "D-shaped" bowl with an integrally cast 4" cove backsplash and 4" apron included.

Lavatory pedestal shall be welded stainless steel; exterior panels shall be solid polymer. Optional wood grain exterior panels available.

Unit shall require no chase for installation and maintenance.

BHS-3123 Bariatric Lavatory shall be supplied with a 4"CC, rigid 8" gooseneck wristblade faucet; and an antimicrobial drain and offset tail piece* (an optional antimicrobial trap is available). Optional infrared faucet models and thermostatic mixing valves are available.

ADA, TAS, UFAS, and ANSI Compliant:

Unit shall comply with IAPMO Z124 / CSA B45.5 requirements. It shall also comply with all applicable ADA, TAS, UFAS, and ANSI accessibility guidelines.

Mounting:

The lavatory shall be floor mounted with additional anchoring to back wall. Lavatory is designed to accommodate use of third party carrier should one be desired. (Carrier supplied by others). Proper backing and anchoring hardware for mounting of lavatory provided by others.

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.

The optional UV-C Disinfection System is covered only by any warranties given by Chicago Faucets, and installation and maintenance of the UV-C Disinfection System should be done in accordance with Chicago Faucets' instructions. Willoughby Industries, Inc. disclaims any warranties with respect to the UV-C Disinfection System, including any warranties of merchantability or fitness for a particular use or purpose.



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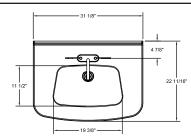
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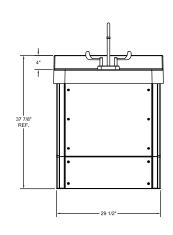
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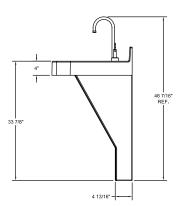
1.) Lavato	ry Model:	5.) Side Panels:	
■ BHS-31	23 ADA-Compliant, Solid Surface Bariatric Lavatory	Polymer Color	s (Standard)
		□ AW	Arctic White
2.) Faucet	:	□ SM	Sea Foam
□ WB1	1.5 gpm, 4CC, Rigid 8" Gooseneck, Wristblade Faucet (Standard)	□ SN	Sanshade (Almond)
□ SSF	Gooseneck Sensor Spout, Center Shank IR Operated,	□ WW	White White
	Laminar Flow (12v transformer is required)**	Wood Grain P	remium Colors (Optional- at additional cost)
□ SSFB	Gooseneck Sensor Spout, Center Shank IR (Battery Operated), Laminar F	low 🔲 KM	Kasei Maple
□ NV	No Valve, No Faucet/Spout- Faucet by Others	□ MW	Majestic Walnut
	(Select Hole Punching if needed)	□ WL	Amati Walnut
3.) Hole D	rilling Selection (Faucet by Others):	6.) Other:	
NOTE:	If hole drilling is required, please submit faucet for approval	■ MT	Wall Template
☐ 4CC	4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:)	□ TMV	Inline Thermostatic Mixing Valve
□ 8CC	8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:)	☐ TF12PI	12v Plug-in Transformer (SSF faucet only)**
☐ 1CC	Center Shank, (1) Ø1-1/4" Hole	☐ TF12HW	12v Hard-wire Transformer (SSF faucet only)
□ SP	Special Punching/Drilling (Specify hole punching dim.)	☐ AMT	Antimicrobial Trap*
	SP:	*Antimicrobial p	properties are built-in to inhibit the growth of bac
4.) Lavato	ry Deck Colors:	teria that may a	ffect this product. The antimicrobial properties
□ BN	Bone	do not protect ι	isers or others against bacteria, viruses, germs,
□ GW	Glacier White	or other disease	e organisms. Always use good hygienic cleaning
□ GG	Grey Granite	practices.	
□ SS	Sandstone		
□ WG	White Granite	**(Req. 110V powe	er through ground fault interrupter (GFCI) receptacle)
□ BG	Black Granite		
□ NB	Nocturnal Blue		
□ RC	Red Coral		
□ SG	Sea Green		
Approv	ed For Manufacturing By:	Date:	Company:
	nickness: Wall Type:		. 5

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.



NOTE: SINK BOWL AREA IS GREATER THAN 144 sq in. ** NOTICE: Faucet options for the BHS-3123
Bariatric Lavatory have been selected
to specifically minimize splashing and
aerosolization when used with the BHS-3123.
Willoughby Industries will not be held liable
for any unintended splashing resulting from
use of a faucet not supplied by Willoughby
Industries or without prior approval by
Willoughby Industries.





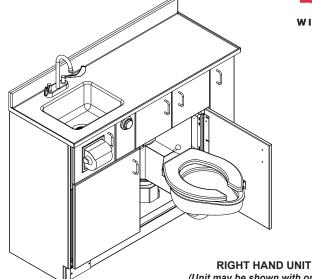
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WILLOUGHBY

WH-1700 Series **Swivel Toilet Patient Care Unit**





Recommended Specifications

Modular Patient Care Unit in decorator cabinet shall be: Willoughby Model No. WH-1700 (Select from model number and options list on next page) Unit shall be free standing and shall include the following standard equipment and features:

Cabinet:

Modular Type 304 stainless steel welded cabinet shall include:

- Solid polymer exterior cabinet panels and doors (Doors have rounded edges to enhance patient safety and Toilet Doors will support a 250 pound static load via the frame-mounted piano hinges)
- Solid surface countertop and integral lavatory bowl
- Toilet tissue holder conveniently located on the cabinet face
- Standard side-mounted bedpan washer concealed behind a separate cabinet door

(Other bedpan washer configurations/dialysis boxes are options.)

Standard siphon jet type swivel toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim w/ positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior (optional antimicrobial white ext.*) Toilet shall require 35 psi min. flushing pressure and shall meet the requirements of ASME A112.19.3/CSA B45.4.

Lavatory:

Solid surface lavatory shall include:

- Rectangular bowl, 13-1/2" x 10-1/2" x 7" deep, w/ grid drain
- Rigid gooseneck spout faucet w/ laminar flow nozzle
- Antimicrobial solid surface additive to minimize bacteria growth*

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a WH-1700 swivel toilet Patient Care Unit with right hand swivel toilet, 1.6 GPF, wall outlet toilet waste, 3" PVC toilet waste coupling, Arctic White cabinet, Red Coral color countertop w/matching Red Coral color lavatory bowl, standard back wall backsplash, standard gooseneck wrist-blade faucet, standard bedpan washer spray assembly with volume control, and integral cabinet single valve dialysis box

Use the following Willoughby Model Number: WH-1700-R-1.6-SWO-TWC3P-AW-RC-BCM-1-WB-BWS-VC-SDB

Optional Features:

- Lavatory waste traps and stops are available options
- Integral solid surface lav. bowl can be ordered in one of two contrasting colors to visually separate bowl from countertop
- If bedpan washer spray assembly with volume control (BWS-VC) is desired, then an elevated pressure type vacuum breaker by other is recommended to prevent backflow from occurring. Consult local codes for backflow prevention device requirements.

Anchoring shall be through the front and through the floor (anchoring hardware provided by others). Unit requires no chase area for installation and maintenance. Standard siphon jet type swivel toilet shall have a minimum 17" high rim height (less seat) and support a 2500 lb. vertical static load.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of



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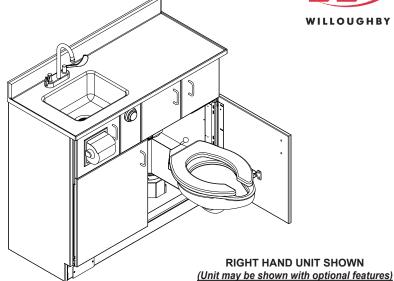
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1.) Patient Care U	nit Model Number:	6.) Count	ertop Color (AQCT) (Must Specify):	10.) Other Op	tions:
☐ WH-1700-R	(Right hand toilet, Left sink)	☐ BN	Bone	☐ BWS-VC	Bedpan Washer Spray Assembly w/
☐ WH-1700-L	(Left hand toilet, Right sink)	☐ GW	Glacier White		Volume Control (Standard)
		☐ GG	Grey Granite	SDB	Integral Cabinet Single Valve Dialysis Box
2.) Flush Valve GF		☐ SS	Sandstone White Granite	☐ DDB	Integral Cabinet Dual Valve Dialysis Box
_	(4.8 Lpf) (WaterSense Labeled)	☐ WG	White Granite Black Granite	DC	Antimicrobial White Exterior Toilet Finish*
1.6 GPF ULF (6	.pf) (3" waste tube required)	☐ BG ☐ NB	Nocturnal Blue	☐ BL ☐ TFL	Bedpan Lugs Toilet Flush Lock
3.5 GFT (15.2 L	-pi) (3 waste tube required)	☐ RC	Red Coral	☐ PAD	Paddle Latch Toilet Release
3.) Toilet Fixture (Stainless Steel):	☐ SG	Sea Green		r addic Edion foliot (Colodo
☐ SWO Swivel		_ 。	354 3.55.i.	11.) Code Var	iances:
	Toilet/Floor Outlet	7.) Counte	ertop Sink Bowl Color:	☐ TMV	Inline Thermostatic Mixing Valve
		☐ BCM	Countertop-matching (Standard)	□ PTC	'P' Trap w/Clean-out Plug
4.) Toilet Waste		■ BBN	Bone	LSS	1/2" x 3/8" Lavatory Supply Stops
_	aste Coupling, for (SWO) only	BGW	Glacier White	☐ TF12PI	12v Plug-in Transformer** (SSF faucet only)
(Must Specify Conr	,			TF12HW	12v Hard-wire Transformer (SSF faucet only)
☐ 3P	Connecting to 3" PVC		plash Orientation:	Other	
☐ 3C	Connecting to 3" Cast Iron	<u> </u>	Back Wall Only (1 Wall) (Standard)	Other	
☐ 4P ☐ 4C	Connecting to 4" PVC Connecting to 4" Cast Iron	☐ 2 ☐ 3	Right Hand Corner (2 Wall) Left Hand Corner (2 Wall)	*Antimicrobi	al properties are built-in to inhibit the growth
_	aste Gasket, for (SFO) only	□ 3	Alcove (3 Wall)		at may affect this product. The antimicrobial
- IVVO TOTICE VV	aste casket, for (or o) only		Alberte (o vvall)		not protect users or others against bacteria,
5.) Exterior Polym	er Panel Color (Must Specify):	9.) Faucet	:		ns, or other disease organisms. Always use
AW Arctic W		☐ WB	Gooseneck Spout, Laminar Flow,	. •	c cleaning practices.
☐ WW White/W	Vhite		Wristblade Handles, 4CC		
☐ LG Light Gr	rey	□ FPF	Gooseneck Spout, Laminar Flow,	**/5 440)/	
_	de (Almond)		Foot Pedal Valve		power through ground fault interrupter (GFCI)
SM Seafoar		SSF	Gooseneck Sensor Spout, Center	receptacle)	
☐ DG Dolphin	Grey		Shank IR Operated, Laminar Flow		
			(12v transformer is required)		
		☐ SSFB	Gooseneck Sensor Spout, Center Shank IR (Battery Operated),		
			Laminar Flow		
Approved For	Manufacturing By:			C	ompany:
Wall Thicknes	ss:	_ Wall 1	Гуре:	_	
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.	4 3/4" 4 3/4" 4 1/4" 13 1/2" 39 3/4"	47 3/4"	REFERENCE: \$900641 NOTE: RIGHT HAND MELEFT HAND IS SYMMETOPPOSITE NOTE: REFERENCE ROUGH-IN TEMPLATES WALL: \$901913 FLOOR: \$900608	TRICALLY	9 3/8" 4 5/8" 23"
	ļ .	47 1/2"		36 7/8" (REF.) –	

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WILLOUGHBY

WH-1750 Series Swivel Toilet Patient Care Unit



To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a WH-1750 swivel toilet Patient Care Unit with right hand swivel toilet, 1.6 GPF, wall outlet toilet waste, 3" PVC toilet waste coupling, Arctic White cabinet, Red Coral color countertop w/matching Red Coral color lavatory bowl, standard back wall backsplash, standard goseneck wrist-blade faucet, bedpan washer spray assembly with volume control, and integral cabinet single valve dialysis box

Use the following Willoughby Model Number: WH-1750-R-1.6-SWO-TWC3P-AW-RC-BCM-1-WB-BWS-VC-SDB



Recommended Specifications

Modular Patient Care Unit in decorator cabinet shall be: Willoughby Model No. **WH-1750**

(Select from model number and options list on next page)

<u>Unit shall be free standing and shall include</u>

<u>the following standard equipment and features:</u>

Cabinet:

Modular Type 304 stainless steel welded cabinet shall include:

- Solid polymer exterior cabinet panels and doors
 - (Doors have rounded edges to enhance patient safety and Toilet Doors will support a 250 pound static load via the frame-mounted piano hinges)
- Solid surface countertop and integral lavatory bowl
- Toilet tissue holder conveniently located on the cabinet face (Integral bedpan washer and dialysis box are available options.)

Toilet:

Standard siphon jet type swivel toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim w/ positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior (optional antimicrobial white ext.*) Toilet shall require 35 psi min. flushing pressure and shall meet the requirements of ASME A112.19.3/CSA B45.4.

Lavatory:

Solid surface lavatory shall include:

- Rectangular bowl, 13-1/2" x 10-1/2" x 7" deep, w/ grid drain
- Rigid gooseneck spout faucet w/ laminar flow nozzle
- Antimicrobial solid surface additive to minimize bacteria growth*

Optional Features:

- Lavatory waste traps and stops are available options
- Integral solid surface lav. bowl can be ordered in one of two contrasting colors to visually separate bowl from countertop
- If bedpan washer spray assembly with volume control (BWS-VC) is desired, then an elevated pressure type vacuum breaker by other is recommended to prevent backflow from occurring. Consult local codes for backflow prevention device requirements.

Mounting:

Anchoring shall be through the front and through the floor (anchoring hardware provided by others). Unit requires no chase area for installation and maintenance. Standard siphon jet type swivel toilet shall have a minimum 17" high rim height (less seat) and support a 2500 lb. vertical static load.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of Water-Sense.



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	N	10DEI	L NUMBER AND OF	PTIONS:	
1.) Patient WH-17 WH-17	,	6.) Count BN GW GG	ertop Color (AQCT) (Must Specify): Bone Glacier White Grey Granite	10.) Other Op BWS-VC	ptions: Bedpan Washer Spray Assembly w/ Volume Control Integral Cabinet Single Valve Dialysis Box
1.28 GI	Valve GPF (Must Specify): PF HET (4.8 Lpf) (WaterSense Labeled) F ULF (6.0 Lpf) (Standard) F (13.2 Lpf) (3" waste tube required)	SS WG BG NB	Sandstone White Granite Black Granite Nocturnal Blue Red Coral	DDB DC BL TFL PAD	Integral Cabinet Dual Valve Dialysis Box Antimicrobial White Exterior Toilet Finish* Bedpan Lugs Toilet Flush Lock Paddle Latch Toilet Release
3.) Toilet F SWO SFO	Fixture (Stainless Steel): Swivel Toilet/Wall Outlet Swivel Toilet/Floor Outlet	SG	Sea Green ertop Sink Bowl Color:	11.) Code Va	riances:
4.) Toilet V	Naste	BCM BBN BGW	Countertop-matching (Standard) Bone Glacier White	☐ TMV ☐ PTC ☐ LSS ☐ TF12PI	Inline Thermostatic Mixing Valve 'P' Trap w/Clean-out Plug 1/2" x 3/8" Lavatory Supply Stops 12v Plug-in Transformer** (SSF faucet only)
_	Toilet Waste Coupling, for (SWO) only cify Connection): 3 P Connecting to 3" PVC	8.) Backs	plash Orientation:	☐ TF12HW ☐ Other _	12v Hard-wire Transformer (SSF faucet only)
	□ 3C Connecting to 3" Cast Iron □ 4P Connecting to 4" PVC □ 4C Connecting to 4" Cast Iron Tail to Washe Content for (CFO) and the	☐ 1 ☐ 2 ☐ 3	Back Wall Only (1 Wall) (Standard) Right Hand Corner (2 Wall) Left Hand Corner (2 Wall)		al properties are built-in to inhibit the growth
-	Toilet Waste Gasket, for (SFO) only or Polymer Panel Color (Must Specify):	9.) Fauce		properties de viruses, gerr	nat may affect this product. The antimicrobial onot protect users or others against bacteria, no or other disease organisms. Always use
☐ AW ☐ WW ☐ LG	Arctic White White/White Light Grey	☐ WB	Gooseneck Spout, Laminar Flow, Wristblade Handles, 4CC Gooseneck Spout, Laminar Flow, Foot Pedal Valve	**(Req. 110V	ic cleaning practices. power through ground fault interrupter (GFCI)
SN SM DG	Sanshade (Almond) Seafoam Dolphin Grey	☐ SSF	Gooseneck Sensor Spout, Center Shank IR Operated, Laminar Flow (12v transformer is required)	receptacle)	
		☐ SSFB	Gooseneck Sensor Spout, Center Shank IR (Battery Operated), Laminar Flow		
	ved For Manufacturing By: nickness:		Date: Type:	(Company:
GH-IN ND ATION.	18 5/8" 10 1/2" 4 1/2" 13 1/2"		REFERENCE: S900586 NOTE: RIGHT HAND M LEFT HAND IS SYMME OPPOSITE NOTE: REFERENCE ROUGH-IN TEMPLATE WALL: S900603 FLOOR: S900594	ODEL SHOWN, TRICALLY	
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROU WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN A DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIG	39 7/8"	1/2"	35 1/4"		9 3/8"

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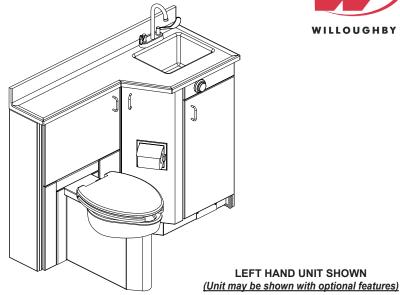
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36 7/8" (REF.) -

WH-1900 Series Patient Care Unit







To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a WH-1900 Patient Care Unit with left hand toilet, 1.6 GPF, wall outlet toilet waste, 3" PVC toilet waste coupling, Dolphin Grey cabinet, Nocturnal Blue color countertop w/contrasting Bone color lavatory bowl, standard back wall backsplash, standard gooseneck wrist-blade faucet, standard bedpan washer spray assembly with volume control, and standard antimicrobial white ext. toilet finish*

Use the following Willoughby Model Number: WH-1900-L-1.6-WO-TWC3P-DG-NB-BBN-1-WB-BWS-VC-DC

Recommended Specifications

Modular Patient Care Unit in decorator cabinet shall be: Willoughby Model No. **WH-1900**

(Select from model number and options list on next page)

<u>Unit shall be free standing and shall include</u>

<u>the following standard equipment and features:</u>

Cabinet:

Modular Type 304 stainless steel welded cabinet shall include:

- Solid polymer exterior cabinet panels and doors (Doors have rounded edges to enhance patient safety)
- Solid surface countertop and integral lavatory bowl
- Toilet tissue holder conveniently located on the cabinet face
- Standard side-mounted bedpan washer concealed behind a separate cabinet door (Integral dialysis box is optional.)

Toilet:

Standard siphon jet type toilet shall include:

- Elongated toilet bowl with contoured seat and lid
- Integral crevice-free self-draining flushing rim w/ positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior; exterior finished in an antimicrobial gloss white powder coat enamel finish*
- Toilet shall require 35 psi min. flushing pressure and shall meet the requirements of ASME A112.19.3/CSA B45.4.

Lavatory:

Solid surface lavatory shall include:

- Rectangular bowl, 13-1/2" x 10-1/2" x 7" deep, w/ grid drain
- Rigid gooseneck spout faucet w/ laminar flow nozzle
- Antimicrobial solid surface additive to minimize bacteria growth*

Optional Features:

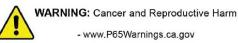
- Lavatory waste traps and stops are available options
- Integral solid surface lav. bowl can be ordered in one of two contrasting colors to visually separate bowl from countertop
- If bedpan washer spray assembly with volume control (BWS-VC) is desired, then an elevated pressure type vacuum breaker by other is recommended to prevent backflow from occurring. Consult local codes for backflow prevention device requirements.

Mounting:

Anchoring shall be through the front and through the floor (anchoring hardware provided by others). Unit requires no chase area for installation and maintenance. Standard siphon jet toilet shall have a minimum 17" rim height (less seat) and withstand loading up to 2000 lbs. with no measurable deflection and loading up to 5000 lbs. with no permanent damage.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

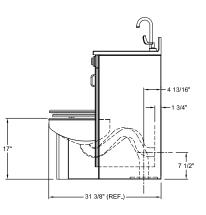
Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of Water-Sense.



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	N	/IODEL	. NUMBER AND OF	PTIONS:	
	d toilet, Left sink) toilet, Right sink) cify):	6.) Counte BN GW GG SS WG	ertop Color (AQCT) (Must Specify): Bone Glacier White Grey Granite Sandstone White Granite	10.) Other Op BWS-VC SDB DDB DC	Descriptions: Bedpan Washer Spray Assembly w/ Volume Control (Standard) Integral Cabinet Single Valve Dialysis Box Integral Cabinet Dual Valve Dialysis Box Antimicrobial White Exterior Toilet
☐ 1.6 GPF ULF (6.0 Lpf) (Stand ☐ 3.5 GPF (13.2 Lpf) (3" waste 3.) Toilet Fixture (Stainless Ste	ard) tube required)	BG NB RC SG	Black Granite Nocturnal Blue Red Coral Sea Green	☐ BL ☐ RCC	Finish*(Standard) Bedpan Lugs Roll Away Closet Cover (Exam Seat)
☐ WO Floor Mounted Toilet/ ☐ FO Floor Mounted Toilet/	Nall Outlet	7.) Counte	ertop Sink Bowl Color: Countertop-matching (Standard)	11.) Code Var	Inline Thermostatic Mixing Valve 'P' Trap w/Clean-out Plug
_	g to 3" PVC		Bone Glacier White plash Orientation:	LSS TF12PI TF12HW Other	1/2" x 3/8" Lavatory Supply Stops 12v Plug-in Transformer** (SSF faucet only) 12v Hard-wire Transformer (SSF faucet only)
4P Connecting	g to 3" Cast Iron g to 4" PVC g to 4" Cast Iron for (FO) only	□ 1 □ 2 □ 3 □ 4	Back Wall Only (1 Wall) Right Hand Corner (2 Wall) Left Hand Corner (2 Wall) Alcove (3 Wall)	of bacteria th	al properties are built-in to inhibit the growth nat may affect this product. The antimicrobial
5.) Exterior Polymer Panel Cole AW Arctic White WW White/White	or (Must Specify):	9.) Faucet	Gooseneck Spout, Laminar Flow, Wristblade Handles, 4CC	viruses, germ good hygieni	o not protect users or others against bacteria, ns, or other disease organisms. Always use ic cleaning practices.
□ LG Light Grey □ SN Sanshade (Almond) □ SM Seafoam □ DG Dolphin Grey		☐ FPF	Gooseneck Spout, Laminar Flow, Foot Pedal Valve Gooseneck Sensor Spout, Center Shank IR Operated, Laminar Flow	**(Req. 110V _I receptacle)	power through ground fault interrupter (GFCI)
		☐ SSFB	(12v transformer is required) Gooseneck Sensor Spout, Center Shank IR (Battery Operated), Laminar Flow		
Approved For Manufactu Wall Thickness:			Date: Type:	C	Company:
ORY PRIOR TO ROUGH-IN KE CHANGES IN DESIGN AND THOUT INCURRING OBLIGATION. 12 12 12 12 12 12 12 12 12 12 12 12 12 1	10 13/16"		NOTE: LEFT HAND MODEL S RIGHT HAND IS SYMMETRIC OPPOSITE NOTE: REFERENCE ROUGH-IN TEMPLATES: WALL: S900439 FLOOR: S900440	SHOWN, CALLY	
WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN A DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIG		47"	35 3/4"		4 13/16"

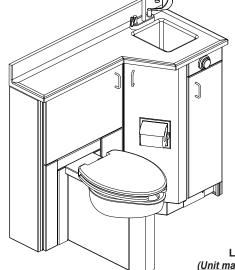


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WH-1950 Series Patient Care Unit







To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a WH-1950 Patient Care Unit with left hand toilet, 1.6 GPF, wall outlet toilet waste, 3" PVC toilet waste coupling, Dolphin Grey cabinet, Nocturnal Blue color countertop w/contrasting Bone color lavatory bowl, standard back wall backsplash, standard goeseneck wrist-blade faucet, standard bedpan washer spray assembly with volume control, and standard antimicrobial white ext. toilet finish*

Use the following Willoughby Model Number: WH-1950-L-1.6-WO-TWC3P-DG-NB-BBN-1-WB-BWS-VC-DC



Recommended Specifications

Modular Patient Care Unit in decorator cabinet shall be: Willoughby Model No. **WH-1950**

(Select from model number and options list on next page)

<u>Unit shall be free standing and shall include</u>

<u>the following standard equipment and features:</u>

Cabinet:

Modular Type 304 stainless steel welded cabinet shall include:

- Solid polymer exterior cabinet panels and doors (Doors have rounded edges to enhance patient safety)
- Solid surface countertop and integral lavatory bowl
- Toilet tissue holder conveniently located on the cabinet face (Integral bedpan washer and dialysis box are available options.)
- Standard side-mounted bedpan washer concealed behind a separate cabinet door (Integral dialysis box is optional.)

Toilet:

Standard siphon jet type toilet shall include:

- Elongated toilet bowl with contoured seat and lid
- Integral crevice-free self-draining flushing rim w/ positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior; exterior finished in an antimicrobial gloss white powder coat enamel finish*
- Toilet shall require 35 psi min. flushing pressure and shall meet the requirements of ASME A112.19.3/CSA B45.4.

Lavatory:

Solid surface lavatory shall include:

- Rectangular bowl, 13-1/2" x 10-1/2" x 7" deep, w/ grid drain
- Rigid gooseneck spout faucet w/ laminar flow nozzle
- Antimicrobial solid surface additive to minimize bacteria growth*

Optional Features:

- Lavatory waste traps and stops are available options
- Integral solid surface lav. bowl can be ordered in one of two contrasting colors to visually separate bowl from countertop
- If bedpan washer spray assembly with volume control (BWS-VC) is desired, then an elevated pressure type vacuum breaker by other is recommended to prevent backflow from occurring. Consult local codes for backflow prevention device requirements.

Mounting:

Anchoring shall be through the front and through the floor (anchoring hardware provided by others). Unit requires no chase area for installation and maintenance. Standard siphon jet toilet shall have a minimum 17" rim height (less seat) and withstand loading up to 2000 lbs. with no measurable deflection and loading up to 5000 lbs. with no permanent damage.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of Water-Sense



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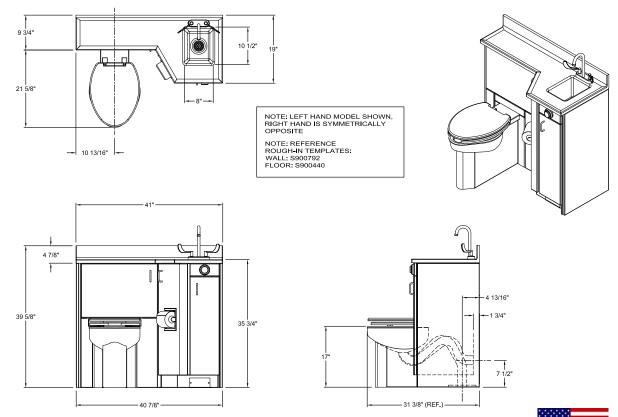


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☐ WH-19	950-R	Model Number: (Right hand toilet, Left sink)	☐ BN	tertop Color (AQCT) (Must Specify): Bone	10.) Other Op BWS-VC	Bedpan Washer Spray Assembly w/
☐ WH-19	950-L	(Left hand toilet, Right sink)	☐ GW	Glacier White		Volume Control (Standard)
			GG	Grey Granite	☐ SDB	Integral Cabinet Single Valve Dialysis Box
		(Must Specify):	□ SS	Sandstone	□ DDB	Integral Cabinet Dual Valve Dialysis Box
_	•	8 Lpf) (WaterSense Labeled)	☐ WG	White Granite	☐ DC	Antimicrobial White Exterior Toilet
_	,	Lpf) (Standard)	BG	Black Granite		Finish*(Standard)
☐ 3.5 GF	PF (13.2 Lpt	(3" waste tube required)	■ NB	Nocturnal Blue	□ BL	Bedpan Lugs
			RC RC	Red Coral	RCC	Roll Away Closet Cover (Exam Seat)
3.) Toilet	Fixture (St	ainless Steel):	SG	Sea Green		
■ WO	Floor Mou	inted Toilet/Wall Outlet			11.) Code Var	iances:
☐ FO	Floor Mou	nted Toilet/Floor Outlet	7.) Count	ertop Sink Bowl Color:	■ TMV	Inline Thermostatic Mixing Valve
			□ BCM	Countertop-matching (Standard)	□ PTC	'P' Trap w/Clean-out Plug
4.) Toilet	Waste		BBN	Bone	□ LSS	1/2" x 3/8" Lavatory Supply Stops
☐ TWC_	_ Toilet Was	ste Coupling, for (WO) only	■ BGW	Glacier White	☐ TF12PI	12v Plug-in Transformer** (SSF faucet only)
(Must Spe	ecify Conne	ction):			■ TF12HW	12v Hard-wire Transformer (SSF faucet only)
	□ 3P	Connecting to 3" PVC	8.) Backs	plash Orientation:	Other	
	□ 3C	Connecting to 3" Cast Iron	1	Back Wall Only (1 Wall)	Other	
	□ 4P	Connecting to 4" PVC	2	Right Hand Corner (2 Wall)		
	□ 4C	Connecting to 4" Cast Iron	3	Left Hand Corner (2 Wall)	*Antimicrobia	al properties are built-in to inhibit the growth
☐ TWG	Toilet Was	ste Gasket, for (FO) only	4	Alcove (3 Wall)	of bacteria th	at may affect this product. The antimicrobial
					properties do	not protect users or others against bacteria,
5.) Exteri	or Polymer	Panel Color (Must Specify):	9.) Fauce	t:	viruses, gern	ns, or other disease organisms. Always use
☐ AW	Arctic Wh	ite	☐ WB	Gooseneck Spout, Laminar Flow,	good hygieni	c cleaning practices.
□ WW	White/Wh	ite		Wristblade Handles, 4CC		
LG	Light Grey	/	☐ FPF	Gooseneck Spout, Laminar Flow,	**(Req. 110V)	power through ground fault interrupter (GFCI)
SN	Sanshade	(Almond)		Foot Pedal Valve	receptacle)	
SM	Seafoam	,	□ SSF	Gooseneck Sensor Spout, Center	. ,	
☐ DG	Dolphin G	rey	_	Shank IR Operated, Laminar Flow		
_		•		(12v transformer is required)		
			☐ SSFB	Gooseneck Sensor Spout,		
			_	Center Shank IR (Battery Operated),		
				Laminar Flow		
		lanufacturing By:		Date:	C	company:
Wall T	hickness	·	_ Wall	Туре:		
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	1	 	₹	10 1/2" 19"		
z _			<i>⟨</i> [#]			

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.

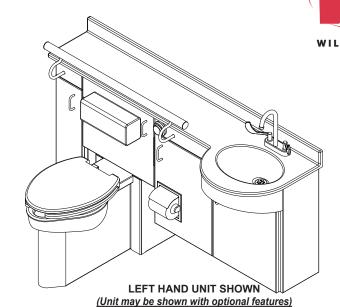


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WH-2100 Series Patient Care Unit





Recommended Specifications

Modular Patient Care Unit with decorator cabinet shall be: Willoughby Model No. **WH-2100**

(Select from model number and options list on next page)

<u>Unit shall be wall mounted or free standing and shall</u>
include the following standard equipment and features:

Cabinet:

Modular Type 304 stainless steel welded cabinet shall include:

- Solid polymer exterior cabinet panels and doors (Doors have rounded edges to enhance patient safety)
- Solid surface countertop and integral lavatory bowl
- Toilet tissue holder conveniently located on the cabinet face
- Integral ADA grab bar
- Standard side-mounted bedpan washer concealed behind a separate cabinet door (Integral dialysis box is optional.)

Toilet:

Standard siphon jet type toilet shall include:

- Elongated toilet bowl with contoured seat and lid
- Integral crevice-free self-draining flushing rim w/ positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior; exterior finished in an antimicrobial gloss white powder coat enamel finish*
- Toilet shall require 35 psi min. flushing pressure and shall meet the requirements of ASME A112.19.3/CSA B45.4.

Lavatory:

Solid surface lavatory shall include:

- Oval-shaped bowl, 15" x 11-1/2", w/ grid drain
- Rigid gooseneck spout faucet w/ laminar flow nozzle
- Antimicrobial solid surface additive to minimize bacteria growth*

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Patient Care Unit with left hand toilet, wall outlet with light grey cabinet, bone colored countertop, bone colored bowl, wristblade faucet, bedpan washer spray assembly with volume control, and antimicrobial white exterior toilet finish*

Use the following Willoughby Model Number: WH-2100-L-1.6-WO-LG-BN-BBN-1-WB-BWS-VC-DC

Optional Features:

- Lavatory waste traps and stops are available options
- Integral solid surface lav. bowl can be ordered in one of two contrasting colors to visually separate bowl from countertop
- If bedpan washer spray assembly with volume control (BWS-VC) is desired, then an elevated pressure type vacuum breaker by other is recommended to prevent backflow from occurring. Consult local codes for backflow prevention device requirements.

Mounting:

Anchoring shall be through the front and through the floor (anchoring hardware provided by others). Unit requires no chase area for installation and maintenance. Standard siphon jet toilet shall have a minimum 17" rim height (less seat) and withstand loading up to 2000 lbs. with no measurable deflection and loading up to 5000 lbs. with no permanent damage.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of Water-Sense.



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1.) Patien	t Care Uni	it Model Number:	6.) Count	ertop Color (AQCT) (Must Specify):	10.) Other Op	tions:
☐ WH-2′	100-R	(Right hand toilet, Left sink)	■ BN	Bone	■ BWS-VC	Bedpan Washer Spray Assembly w/
■ WH-2 ²	100-L	(Left hand toilet, Right sink)	☐ GW	Glacier White		Volume Control (Standard)
			☐ GG	Grey Granite	☐ SDB	Integral Cabinet Single Valve Dialysis Box
2.) Flush	Valve GPF	(Must Specify):	□ SS	Sandstone	DDB	Integral Cabinet Dual Valve Dialysis Box
1.28 G	SPF HET (4	.8 Lpf) (WaterSense Labeled)	■ WG	White Granite	□ DC	Antimicrobial White Exterior Toilet
☐ 1.6 GF	PF ULF (6.0	Current (Standard)	□ BG	Black Granite		Finish*(Standard)
☐ 3.5 GF	PF (13.2 Lp	of) (3" waste tube required)	■ NB	Nocturnal Blue	□ BL	Bedpan Lugs
			□ RC	Red Coral		
3.) Toilet	Fixture (S	tainless Steel):	□ SG	Sea Green	11.) Code Var	iances:
■ WO	Floor Mo	unted Toilet/Wall Outlet			■ TMV	Inline Thermostatic Mixing Valve
☐ FO	Floor Mo	unted Toilet/Floor Outlet	7.) Count	ertop Sink Bowl Color:	□ PTC	'P' Trap w/Clean-out Plug
			□ BCM	Countertop-matching (Standard)	□ LSS	1/2" x 3/8" Lavatory Supply Stops
4.) Toilet	Waste		BBN	Bone	☐ TF12PI	12v Plug-in Transformer** (SSF faucet only)
☐ TWC	Toilet Wa	ste Coupling, for (WO) only	□ BGW	Glacier White	■ TF12HW	12v Hard-wire Transformer (SSF faucet only
(Must Spe	cify Conne	ection):			Other	· · · · · · · · · · · · · · · · · · ·
	□ 3P	Connecting to 3" PVC	8.) Backs	plash Orientation:	Other	
	□ 3C	Connecting to 3" Cast Iron	1	Back Wall Only (1 Wall)		
	□ 4P	Connecting to 4" PVC	2	Right Hand Corner (2 Wall)	*Antimicrobia	al properties are built-in to inhibit the growtl
	□ 4C	Connecting to 4" Cast Iron	□ 3	Left Hand Corner (2 Wall)	of bacteria th	at may affect this product. The antimicrobia
☐ TWG	Toilet Wa	ste Gasket, for (FO) only	4	Alcove (3 Wall)	properties do	not protect users or others against bacteri
					viruses, germ	is, or other disease organisms. Always use
5.) Exteri	or Polyme	r Panel Color (Must Specify):	9.) Fauce	t:	good hygieni	c cleaning practices.
□ AW	Arctic Wh	nite	■ WB	Gooseneck Spout, Laminar Flow,		
□ WW	White/Wh	nite		Wristblade Handles, 4CC	**(Req. 110V p	power through ground fault interrupter (GFCI)
LG LG	Light Gre	y	□ SSF	Gooseneck Sensor Spout, Center	receptacle)	
☐ SN	Sanshad	e (Almond)		Shank IR Operated, Laminar Flow		
☐ SM	Seafoam	· · · ·		(12v transformer is required)		
☐ DG	Dolphin (Grey	☐ SSFB	Gooseneck Sensor Spout,		
	•			Center Shank IR (Battery Operated),		
				Laminar Flow		

Approved For Manufacturing By: Date: Company: Wall Thickness: Wall Type: MOUNTING RECEPTOR-SET SCREWS ADA GRAB BAR ASSEMBLY VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION. 33 1/8" (REF.) NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE ROUGH-IN TEMPLATES: WALL: S901711 FLOOR: S900961 3 3/4' 24 1/4" 36 5/8" GRAB BAR 9/16"-42 1/4" -10 1/2"

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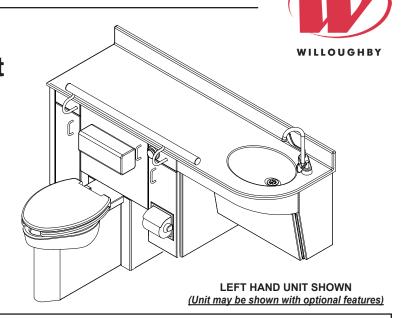
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MADE IN THE **U.S.A**.

WH-2400 Series Handicap-ADA Compliant Patient Care Unit







To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Patient Care Unit with left hand toilet, wall outlet with light grey cabinet, bone colored countertop, bone colored bowl, wristblade faucet, bedpan washer spray assembly with volume control, and antimicrobial white exterior toilet finish*

Use the following Willoughby Model Number:
WH-2400-L-1.6-WO-LG-AQCT-BN-BBN-1-WB-BWS-VC-DC

Recommended Specifications

Modular Handicap-ADA Compliant* Patient Care Unit in decorator cabinet shall be: Willoughby Model No. **WH-2400**

(Select from model number and options list on next page)

<u>Unit shall be wall mounted and shall include</u>

the following standard equipment and features:

Cabinet:

Modular Type 304 stainless steel welded cabinet shall include:

- Solid polymer exterior cabinet panels and doors (Doors have rounded edges to enhance patient safety)
- Solid surface countertop and integral lavatory bowl
- Toilet tissue holder conveniently located on the cabinet face
- Integral ADA grab bar
- Standard side-mounted bedpan washer concealed behind a separate cabinet door (Integral dialysis box is optional.)

Toilet:

Standard siphon jet type toilet shall include:

- Elongated toilet bowl with contoured seat and lid
- Integral crevice-free self-draining flushing rim w/ positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior; exterior finished in an antimicrobial gloss white powder coat enamel finish**
- Toilet shall require 35 psi min. flushing pressure and shall meet the requirements of ASME A112.19.3/CSA B45.4.

Lavatory:

Solid surface lavatory shall include:

- Oval-shaped bowl, 15" x 11-1/2", w/ grid drain
- Rigid gooseneck spout faucet w/ laminar flow nozzle
- Antimicrobial solid surface additive to minimize bacteria growth*

Optional Features:

- Lavatory waste traps and stops are available options
- Integral solid surface lav. bowl can be ordered in one of two contrasting colors to visually separate bowl from countertop
- If bedpan washer spray assembly with volume control (BWS-VC) is desired, then an elevated pressure type vacuum breaker by other is recommended to prevent backflow from occurring. Consult local codes for backflow prevention device requirements.

Mounting

Anchoring shall be through the front and through the floor (anchoring hardware provided by others). Unit requires no chase area for installation and maintenance. Standard siphon jet toilet shall have a minimum 17" rim height (less seat) and withstand loading up to 2000 lbs. with no measurable deflection and loading up to 5000 lbs. with no permanent damage.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

*Certified to CSA Standard B45.4-99 and IAPMO PS 61-92, compliant to ADA, ADAAG, ANSI and CA Title 2.



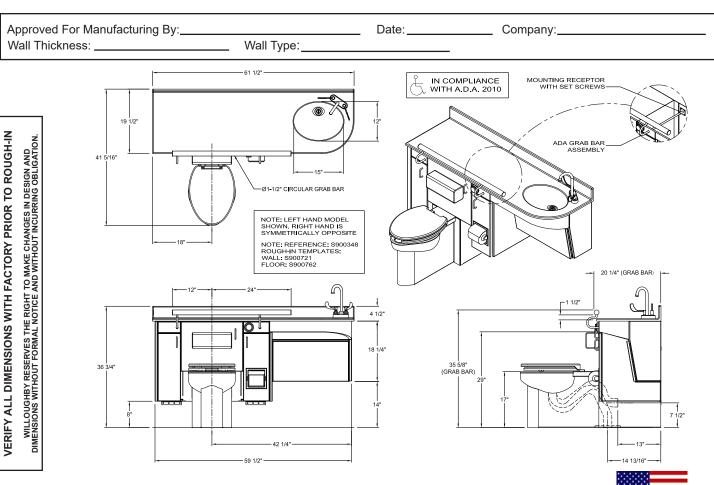
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1.) Patient Care Unit Model Number:		Model Number:	6.) Countertop Color (AQCT) (Must Specify):		10.) Other Options:		
■ WH-24	100-R	(Right hand toilet, Left sink)	■ BN	Bone	BWS-VC	Bedpan Washer Spray Assembly w/	
■ WH-24	100-L	(Left hand toilet, Right sink)	☐ GW	Glacier White		Volume Control (Standard)	
			☐ GG	Grey Granite	■ SDB	Integral Cabinet Single Valve Dialysis Box	
2.) Flush	Valve GPF	(Must Specify):	☐ SS	Sandstone	DDB	Integral Cabinet Dual Valve Dialysis Box	
☐ 1.28 G	PF HET (4.	.8 Lpf) (WaterSense Labeled)	■ WG	White Granite	□ DC	Antimicrobial White Exterior Toilet	
□ 1.6 GF	PF ULF (6.0	Lpf) (Standard)	□ BG	Black Granite		Finish*(Standard)	
☐ 3.5 GF	PF (13.2 Lpf	f) (3" waste tube required)	■ NB	Nocturnal Blue	□ BL	Bedpan Lugs	
			□ RC	Red Coral			
3.) Toilet	Fixture (St	ainless Steel):	□ SG	Sea Green	11.) Code Vari	iances:	
■ WO	Floor Mou	inted Toilet/Wall Outlet			■ TMV	Inline Thermostatic Mixing Valve	
☐ FO	Floor Mou	inted Toilet/Floor Outlet	7.) Count	ertop Sink Bowl Color:	□ PTC	'P' Trap w/Clean-out Plug	
			□ BCM	Countertop-matching (Standard)	□ LSS	1/2" x 3/8" Lavatory Supply Stops	
4.) Toilet	Waste		BBN	Bone	☐ TF12PI	12v Plug-in Transformer** (SSF faucet only)	
☐ TWC_	Toilet Was	ste Coupling, for (WO) only	□ BGW	Glacier White	☐ TF12HW	12v Hard-wire Transformer (SSF faucet only)	
(Must Spe	cify Conne	ction):			Other		
	□ 3P	Connecting to 3" PVC	8.) Backs	plash Orientation:	Other		
	☐ 3C	Connecting to 3" Cast Iron	1	Back Wall Only (1 Wall) (Standard)			
	□ 4P	Connecting to 4" PVC	2	Right Hand Corner (2 Wall)	*Antimicrobia	I properties are built-in to inhibit the growth	
	□ 4C	Connecting to 4" Cast Iron	□ 3	Left Hand Corner (2 Wall)	of bacteria the	at may affect this product. The antimicrobial	
☐ TWG	Toilet Was	ste Gasket, for (FO) only	4	Alcove (3 Wall)	properties do	not protect users or others against bacteria,	
					viruses, germ	s, or other disease organisms. Always use	
5.) Exterio	or Polymer	Panel Color (Must Specify):	9.) Faucet:		good hygienic	c cleaning practices.	
□ AW	Arctic Whi	ite	■ WB	Gooseneck Spout, Laminar Flow,			
■ WW	White/Wh	ite		Wristblade Handles, 4CC	**(Req. 110V p	power through ground fault interrupter (GFCI)	
LG LG	Light Grey	/	SSF	Gooseneck Sensor Spout, Center	receptacle)		
□ SN	Sanshade	e (Almond)		Shank IR Operated, Laminar Flow			
☐ SM	Seafoam			(12v transformer is required)			
☐ DG	Dolphin G	rey	☐ SSFB	Gooseneck Sensor Spout,			
	•	-		Center Shank IR (Battery Operated),			
				Laminar Flow			



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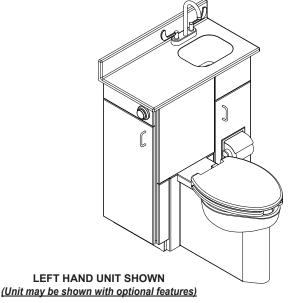
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MADE IN THE U.S.A.

WH-2800 Patient Care Unit







To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Patient Care Unit with left hand toilet, light grey cabinet, bone colored countertop, bone colored bowl, wristblade facucet, and antimicrobial white exterior toilet finish*

Use the following Willoughby Model Number: WH-2800-L-1.6-TS-WO-LG-BN-BBN-1-WB-DC

Recommended Specifications

Modular Patient Care Unit in decorator cabinet shall be: Willoughby Model No. **WH-2800**

(Select from model number and options list on next page)

<u>Unit shall be free standing and shall include</u>

the following standard equipment and features:

Cabinet:

Modular Type 304 stainless steel welded cabinet shall include:

- Solid polymer exterior cabinet panels and doors (Doors have rounded edges to enhance patient safety)
- Solid surface countertop and integral lavatory bowl
- Toilet tissue holder conveniently located on the cabinet face (Integral bedpan washer and dialysis box are available options.)

Toilet

Standard siphon jet type toilet shall include:

- Elongated toilet bowl with contoured seat and lid
- Integral crevice-free self-draining flushing rim w/ positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior; exterior finished in an antimicrobial gloss white powder coat enamel finish*

Toilet shall require 35 psi min. flushing pressure and shall meet the requirements of ASME A112.19.3/CSA B45.4.

Lavatory

Solid surface lavatory shall include:

- Rectangular bowl, 9-3/4" x 7-3/4" x 6" deep, w/ grid drain
- Rigid gooseneck spout faucet w/ laminar flow nozzle
- Antimicrobial solid surface additive to minimize bacteria growth*

Optional Features:

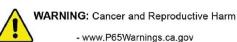
- Lavatory waste traps and stops are available options
- Integral solid surface lav. bowl can be ordered in one of two contrasting colors to visually separate bowl from countertop
- If bedpan washer spray assembly with volume control (BWS-VC) is desired, then an elevated pressure type vacuum breaker by other is recommended to prevent backflow from occurring. Consult local codes for backflow prevention device requirements.

Mounting:

Anchoring shall be through the front and through the floor (anchoring hardware provided by others). Unit requires no chase area for installation and maintenance. Standard siphon jet toilet shall have a minimum 17" rim height (less seat) and withstand loading up to 2000 lbs. with no measurable deflection and loading up to 5000 lbs. with no permanent damage.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.



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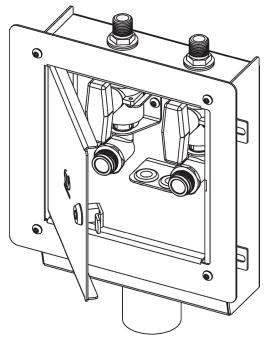
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1.) Patier	nt Care Unit Model Number:	6.) Count	ertop Color (AQCT) (Must Specify):	10.) Other Op	otions:
☐ WH-28	,	☐ BN	Bone	☐ BWS-VC	Bedpan Washer Spray Assembly w/
☐ WH-28	800-L (Left hand toilet, Right sink)	☐ GW	Glacier White		Volume Control (Standard)
		☐ GG	Grey Granite	☐ SDB	Integral Cabinet Single Valve Dialysis Box
	Valve GPF (Must Specify):	☐ SS	Sandstone	☐ DDB	Integral Cabinet Dual Valve Dialysis Box
_	SPF HET (4.8 Lpf) (WaterSense Labeled)	☐ WG	White Granite	DC DC	Antimicrobial White Exterior Toilet
_	PF ULF (6.0 Lpf) (Standard)	☐ BG	Black Granite		Finish*(Standard)
☐ 3.5 GI	PF (13.2 Lpf) (3" waste tube required)	☐ NB	Nocturnal Blue	☐ BL	Bedpan Lugs
2 \ Toilet	Fixture (Stainless Steel):	☐ RC ☐ SG	Red Coral Sea Green	☐ RCC	Roll Away Closet Cover (Exam Seat)
□ WO	Floor Mounted Toilet/Wall Outlet	_ 36	Sea Green	11.) Code Vai	riances:
☐ FO	Floor Mounted Toilet/Floor Outlet	7) Count	ertop Sink Bowl Color:	☐ TMV	Inline Thermostatic Mixing Valve
	Tiod Mountag Tollog Tiod Guide	☐ BCM	Countertop-matching (Standard)	D PTC	'P' Trap w/Clean-out Plug
4.) Toilet	Waste	☐ BBN	Bone	LSS	1/2" x 3/8" Lavatory Supply Stops
TWC_	_ Toilet Waste Coupling, for (WO) only	BGW	Glacier White	TF12PI	12v Plug-in Transformer** (SSF faucet only)
(Must Spe	ecify Connection):			☐ TF12HW	12v Hard-wire Transformer (SSF faucet only)
	☐ 3P Connecting to 3" PVC	8.) Backs	plash Orientation:	Other	
	☐ 3C Connecting to 3" Cast Iron	1	Back Wall Only (1 Wall) (Standard)	Other	
	4P Connecting to 4" PVC	<u> </u>	Right Hand Corner (2 Wall)		
□ TW0	4C Connecting to 4" Cast Iron	<u></u> 3	Left Hand Corner (2 Wall)		al properties are built-in to inhibit the growth
☐ TWG	Toilet Waste Gasket, for (FO) only	4	Alcove (3 Wall)		nat may affect this product. The antimicrobial
5) Evtori	or Polymer Panel Color (Must Specify):	9.) Fauce	t ·		o not protect users or others against bacteria, ns, or other disease organisms. Always use
AW	Arctic White	9.) Fauce	Gooseneck Spout, Laminar Flow,		is, or other disease organisms. Always use ic cleaning practices.
☐ WW	White/White	_ ***	Wristblade Handles, 4CC	900a nygieni	
LG	Light Grey	☐ FPF	Gooseneck Spout, Laminar Flow,	**(Reg. 110V	power through ground fault interrupter (GFCI)
SN	Sanshade (Almond)	_	Foot Pedal Valve	receptacle)	. , ,
☐ SM	Seafoam	☐ SSF	Gooseneck Sensor Spout, Center		
☐ DG	Dolphin Grey		Shank IR Operated, Laminar Flow		
			(12v transformer is required)		
		☐ SSFB	Gooseneck Sensor Spout,		
			Center Shank IR (Battery Operated), Laminar Flow		
Appro	ved For Manufacturing By:		Date:		Company:
Wall T	hickness:	_ Wall	Туре:	_	
	28 3	3/4"	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS		
FACTORY PRIOR TO ROUGH-IN TO MAKE CHANGES IN DESIGN AND AND WITHOUT INCURRING OBLIGATION.		8 1/8"	SYMMETRICALLY OPPOSITE NOTE: REFERENCE: \$90072 ROUGH-IN TEMPLATES: WALL: \$900516 FLOOR: \$900517		3/4"
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO REWITH WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OB	40" 32 7/8"		36"		8 1/2"

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DB Series Dialysis Supply and Waste Box



Recommended Specifications

Dialysis Supply and Waste Box shall be: Willoughby Model No. **DB-____**(Select from model number and options list on next page)

The Dialysis Box shall be fabricated from Type 316 stainless steel with continuous-welded seams. Wall flange and door shall be Type 316 stainless steel. Ball valves and fittings shall be NSF-61 PVC (polyvinyl chloride) and nylon for corrosion resistance with seals in the ball valve. Fittings shall be provided to enable flushing of the supply line.

Technical Data

Dialysis Supply:

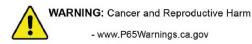
Standard supply valves and fittings are PVC (polyvinyl chloride) and nylon (Stainless steel valves and fittings are an available option). The ball-type valves included with the box will have O-ring seals and shall be securely anchored to the box. The valves are furnished with flushing fittings for connecting to the valve outlets when the supply line is flushed into the waste receptor.

Waste Box / Receptor:

All Dialysis Box components that come into contact with waste water are fabricated using Type 316 stainless steel with continuous-welded seams. Both the interior of the box as well as exposed parts of the waste receptor will have a standard satin finish. The rigid, welded hose bracket can hold up to two discharge hoses. The waste outlet is a 2-3/8" O.D. stainless steel tail-piece and can be connected directly to a nominal 2" glass or plastic drain line with a mechanical coupling.

Wall Flange and Door:

An adjustable wall flange is provided to cover any space between the wall and box and is securely anchored with phillips head screws at each corner. A lockable door with cylinder lock and two keys is an available option. Both the wall flange and door are fabricated from Type 316 stainless steel.



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1.) Base Model Number:

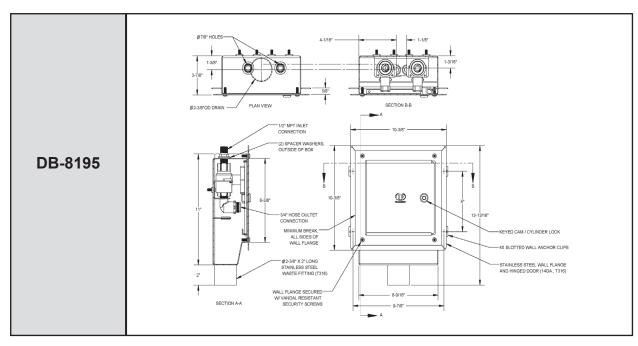
□ DB-8190
 □ DB-8191
 □ One-valve Supply Dialysis Box w/ Wall Flange, Less Door
 □ DB-8195
 □ DB-8196
 □ DB-8

2.) Other Options:

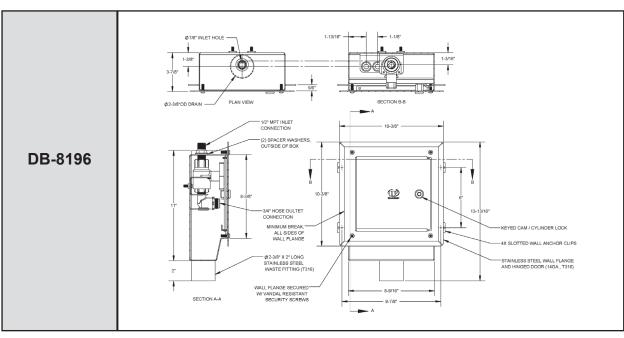
☐ SSVF Stainless Steel Ball Valves and Fittings

Other Other

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____



VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.

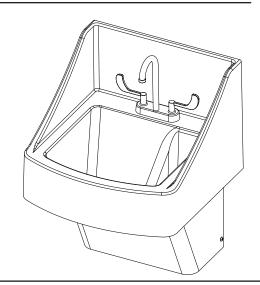


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WICS-2222 Infection Control **Hand Washing Sink** A.D.A. Compliant







Recommended Specifications

Wall-hung Infection Control Hand Washing Sink shall accommodate one user and is designed to minimize spread of infectious disease. ADA compliant solid surface sink shall be: Willoughby Model No. **WICS-2222**

The sink bowl with integral side and rear splash-guards shall be constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive*. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

WICS-2222 sink shall be supplied with:

- Antimicrobial drain and tailpiece* (trap by others, an optional antimicrobial trap (AMT) is available*)
- 1.5 gpm non-aerating laminar outlet, 4" CC, rigid 3-1/2" gooseneck, wristblade faucet** (optional infrared (IR) faucet models and thermostatic mixing valve available)
- Fully welded wall hung pedestals for surface mounting (mounting hardware by others)
- One piece formed stainless steel trap cover w/ stainless steel mounting hardware

Infectious Control Features:

- Deep sink basin w/ sloped edges to minimize splashing
- Integral side and rear splash-guards to limit splash landing outside of bowl
- Offset sink drain to reduce aerosolization of trap contents
- Antimicrobial solid surface additive to minimize bacteria
- Antimicrobial drain and tail piece to restrict growth and colonization of bacteria* (optional trap available)
- No overflow in sink basin to limit possible area for bacteria growth
- Engineered to meet or exceed requirements of CSA Z8000

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an infection control hand washing sink with a stainless steel pedestal, 1.5 gpm non-aerating laminar outlet, 4" CC, rigid 3-1/2" gooseneck, wristblade faucet, in sandstone color

Use the following Willoughby Model Number:
WICS-2222-WB2-SS

ADA, TAS, UFAS, CSA Z8000 and Plumbing Standard

Compliant: When the lavatory is mounted at the standard adult rim height, it is designed to provide compliance with all applicable ADA, TAS, UFAS accessibility standards. Fixture complies to CSA Z8000. Fixture is certified to CSA B45, 5-11/IAPMO Z124-2011 harmonized plumbing standard.

Mounting:

The sink may be surface-mounted as supplied or supported by inwall carriers supplied by others. Proper backing for surface-mounted sinks provided by others.

Optional Features:

Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.



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1.) Lavatory Model:		4.) Lavatory Deck Colors:			
☐ WICS-2	2222 Infection Control Hand Washing Sink	■ BN	Bone		
		☐ GW	Glacier W	hite	
2.) Faucet**:		☐ GG	Grey Granite		
☐ WB2	1.5 gpm Laminar Flow, 4CC, Rigid 3-1/2" Gooseneck	□ SS	Sandstone		
	Wristblade Faucet (Standard)	■ WG	White Gra	nite	
☐ SSF	Gooseneck Sensor Spout, Center Shank IR Operated,	□ BG	Black Gra	nite	
	Laminar Flow (12v transformer is required)	■ NB	Nocturnal	Blue	
SSFB	Gooseneck Sensor Spout, Center Shank IR (Battery Operated),	□ RC	Red Coral		
	Laminar Flow	☐ SG	Sea Greer	1	
■ NV	No Valve, No Faucet/Spout- Faucet by Others				
	(Select Hole Punching if needed)	5.) Optio	ns:		
		■ TMV		Inline Thermostatic Mixing Valve	
3.) Hole Drilling Selection (Faucet by Others):		AMT		Antimicrobial Trap*	
NOTE: If hole drilling is required, please submit faucet for approval		☐ TF12F	기	12v Plug-in Transformer (SSF faucet only)***	
☐ 4CC	4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:)	TF12l	HW	12v Hard-wire Transformer (SSF faucet only)	
☐ 8CC	8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:)				
☐ 1CC	Center Shank, (1) Ø1-1/4" Hole	***(Req. 110V power through ground fault interrupter (GFCI) receptacle)			
□ SP	Special Punching/Drilling (Specify hole punching dim.)				
	SP:				

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.

**NOTICE: Faucet options for the WICS-2222 Infection Control Sink have been selected to specifically minimize splashing and aerosolization when used with the WICS-2222. Willoughby Industries will not be held liable for any unintended splashing resulting from use of a faucet not supplied by Willoughby Industries or without prior approval by Willoughby Industries.

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PWS Series Patient Wash Station





To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Patient Wash Station with an Arctic White cabinet, Grey Granite countertop, and 4CC 10" Gooseneck, Wrist Blade Handle Faucet

Use the following Willoughby Model Number:

PWS37-AW-GG-WB

Recommended Specifications

Patient Wash Station shall be: Willoughby Model No. PWS-(select from model number and options list on next page)

ADA compliant wash station shall be wall mounted and manufactured from Type 304 stainless steel and solid polymer panels with Willoughby Aquasurf® Solid Surface cast countertop with integral lavatory bowl.

Standard features include:

- Cabinet exterior finished in solid polymer
- Aguasurf® Solid Surface countertop and lavatory
- · Antimicrobial Solid Surface additive to minimize bacteria growth*
- · Lavatory integral to countertop
- Fully welded stainless steel frame

Cabinet

Cabinet framework is formed and welded Type 304 stainless steel with interior satin finish. Exterior attached fixed panels are solid polymer, which is moisture resistant and non-porous. Front access cabinet shall have a single fixed panel. The edge finishes are smooth and rounded over to enhance safety.

Anchoring of the cabinet shall be with surface mounted 'Z' clips and screw anchors through cabinet into vertical wall supports (by others).

Lavatory

Aquasurf® Solid Surface lavatory is a cast component manufactured of alumina-trihydrate, resin and antimicrobial additive*. The lavatory unit is comprised of a cast deck with an integral bowl.

Aquasurf® Solid Surface 22" deep countertop deck with an integral 12-1/2" x 17-1/2" lavatory sink including depressed soap ledge. Cast lavatory deck shall have an integral coved backsplash and round-over finished edge.

Deck mounted faucets are available optionally (select from model number and options list on next page).

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.



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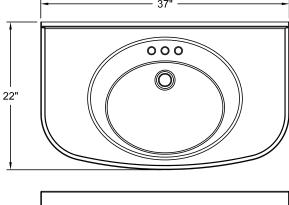
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1.) Wash	Station Model Number:	4.) Hole	Drilling Selection (Faucet by Others):
☐ PWS3	7 Patient Wash Station, 37" Cabinet	■ NV	No Faucet Holes (Standard)
		☐ 4CC	4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:)
2.) Cabinet (Exterior Polymer-Indicate Color):		☐ 8CC	8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:)
□ AW	Arctic White	☐ 1CC	Center Shank, (1) Ø1-1/4" Hole
■ WW	White/White	□ SP	Special Drilling (Specify hole drilling dim.)
LG	Light Grey		SP:
□ SN	Sanshade (Almond)		
☐ SM	Seafoam	5.) Fauce	et:
DG	Dolphin Grey	■ WB	4CC 10" Gooseneck, Wrist Blade Handles
		SSF	Gooseneck Sensor Spout, Center Shank, Infrared
3.) Solid Surface Colors:			(Hardwired), Laminar Flow (12v transformer is required)
■ BN	Bone	☐ SSFB	Gooseneck Sensor Spout, Center Shank, Infrared
☐ GW	Glacier White		(Battery Operated), Laminar Flow
GG GG	Grey Granite		
SS	Sandstone	6.) Other	Options:
WG	White Granite	PTC	P-Trap w/ Clean-Out Plug
BG	Black Granite	■ TMV	Thermostatic Mixing Valve
■ NB	Nocturnal Blue	LSS	1/2" x 3/8" Lavatory Supply Stops
□ RC	Red Coral	☐ TF12I	PI 12v Plug-in Transformer (SSF faucet only)
☐ SG	Sea Green	☐ TF12I	HW 12v Hard-wire Transformer (SSF faucet only)
		Other	·
		D 04h	_

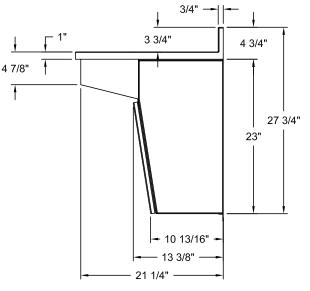
Approved For Manufacturing By:______ Date:_____Company:______
Wall Thickness:______ Wall Type:_____





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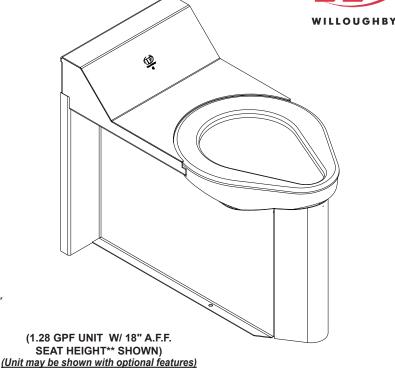
BEHAVIORAL HEALTH PRODUCTS



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Willoughby Industries - Behavioral Health Products

ASETW-1490-FM
Ligature-resistant
Rear Mounted
Wall Outlet
Floor Mounted
Blowout Series
Toilet



IN COMPLIANCE WITH A.D.A. 2010

** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant, Wall Outlet, Floor Mounted, Blowout Series Toilet with back spud, 18" ADA seat height, 1.28 GPF, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, high polish seat, wall sleeve, and toilet shipping cover

Use the following Willoughby Model Number:
ASETW-1490-FM-BS-HC-1.28-TWE-TWC3P-FV-FVT-HPS-WS-TSC

Recommended Specifications

Ligature-resistant, Rear Mounted, Wall Outlet, Floor Mounted, Blowout Series Toilet shall be: Willoughby Model No. **ASETW-1490-FM** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

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Toilet shall be blowout type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA R45 4

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Standard ligature-resistant toilet skirt shall extend to floor as close to front of toilet bowl as possible, virtually eliminating open space under the fixture.

Anchoring shall be by standard 6-point system:

(4 in the wall and 2 in the floor): threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Floor anchoring hardware by others.

Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.

LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.



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B27-1

1.) Base Model Number:	7.) Other Options:
□ ASETW-1490-FM Ligature-resistant, Rear Mounted, Wall Outlet,	☐ T4 Manual Reset Toilet Overflow Preventer, Requires:
Floor Mounted, Blowout Series Toilet	(FV) Hydraulic Flush Valve and Accessible Chase
	☐ T4A Auto Reset Toilet Overflow Preventer, Requires:
2.) Inlet Location:	(FV) Hydraulic Flush Valve and Accessible Chase
BS Back Spud	□ ET4 Electronic Toilet Overflow Preventer*, Requires (EFVP),
☐ TS Top Spud	Accessible Chase, & (WUCC-3010) or (WMSII) control
2 \ Tailet Seet Height	☐ TFE Toilet Flush Extension (Specify if more than 1")
3.) Toilet Seat Height: 15" Seat Height (Standard)	 □ FVT Flush Valve Connection (Back Spud Only) □ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
□ HC 18" Seat Height, Handicap-ADA Compliant	□ ASFVCADA Ligature-resistant, rop Spud Only)
TIC TO Seat Height, Handicap-ADA Compliant	□ AP Flush Valve Access Panel (Allows access to chase mounted
4.) Toilet Waste:	flush valve from fixture side)
☐ TWE Toilet Waste Extension (Standard)	DC Decorator Color (Fixture exterior only - White)
TW3 3" Clean-out for (TWE)	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*
□ TW5 4" Clean-out for (TWE)	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
☐ GWC Gasketed Waste Connection	☐ HPS High Polish Seat
□ PC3 Pinned Clean-out Plug PVC-3"	☐ MT Wall Template
□ PCB3 Pinned Clean-out Plug Brass-3"	□ WS Wall Sleeve (Requires Accessible Chase)
□ PC4 Pinned Clean-out Plug PVC-4"	☐ TSC Toilet Shipping Cover
□ PCB4 Pinned Clean-out Plug Brass-4"	□ ASRTH1 Ligature-resistant Wall Mounted Recessed Tissue Holder
COH4 4" Clean-out Hook, 4" PVC Plug	(Rear Mounted, Requires Accessible Chase)
□ COHB4 4" Clean-out Hook, 4" Brass Plug	□ ASRTH2 Ligature-resistant Wall Mounted Recessed Tissue Holder
	(Front Mounted, 4-1/2" Depth)
5.) Waste Coupling for (TWE) Toilet Waste Extension:	□ ASRTH3 Ligature-resistant Wall Mounted Recessed Tissue Holder
TWC3P Connecting to 3" PVC	For 4" Stud Wall (Front Mounted, 3-1/2" Depth)
TWC3C Connecting to 3" Cast Iron	Other
□ TWC4P Connecting to 4" PVC □ TWC4C Connecting to 4" Cast Iron	9 \ Electronic Controle* (Must Hee Electronic Elect Valve)
I WC4C Connecting to 4" Cast Iron	8.) Electronic Controls* (Must Use Electronic Flush Valve): WUFC-4000 Pneutronic WMSII
6.) Flush Valve:	
, , , , , , , , , , , , , , , , , , , ,	□ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory
☐ FV Hydraulic Flush Valve (Includes Actuator) ☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf)	or if the Toilet is selected with an (ET4) overflow option)
□ 3.5 GPF (13.2 Lpf)**	*(Reg. 110V power through ground fault interrupter (GFCI) receptacle / breaker)
	(Neg. 1107 power through ground fault interrupter (GFGI) receptacle / breaker)
D EEV/D Electronic Eluch Volvo w/ (DZDR) Ligature recictant Diozo Duch	
□ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push	**For replacement fixtures only
Button (Pick Control)*	**For replacement fixtures only
Button (Pick Control)* □ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf)	**For replacement fixtures only
Button (Pick Control)* 1.28 GPF HET (4.8 Lpf) 1.6 GPF ULF (6.0 Lpf) 3.5 GPF (13.2 Lpf)**	**For replacement fixtures only
Button (Pick Control)* 1.28 GPF HET (4.8 Lpf) 1.6 GPF ULF (6.0 Lpf) 3.5 GPF (13.2 Lpf)**	**For replacement fixtures only
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SIDE VIEW

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Willoughby Industries - Behavioral Health Products

ASETW-1490-FM-FA
Ligature-resistant
Front Mounted
Wall Outlet
Floor Mounted
Blowout Series
Toilet





** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT (Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Front Access, Ligature-resistant, Wall Outlet, Floor Mounted Blowout Series Toilet with top spud, 18" ADA seat height, 1.6 GPF, gasketed waste connection, hydraulic flush valve, ligature-resistant ADA compliant flush valve cover, high polish seat, and toilet shipping cover

Use the following Willoughby Model Number:
ASETW-1490-FM-FA-TS-HC-1.6-GWC-FV-ASFVC-ADA-HPS-TSC

Recommended Specifications

Ligature-resistant, Front Mounted, Wall Outlet, Floor Mounted, Blowout Series Toilet shall be: Willoughby Model No. **ASETW-1490-FM-FA** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum
- 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Standard ligature-resistant toilet skirt shall extend to floor as close to front of toilet bowl as possible, virtually eliminating open space under the fixture.

Anchoring shall be through the front and through the floor (anchoring hardware provided by others).

Unit requires no chase area for installation and maintenance <u>unless specified with</u> any Toilet Waste Extension options or Toilet Overflow Preventer options.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed highefficiency flushometer to ensure the complete system meets the requirements of WaterSense.

LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.



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WIODEL NOWIDE	RAND OF HONS.		
1.) Base Model Number:	6.) Other Options:		
□ ASETW-1490-FM-FA Ligature-resistant, Front Mounted, Wall Outlet,	☐ T4 Manual Reset Toilet Overflow Preventer, Requires:		
Floor Mounted, Blowout Series Toilet	(FV) Hydraulic Flush Valve and Accessible Chase		
2.) Inlet Location:	☐ ET4 Electronic Toilet Overflow Preventer*, Requires (EFVP), Accessible Chase, & (WUCC-3010) or (WMSII) control		
□ BS Back Spud	☐ FVT Flush Valve Connection (Back Spud Only)		
☐ TS Top Spud	☐ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)		
	☐ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)		
3.) Toilet Seat Height:	□ APFM Flush Valve Access Panel Front Mounted (Allows access to		
□ 15" Seat Height (Standard) □ HC 18" Seat Height, Handicap-ADA Compliant	chase mounted flush valve from fixture side) DC Decorator Color (Fixture exterior only - White)		
The To Court reight, Handroap 7.157 Compilant	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*		
4.) Toilet Waste:	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*		
☐ GWC Gasketed Waste Connection (Standard)	☐ HPS High Polish Seat		
□ PC3 Pinned Clean-out Plug PVC-3"	☐ MT Wall Template		
□ PCB3 Pinned Clean-out Plug Brass-3" □ PC4 Pinned Clean-out Plug PVC-4"	 □ TSC Toilet Shipping Cover □ ASRTH1 Ligature-resistant Wall Mounted Recessed Tissue Holder 		
□ PCB4 Pinned Clean-out Plug Brass-4"	(Rear Mounted, Requires Accessible Chase)		
·	□ ASRTH2 Ligature-resistant Wall Mounted Recessed Tissue Holder		
5.) Flush Valve:	(Front Mounted, 4-1/2" Depth)		
□ FV Hydraulic Flush Valve (Includes Actuator)	□ ASRTH3 Ligature-resistant Wall Mounted Recessed Tissue Holder		
☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf) ☐ 3.5 GPF (13.2 Lpf)**	For 4" Stud Wall (Front Mounted, 3-1/2" Depth) LRCN Ligature-resistant Cap Nut		
□ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push	Other		
Button (Pick Control)*			
☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf)	7.) Electronic Controls* (Must Use Electronic Flush Valve):		
□ 3.5 GPF (13.2 Lpf)** □ RFVB Remote Flush Valve with Box	 □ WUFC-4000 □ Pneutronic □ WMSII □ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory 		
□ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf)	or if the Toilet is selected with an (ET4) overflow option)		
□ 3.5 GPF (13.2 Lpf)**	5. II ale 16.61 6 56.65 al. (2.1.) 5.5.11611 5.6161,		
□ REFVB Remote Electronic Flush Valve with Box*	*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)		
☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf)	***************************************		
□ 3.5 GPF (13.2 Lpf)** □ NFV No Flush Valve (Provided by Others)	**For replacement fixtures only		
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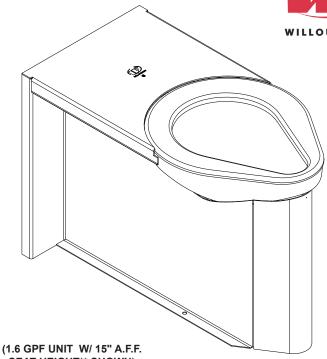
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SIDE VIEW



Willoughby Industries - Behavioral Health Products

ASETWS-1490-FM Ligature-resistant Rear Mounted Wall Outlet Floor Mounted Siphon Jet Series Toilet





** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT (1.6 GPF UNIT W/ 15 A.F.F. SEAT HEIGHT** SHOWN) (Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant, Wall Outlet, Floor Mounted Siphon Jet Series Toilet with back spud, standard 15" seat height, 1.6 GPF, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, high polish seat, wall sleeve, and toilet shipping cover

Use the following Willoughby Model Number:
ASETWS-1490-FM-BS-1.6-TWE-TWC3P-FV-FVT-HPS-WS-TSC

Recommended Specifications

Ligature-resistant, Rear Mounted, Wall Outlet, Floor Mounted, Siphon Jet Series Toilet shall be: Willoughby Model No. **ASETWS-1490-FM** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Standard ligature-resistant toilet skirt shall extend to floor as close to front of toilet bowl as possible, virtually eliminating open space under the fixture.

Anchoring shall be by standard 6-point system:

(4 in the wall and 2 in the floor): threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Floor anchoring hardware by others.

Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

LIGATURE-RESISTANT DISCLAIMER

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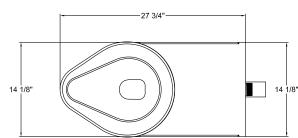
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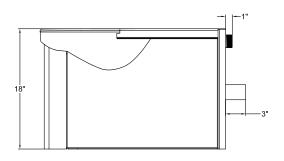
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MODEL NUMBER AND OPTIONS: 1.) Base Model Number: 7.) Other Options: ASETWS-1490-FM Ligature-resistant, Rear Mounted, Wall Outlet, □ T4 Manual Reset Toilet Overflow Preventer, Requires: Floor Mounted, Siphon Jet Series Toilet (FV) Hydraulic Flush Valve and Accessible Chase □ T4A Auto Reset Toilet Overflow Preventer, Requires: 2.) Inlet Location: (FV) Hydraulic Flush Valve and Accessible Chase Electronic Toilet Overflow Preventer*, Requires (EFVP), BS Back Spud □ ET4 Top Spud Accessible Chase, & (WUCC-3010) or (WMSII) control TFE Toilet Flush Extension (Specify if more than 1") 3.) Toilet Seat Height: FVT Flush Valve Connection (Back Spud Only) 15" Seat Height (Standard) ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)** Ligature-resistant ADA Flush Valve Cover (Top Spud Only)** HC 18" Seat Height, Handicap-ADA Compliant **ASFVCADA** Flush Valve Access Panel (Allows access to chase mounted AP 4.) Toilet Waste: flush valve from fixture side) Toilet Waste Extension (Standard) □ DC Decorator Color (Fixture exterior only - White) TWE 3" Clean-out for (TWE) Hard-wired Transformer, 110VAC to 24VAC* TW3 TF24H TW5 4" Clean-out for (TWE) TF24P Plug-in Transformer, 110VAC to 24VAC* GWC Gasketed Waste Connection HPS High Polish Seat Pinned Clean-out Plug PVC-3" \Box Wall Template PC3 MT PCB3 Pinned Clean-out Plug Brass-3" WS Wall Sleeve (Requires Accessible Chase) Pinned Clean-out Plug PVC-4" PC4 TSC Toilet Shipping Cover PCB4 Pinned Clean-out Plug Brass-4" ASRTH1 Ligature-resistant Wall Mounted Recessed Tissue Holder COH4 4" Clean-out Hook, 4" PVC Plug (Rear Mounted, Requires Accessible Chase)** COHB4 4" Clean-out Hook, 4" Brass Plug □ ASRTH2 Ligature-resistant Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)** 5.) Waste Coupling for (TWE) Toilet Waste Extension: Ligature-resistant Wall Mounted Recessed Tissue Holder ASRTH3 TWC3P Connecting to 3" PVC For 4" Stud Wall (Front Mounted, 3-1/2" Depth)** TWC3C Connecting to 3" Cast Iron Other Connecting to 4" PVC TWC4P TWC4C Connecting to 4" Cast Iron 8.) Electronic Controls* (Must Use Electronic Flush Valve): □ WUFC-4000 ■ Pneutronic □ WMSII 6.) Flush Valve: □ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory FV Hydraulic Flush Valve (Includes Actuator) or if the Toilet is selected with an (ET4) overflow option) □ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf) □ 3.5 GPF (13.2 Lpf)** *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push ☐ EFVP Button (Pick Control)* **For replacement fixtures only ☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf) □ 3.5 GPF (13.2 Lpf)** No Flush Valve (Provided by Others) □ NFV Approved For Manufacturing By: ___ Date: _____ Company: ___ Wall Thickness: Wall Type: _ 27 3/4" UNIT SHOWN IS A.D.A. COMPLIANT

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT INCURRING OBLIGATION.



(HC) MODEL (18" A.F.F. SEAT HEIGHT); SEE A.D.A. NOTE FROM FRONT PAGE

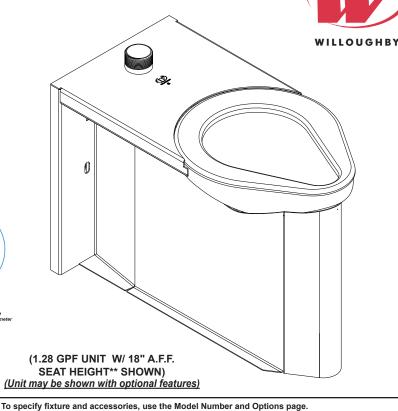


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CSA Groun

ASETWS-1490-FM-FA
Ligature-resistant
Front Mounted
Wall Outlet
Floor Mounted
Siphon Jet Series
Toilet



IN COMPLIANCE WITH A.D.A. 2010

** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT

18" A.F.F.SEAT HEIGHT

Example: To specify a Front Access, Ligature-resistant, Wall Outlet, Floor Mounted Siphon Jet Series Toilet with top spud, 18" ADA seat height, 1.28 GPF, gasketed waste connection, hydraulic flush valve, ligature-resistant ADA compliant flush valve cover, high polish seat, and toilet shipping cover

Use the following Willoughby Model Number:
ASETWS-1490-FM-FA-TS-HC-1.28-GWC-FV-ASFVC-ADA-HPS-TSC

Recommended Specifications

Ligature-resistant, Front Mounted, Wall Outlet, Floor Mounted, Siphon Jet Series Toilet shall be: Willoughby Model No. **ASETWS-1490-FM-FA** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Standard ligature-resistant toilet skirt shall extend to floor as close to front of toilet bowl as possible, virtually eliminating open space under the fixture.

Anchoring shall be through the front and through the floor (anchoring hardware provided by others).

Unit requires no chase area for installation and maintenance <u>unless specified with</u> any Toilet Waste Extension options or Toilet Overflow Preventer options.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.



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1.) Base Model Number:	6.) Other Options:
□ ASETWS-1490-FM-FA Ligature-resistant, Front Mounted, Wall Outlet,	☐ T4 Manual Reset Toilet Overflow Preventer, Requires:
Floor Mounted, Siphon Jet Series Toilet	(FV) Hydraulic Flush Valve and Accessible Chase
	□ ET4 Electronic Toilet Overflow Preventer*, Requires (EFVP),
2.) Inlet Location:	Accessible Chase, & (WUCC-3010) or (WMSII) control
☐ BS Back Spud	□ FVT Flush Valve Connection (Back Spud Only)
☐ TS Top Spud	☐ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)**
	☐ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)**
3.) Toilet Seat Height:	□ APFM Flush Valve Access Panel Front Mounted (Allows access to
15" Seat Height (Standard)	chase mounted flush valve from fixture side)
☐ HC 18" Seat Height, Handicap-ADA Compliant	□ DC Decorator Color (Fixture exterior only - White)
	□ TF24H Hard-wired Transformer, 110VAC to 24VAC*
4.) Toilet Waste:	□ TF24P Plug-in Transformer, 110VAC to 24VAC*
GWC Gasketed Waste Connection (Standard)	□ HPS High Polish Seat
□ PC3 Pinned Clean-out Plug PVC-3"	☐ MT Wall Template
□ PCB3 Pinned Clean-out Plug Brass-3"	□ TSC Toilet Shipping Cover
PC4 Pinned Clean-out Plug PVC-4" PCD 4 Pinned Clean out Plug Press 4"	□ ASRTH1 Ligature-resistant Wall Mounted Recessed Tissue Holder
□ PCB4 Pinned Clean-out Plug Brass-4"	(Rear Mounted, Requires Accessible Chase)**
E V Elvela Velano	□ ASRTH2 Ligature-resistant Wall Mounted Recessed Tissue Holder
5.) Flush Valve:	(Front Mounted, 4-1/2" Depth)**
☐ FV Hydraulic Flush Valve (Includes Actuator)	□ ASRTH3 Ligature-resistant Wall Mounted Recessed Tissue Holder
☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf)	For 4" Stud Wall (Front Mounted, 3-1/2" Depth)**
□ 3.5 GPF (13.2 Lpf)**	☐ LRCN Ligature-resistant Cap Nut☐ Other
□ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push	
Button (Pick Control)* ☐ 1.28 GPF HET (4.8 Lpf) ☐ 1.6 GPF ULF (6.0 Lpf)	□ Other
	7 \ Floatrania Controla* (Must Han Floatrania Flush Value)
□ 3.5 GPF (13.2 Lpf)** □ RFVB Remote Flush Valve with Box	7.) Electronic Controls* (Must Use Electronic Flush Valve): WUFC-4000 Pneutronic WMSII
□ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf)	□ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory
□ 3.5 GPF (13.2 Lpf)**	or if the Toilet is selected with an (ET4) overflow option)
□ REFVB Remote Electronic Flush Valve with Box*	of it the Tollet is selected with all (LT4) overflow option)
□ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf)	*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)
□ 3.5 GPF (13.2 Lpf)**	(1.69. 110 v powor amough ground launt morrapion (51 01) 1000ptaolo / broaker)
□ NFV No Flush Valve (Provided by Others)	**For replacement fixtures only
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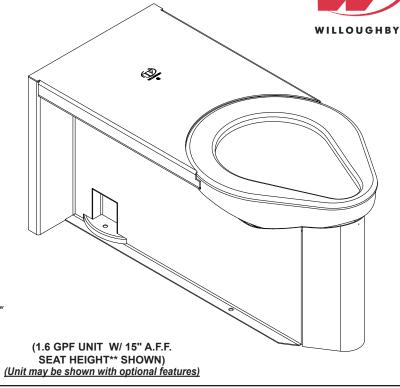
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SIDE VIEW

MADE IN THE **U.S.A**.

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ASETF-1490-FM
Ligature-resistant
Rear Mounted
Floor Outlet
Floor Mounted
Siphon Jet Series Toilet





IN COMPLIANCE
WITH A.D.A. 2010
& CBC 2016, 11B

** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant, Floor Outlet, Floor Mounted, Siphon Jet Series Toilet with back spud, standard 15" seat height, 1.6 GPF, standard gasketed waste connection, floor outlet waste connection, hydraulic flush valve, flush valve connection, high polish seat, wall sleeve, and toilet shipping cover

Use the following Willoughby Model Number:
ASETF-1490-FM-BS-1.6-GWC-TW4-FV-FVT-HPS-WS-TSC

Recommended Specifications

Ligature-resistant, Rear Mounted, Floor Outlet, Floor Mounted, Siphon Jet Series Toilet shall be:
Willoughby Model No. **ASETF-1490-FM**(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Standard ligature-resistant toilet skirt shall extend to floor as close to front of toilet bowl as possible, virtually eliminating open space under the fixture.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Floor anchoring hardware by others.

Unit shall require chase area for installation and maintenance.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.



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6.) Other Options: 1.) Base Model Number: ASETF-1490-FM Ligature-resistant, Rear Mounted, Floor Outlet, □ T4 Manual Reset Toilet Overflow Preventer, Requires: Floor Mounted, Siphon Jet Series Toilet (FV) Hydraulic Flush Valve and Accessible Chase □ T4A Auto Reset Toilet Overflow Preventer, Requires: 2.) Inlet Location: (FV) Hydraulic Flush Valve and Accessible Chase Electronic Toilet Overflow Preventer*, Requires (EFVP), BS Back Spud □ ET4 Top Spud Accessible Chase, & (WUCC-3010) or (WMSII) control □ FVT Flush Valve Connection (Back Spud Only) 3.) Toilet Seat Height: **ASFVC** Flush Valve Cover (Ligature-resistant, Top Spud Only) 15" Seat Height (Standard) ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only) Flush Valve Access Panel (Allows access to chase mounted HC 18" Seat Height, Handicap-ADA Compliant □ AP flush valve from fixture side) 4.) Toilet Waste: Decorator Color (Fixture exterior only - White) DC GWC Gasketed Waste Connection (Standard) TF24H Hard-wired Transformer, 110VAC to 24VAC* TW4 4" Cast Iron Closet Flange Plug-in Transformer, 110VAC to 24VAC* TF24P **HPS** High Polish Seat 5.) Flush Valve: MT Wall Template Hydraulic Flush Valve (Includes Actuator) Wall Sleeve (Requires Accessible Chase) □ FV \Box WS □ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf) TSC Toilet Shipping Cover □ 3.5 GPF (13.2 Lpf)** TFE Toilet Flush Extension (Specify if more than 1") ☐ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push ASRTH1 Ligature-resistant Wall Mounted Recessed Tissue Holder Button (Pick Control)* (Rear Mounted, Requires Accessible Chase) □ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf) □ ASRTH2 Ligature-resistant Wall Mounted Recessed Tissue Holder □ 3.5 GPF (13.2 Lpf)** (Front Mounted, 4-1/2" Depth) Ligature-resistant Wall Mounted Recessed Tissue Holder Remote Flush Valve with Box RFVB ASRTH3 ☐ 1.28 GPF HET (4.8 Lpf) ■ 1.6 GPF ULF (6.0 Lpf) For 4" Stud Wall (Front Mounted, 3-1/2" Depth) □ 3.5 GPF (13.2 Lpf)** LRCN Ligature-resistant Cap Nut REFVB Remote Electronic Flush Valve with Box* Other □ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf) Other □ 3.5 GPF (13.2 Lpf)**

8.) Electronic Controls* (Must Use Electronic Flush Valve):

WUFC-4000 ■ Pneutronic

WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)

**For replacement fixtures only

Approved For Manufacturing By: Wall Thickness: Wa	Date:	Company:
WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION. 1	Ø3/8" FLOOR ANCHOR HOLES FASTENERS BY OTHERS 7" 14" 19 1/4" 30 3/4" PLAN VIEW	LIGATURE-RESISTANT
WILLOUGHBY RESERVES THE RIGHT DIMENSIONS WITHOUT FORMAL NOTICE	(GW) FLOOR WASTE CONNECTION W/ 7 1/2" GASKET FLANGE (SK) LIGATURE- RESISTANT SKIRT	

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SIDE VIEW

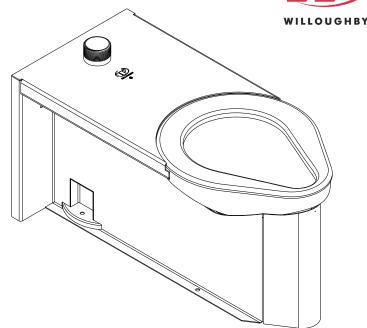
No Flush Valve (Provided by Others)

ASETF-1490-FM-FA Ligature-resistant Front Mounted Floor Outlet Floor Mounted

Siphon Jet Series

Toilet

Certified by CSA Group
Water-Sense certified only for use





** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT (1.6 GPF UNIT W/ 15" A.F.F. SEAT HEIGHT** SHOWN) (Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Front Access, Ligature-resistant, Floor Outlet, Floor Mounted Siphon Jet Series Toilet with top spud, standard 15" seat height, 1.6 GPF, standard gasketed waste connection, floor outlet waste connection, hydraulic flush valve, ligature-resistant flush valve cover, high polish seat, and toilet shipping cover

Use the following Willoughby Model Number: ASETF-1490-FM-FA-TS-1.6-GWC-TW4-FV-ASFVC-HPS-TSC

Recommended Specifications

Ligature-resistant, Front Mounted, Floor Outlet, Floor Mounted, Siphon Jet Series Toilet shall be: Willoughby Model No. **ASETF-1490-FM-FA** (Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum
 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Standard ligature-resistant toilet skirt shall extend to floor as close to front of toilet bowl as possible, virtually eliminating open space under the fixture.

Anchoring shall be through the front and through the floor (anchoring hardware provided by others).

Unit requires no chase area for installation and maintenance <u>unless specified with</u> any Toilet Waste Extension options or Toilet Overflow Preventer options.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.



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MODEL NUMBER AND OPTIONS: 1.) Base Model Number: 7.) Other Options: ASETF-1490-FM-FA Ligature-resistant, Front Mounted, Floor Outlet, □ T4 Manual Reset Toilet Overflow Preventer, Requires: Floor Mounted, Siphon Jet Series Toilet (FV) Hydraulic Flush Valve and Accessible Chase □ ET4 Electronic Toilet Overflow Preventer*, Requires (EFVP), 2.) Floor Outlet Rough-In: Accessible Chase, & (WUCC-3010) or (WMSII) control 4-1/4" Fixture Rough-In (Shown, Standard) □ FVT Flush Valve Connection (Back Spud Only) □ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only) 10' 10" Fixture Rough-In 12" Fixture Rough-In (Changes Overall Fixture Length to 32-3/4") **ASFVCADA** Ligature-resistant ADA Flush Valve Cover (Top Spud Only) 12" **APFM** Flush Valve Access Panel Front Mounted (Allows access to 3.) Inlet Location: chase mounted flush valve from fixture side) Back Spud DC Decorator Color (Fixture exterior only - White) Hard-wired Transformer, 110VAC to 24VAC* TS Top Spud TF24H TF24P Plug-in Transformer, 110VAC to 24VAC* 4.) Toilet Seat Height: **HPS** High Polish Seat Wall Template 15" Seat Height (Standard) MT 18" Seat Height, Handicap-ADA Compliant TSC Toilet Shipping Cover ASRTH1 Ligature-resistant Wall Mounted Recessed Tissue Holder 5.) Toilet Waste: (Rear Mounted, Requires Accessible Chase) Gasketed Waste Connection (Standard) ASRTH2 **GWC** Ligature-resistant Wall Mounted Recessed Tissue Holder TW4 4" Cast Iron Closet Flange (Front Mounted, 4-1/2" Depth) ASRTH3 Ligature-resistant Wall Mounted Recessed Tissue Holder For 4" Stud Wall (Front Mounted, 3-1/2" Depth) 6.) Flush Valve: Hydraulic Flush Valve (Includes Actuator) Remote Flush Valve with Box □ FV \Box **RFVB** □ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf) REFVB Remote Electronic Flush Valve with Box* □ 3.5 GPF (13.2 Lpf)** Ligature-resistant Cap Nut **LRCN** Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push EFVP Other Button (Pick Control)* Other □ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf) □ 3.5 GPF (13.2 Lpf)** 8.) Electronic Controls* (Must Use Electronic Flush Valve): □ RFVB Remote Flush Valve with Box WUFC-4000 Pneutronic ■ WMSII □ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf) □ 3.5 GPF (13.2 Lpf)** RFFVB Remote Electronic Flush Valve with Box*

□ 1.28 GPF HET (4.8 Lpf) □ 1.6 GPF ULF (6.0 Lpf)

□ 3.5 GPF (13.2 Lpf)*

WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)

□ NFV No Flush Valve (Provided by Others) **For replacement fixtures only Date: _____ Company: ___ Approved For Manufacturing By: ___ Wall Type: _ Wall Thickness: VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN ASETF-1490-FM-FA ASETF-1490-FM-FA-10" ASETF-1490-FM-FA-12" TO MAKE CHANGES IN DESIGN AND AND WITHOUT INCURRING OBLIGATION (4-1/4" ROUGH-IN) (10" ROUGH-IN) (12" ROUGH-IN) 4 1/4 6" 6" 6" 14 1/8" (O) 14 1/8" O 14 1/8" 14' -30 3/4" 30 3/4" 32 3/4" PLAN VIEW PLAN VIEW PLAN VIEW 'RESERVES THE RIGHT HOUT FORMAL NOTICE 2 3/4"-2 3/4" 3/4" 2 3/4" 15 15 WILLOUGHBY DIMENSIONS WITH SIDE VIEW SIDE VIEW SIDE VIEW LIGATURE-RESISTANT

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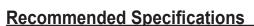




ASUW-1314-HEU
Stainless Steel
Single Person
Rear Mounted
Ligature-resistant
ADA-Compliant
Contoured
Washout Flush
High Efficiency Urinal







Stainless Steel, Single Person, Rear Mounted, Ligature-resistant, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal shall be: Willoughby Model No. **ASUW-1314-HEU** (Select from model number and options list on next page)

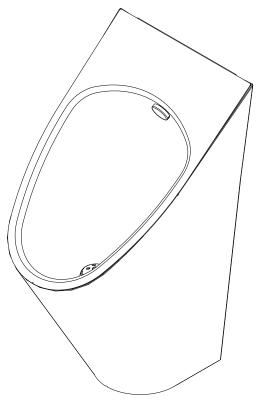
Fixture is fabricated from all 16 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless steel surfaces polished to a satin finish. Contoured interior and exterior surfaces for ease of cleaning.

Standard equipment shall include:

- Machined stainless steel flush nozzle
- Beehive strainer
- Removable P-trap with 1-1/2" F.I.P. waste connection
- 3/4" N.P.T. male inlet connection

High Efficiency Urinal shall be washout type requiring 1/8 to 1/2 GPF flush valve and 25 PSI minimum flushing pressure. Trap shall be fully enclosed and maintain a 3" seal.

Mounting hardware by others.



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Stainless Steel, Single Person, Rear Mounted, Ligature-resistant, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal with back spud, 1/8 GPF, wall sleeve, hydraulic flush valve, and Decorator Color- White

Use the following Willoughby Model Number: ASUW-1314-HEU-BS-0.125-WS-FV-DC

Unit requires chase area for installation and maintenance.

Urinals mounted at 17" rim height to comply with ANSI, ADA and UFAS accessibility requirements. Please consult local code as compliance is subject to the interpretation and requirements of the local code authority.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

LIGATURE-RESISTANT DISCLAIMER

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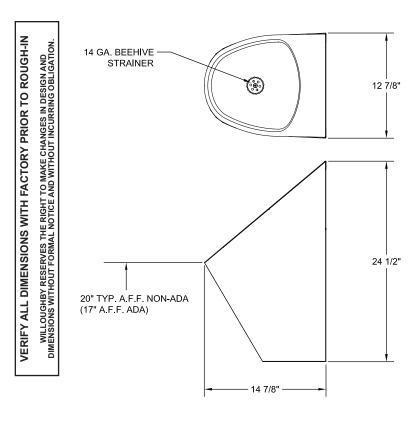
1.) Base Model Number: ASUW-1314-HEU Stainless Steel, Single Person, Rear Mounted, ■ WUFC-4000 Ligature-resistant, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal 2.) Inlet Location: ■ BS Back Spud 3.) Flush Valve: ☐ FV Hydraulic Flush Valve (Includes Actuator) ■ 0.5 GPF High Efficiency (HEU) (1.9 Lpf) ☐ 0.125 GPF High Efficiency (HEU) (0.4 Lpf) Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push ■ EFVP Button (Pick Control)* ☐ 0.5 GPF High Efficiency (HEU) (1.9 Lpf) ☐ 0.125 GPF High Efficiency (HEU) (0.4 Lpf) No Flush Valve (Provided by Others) ■ NFV 4.) Options: Wall Template ■ MT ■ WS Wall Sleeve (Requires Accessible Chase) ☐ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side) ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*

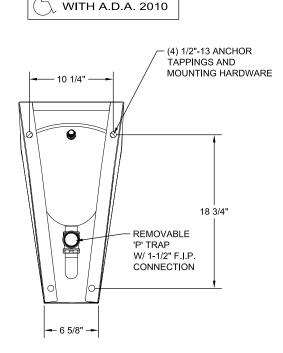
5.) Electronic Contro	ls* (Must	Use	Electronic	Flush Valve):

C-4000 Pneutronic WMSII

*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		





IN COMPLIANCE

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☐ TF24P

DC

OtherOther

Plug-in Transformer, 110VAC to 24VAC*

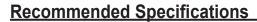
Decorator Color (Fixture exterior only - White)



ASUW-1314-HEU-FA
Stainless Steel
Single Person
Front Mounted
Ligature-resistant
ADA-Compliant
Contoured
Washout Flush
High Efficiency Urinal







Stainless Steel, Single Person, Front Mounted, Ligature-resistant, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal shall be:

Willoughby Model No. **ASUW-1314-HEU-FA** (Select from model number and options list on next page)

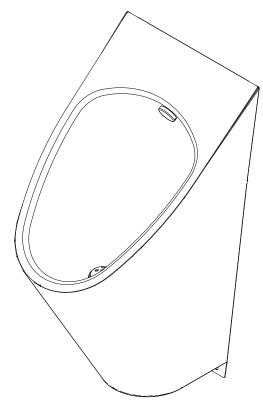
Fixture is fabricated from all 16 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless steel surfaces polished to a satin finish. Contoured interior and exterior surfaces for ease of cleaning.

Standard equipment shall include:

- Machined stainless steel flush nozzle
- Beehive strainer
- Removable P-trap with 1-1/2" F.I.P. waste connection
- 3/4" N.P.T. male inlet connection
- Removable access cover

High Efficiency Urinal shall be washout type requiring 1/8 to 1/2 GPF flush valve and 25 PSI minimum flushing pressure. Trap shall be fully enclosed and maintain a 3" seal.

Mounting hardware by others.



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Stainless Steel, Single Person, Front Mounted, Ligature-resistant, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal with back spud, 1/8 GPF, wall template, hydraulic flush valve, and Decorator Color- White

Use the following Willoughby Model Number:
ASUW-1314-HEU-FA-BS-0.125-MT-FV-DC

Unit requires no chase area for installation and maintenance unless specified with any options requiring an accessible chase.

Urinals mounted at 17" rim height to comply with ANSI, ADA and UFAS accessibility requirements. Please consult local code as compliance is subject to the interpretation and requirements of the local code authority.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

LIGATURE-RESISTANT DISCLAIMER

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B28-3

1.) Base Model Number: ■ ASUW-1314-HEU-FA Stainless Steel, Single Person, Front Mounted, Ligature-resistant, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal 2.) Inlet Location: ■ BS Back Spud 3.) Flush Valve: ☐ FV Hydraulic Flush Valve (Includes Actuator) ☐ 0.5 GPF High Efficiency (HEU) (1.9 Lpf) ☐ 0.125 GPF High Efficiency (HEU) (0.4 Lpf) Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push ■ EFVP Button (Pick Control)* ☐ 0.5 GPF High Efficiency (HEU) (1.9 Lpf) ☐ 0.125 GPF High Efficiency (HEU) (0.4 Lpf) No Flush Valve (Provided by Others) ■ NFV 4.) Options: Wall Template ■ MT ☐ APFM Flush Valve Access Panel Front Mounted (Allows access to chase mounted flush valve from fixture side) ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*

☐ TF24P Plug-in Transformer, 110VAC to 24VAC*

Decorator Color (Fixture exterior only - White)

■ WUFC-4000	Prieutronic	U WIVISII	
*(Req. 110V pow	er through ground faul	t interrupter (GFCI) r	eceptacle / breaker)

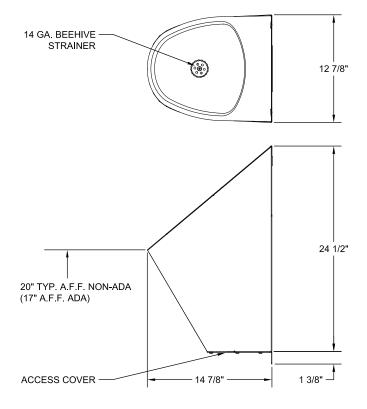
5.) Electronic Controls* (Must Use Electronic Flush Valve):

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		. •

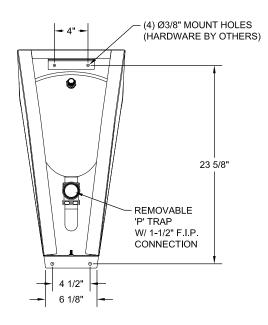


DC

□ Other□ Other





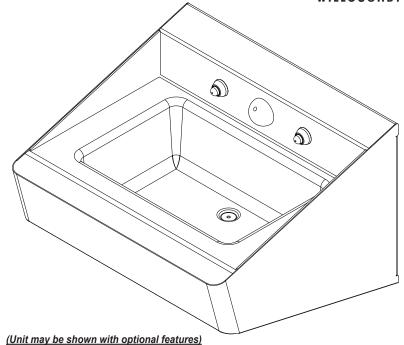


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WBLS-2018-HC Stainless Steel Ligature-resistant Rear Mounted Behavioral Lavatory



IN COMPLIANCE WITH A.D.A. 2010 & CBC 2016, 11B*

Recommended Specifications

Stainless Steel, Ligature-resistant, Rear Mounted, Behavioral Lavatory shall be: Willoughby Model No. **WBLS-2018-HC** (Select from model number and options list on next page)

Wall-hung angular profile fixture shall accommodate one user and is designed to minimize ligature points. Fixture shall be fabricated from 14GA. / 16GA. Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:

- Rectangular bowl, 14" x 9" x 5" deep
- Stainless steel ligature-resistant bubbler/filler
- Slow drain with air vent
- Elbow waste (1-1/2" Plain End)
- Angular profile with sloped top
- 0.5 GPM flow rate

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* Use "DFBH" suffix to be CBC compliant

Vandal Resistance/Safety Features:

The bubbler, push buttons, and slow drain are non-removable from the user-side and are designed to minimize ligature points. Supply and waste connections are concealed within the lavatory cabinet, with valves and water supplies remotely located in the mechanical chase. The lavatory is rear-access and does not have any exposed fasteners.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant Rear Mounted Stainless Steel Behavioral Lavatory with ligature-resistant bubbler/filler, dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, and elbow waste

Use the following Willoughby Model Number: WBLS-2018-HC-BPH-PML2-PBH-EB

ADA and ANSI Compliant:

When the lavatory is mounted at the standard adult rim height it is designed to comply with all applicable ADA and ANSI (Z124.3 and Z124.6) accessibility guidelines.

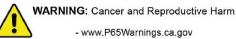
Mounting:

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick.

Unit shall require chase area for installation and maintenance; proper backing for lavatory mounting provided by others.

LIGATURE-RESISTANT DISCLAIMER

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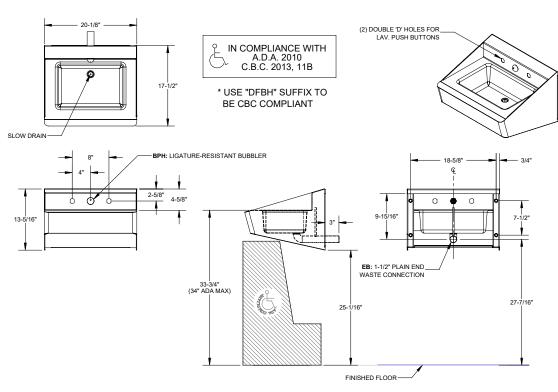
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B29-1

1.) Base I	Model Number:		6.) Lavatory Waste:	
WBLS	-2018-HC	Stainless Steel, Ligature-resistant, Rear Mounted, Behavioral Lavatory		
2.) Bubble	er Selection:		☐ SLOW Slow Drain (
,		nt Bubbler/Filler (Standard)	LW1 Thru-Wall E	,
_	Ligature-resistar	,		-1/2" Tube to 1-1/2" Tube
_	· ·			-1/2" Tube to 1-1/2" PVC/Cast Iron
2A.) ADA	CBC Drinking Fo	ountian Bubbler Selection:		
☐ DFBH	Ligature-resistar	nt DM Drinking Fountain Bubbler**	7.) Options:	
		ADA, Sec 602.5, w/ Panel Mounted Push Button)	MT Wall Templa	ite
	` .	,	☐ TF24H Hard-wire	d Transformer, 110VAC to 24VAC*
3.) Lavato	ory Valve Selection	on:	☐ TF24P Plug-in Tra	ansformer, 110VAC to 24VAC*
☐ NV	No Valve		☐ TH1 Single Towe	el Hook
_	Single Temp. Pn	eumatic Metering	☐ Right	☐ Left
PML2	Dual Temp. Pne	umatic Metering	TH2 Dual Towel I	Hook
E1L1	Single Temp. Ele	ectronic (pick control)*	 ☐ Right	☐ Left
E1L2	Dual Temp. Elec	etronic (pick control)*	☐ WS Wall Sleeve	(Requires Accessible Chase)
Valve Ma	nifold Options:		DC Decorator C	Color
Pneuma	ntic or Electronic C	Only:	☐ TMV In-line Therr	mostatic Mixing Valve
☐ MA2	■ MA3 ■ MA	A4	Other:	
			Other:	
4.) Lavato	ory Valve Actuation	on:		
☐ PBH	Ligature-resistar	nt Push Buttons	*(Req. 110V power th	rough ground fault interrupter (GFCI) receptacle / breaker
PZPB	Ligature-resistar	nt Piezo Electronic Push Buttons*		
wucc	C-3010 P	Must Use Electronic Push Button): neutronic		
Approv	ved For Manuf	acturing By:	Date:	Company:
		Wall Type:		- 'F', -
I vvali I	I IICKI ICSS	vvali rype		



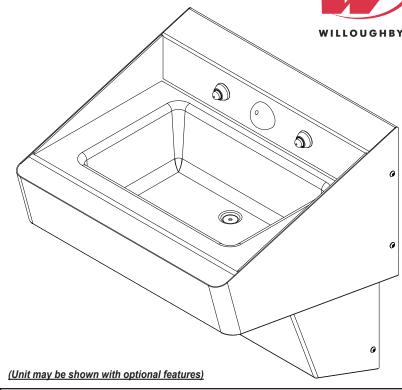


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WBLS-2018-HC-FA Stainless Steel Ligature-resistant **Front Mounted Behavioral Lavatory**



IN COMPLIANCE WITH A.D.A. 2010 & CBC 2016, 11B*

Recommended Specifications

Stainless Steel, Ligature-resistant, Front Mounted, Behavioral Lavatory shall be: Willoughby Model No. WBLS-2018-HC-FA (Select from model number and options list on next page)

Wall-hung angular profile fixture shall accommodate one user and is designed to minimize ligature points. Fixture shall be fabricated from 14GA. / 16GA. Type 304 stainless steel. The construction shall consist of an all-welded lavatory cabinet and all-welded trap enclosure, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:

- Rectangular bowl, 14" x 9" x 5" deep
- Stainless steel ligature-resistant bubbler/filler
- Slow drain w/ air vent
- Removable P-trap (1-1/2" F.I.P.)
- Angular profile with sloped top
- Removable trap enclosure attached with security screws
- 0.5 GPM flow rate
- * Use "DFBH" suffix to be CBC compliant

Vandal Resistance/Safety Features:

The bubbler, push buttons, and slow drain are non-removable from the user-side and are designed to minimize ligature points. Valve, water supplies, and waste connection are concealed within the trap enclosure. All exposed fasteners shall be vandal-resistant security type screws.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant Front Mounted Stainless Steel Behavioral Lavatory with ligature-resistant bubbler/filler, dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, and removable P-trap

Use the following Willoughby Model Number: WBLS-2018-HC-FA-BPH-PML2-PBH-RPT

ADA and ANSI Compliant:

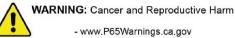
When the lavatory is mounted at the standard adult rim height it is designed to comply with all applicable ADA and ANSI (Z124.3 and Z124.6) accessibility guidelines.

Mounting:

Anchoring shall be from the front with mounting plate with anchoring holes. Unit does not require chase area for installation and maintenance; proper backing and anchoring hardware for lavatory mounting provided by others.

LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.



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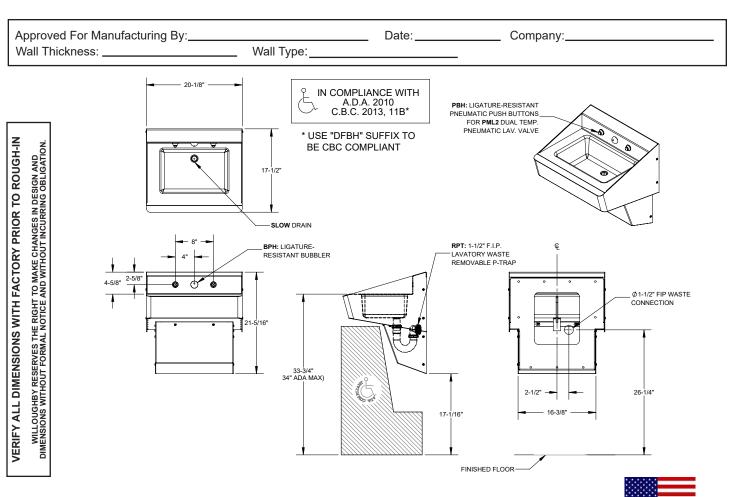
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1.) Base I	Model Number:		5.) Electronic Controls* (Must Use Electronic Push Button):
■ WBLS-2018-HC-FA Stainless Steel, Ligature-resistant,		Stainless Steel, Ligature-resistant,	☐ WUCC-3010 ☐ Pneutronic ☐ WMSII
		Front Mounted, Behavioral Lavatory	(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)
2.) Bubble	er Selection:		
BPH	Ligature-resistant Bu	ıbbler/Filler (Standard)	6.) Lavatory Waste:
☐ FLH	Ligature-resistant La	v. Filler	RPT Removable P-trap (Standard)
			OV Lavatory Overflow
2A.) ADA	CBC Drinking Fount	ian Bubbler Selection:	☐ SLOW Slow Drain (Standard)
DFBH	Ligature-resistant DN	Ո Drinking Fountain Bubbler**	
**(Compliant to ADA, Sec 602.5, w/ Panel Mounted Push Button)		, Sec 602.5, w/ Panel Mounted Push Button)	7.) Options:
			☐ MT Wall Template
3.) Lavatory Valve Selection:			☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*
■ NV	No Valve		☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
PML1	Single Temp. Pneum	natic Metering	☐ TH1 Single Towel Hook
☐ PML2	Dual Temp. Pneuma	tic Metering	☐ Right ☐ Left
E1L1	Single Temp. Electro	nic (pick control)*	☐ TH2 Dual Towel Hook
■ E1L2	Dual Temp. Electron	ic (pick control)*	☐ Right ☐ Left
			□ DC Decorator Color
4.) Lavato	ory Valve Actuation:		☐ TMV In-line Thermostatic Mixing Valve
PBH	Ligature-resistant Pu	ish Buttons	Other:
☐ PZPB	Ligature-resistant Pi	ezo Electronic Push Buttons*	☐ Other:

*(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker)



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ASWLDR-1922 Stainless Steel Ligature-resistant **Front Mounted Behavioral Healthcare** Lavatory **Powder Coated White**



Recommended Specifications

Stainless Steel, Ligature-resistant, Front Mounted, Behavioral Healthcare Lavatory, Powder Coated White shall be: Willoughby Model No. ASWLDR-1922 (Select from model number and options list on next page)

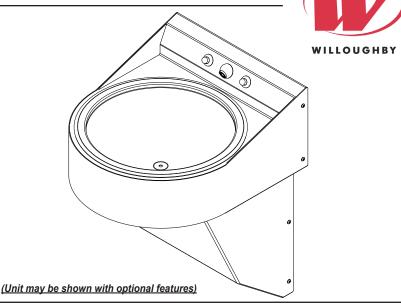
Wall-hung fixture shall accommodate one user and is designed to minimize ligature points. The lavatory will have rounded integral sloped backsplash and rounded integral ligature-resistant side splashes. Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be welded with removable trap enclosure. Fixture exterior, including deck, basin, and trap enclosure, shall have an antimicrobial gloss white powder coat enamel finish**. A bare stainless steel lavatory basin with polished satin finish is optional.

The pre-assembled lavatory sprayhead shall be machined of stainless steel and shall be controlled by a push button or infrared sensor. Lavatory sprayhead shall provide non-aerated water stream. Push button shall be machined of stainless steel, shall require less than 5 lbs. of force to activate, and shall be fully rounded to minimize use as a ligature point. Flow restrictor shall maintain flow rates at 0.5 GPM.

ASWLDR-1922 Lavatory shall be supplied with drain tailpiece, integral checkstops, flexible supply hoses, control valves, Class II 120/24 VAC plug-in transformers*. Fixtures with factory valves shall be furnished with thermostatic mixing valve. Operating supply water pressure range is 30-75 psi.

Vandal Resistance/Safety Features:

The sprayhead, push buttons, infrared sensor, slow drain and escutcheon are non-removable and are designed to minimize ligature points. Valve, water supplies and waste connection are concealed within trap enclosure. All exposed fasteners shall be vandal-resistant security type screws.



To specify fixture and accessories, use the Model Number and Options page

Example: To specify a single station Ligature-resistant, Stainless Steel, Behavioral Healthcare Lavatory, Powder Coated White with dual temp. ligature-resistant pneumatic push buttons, and stainless steel lavatory basin Use the following Willoughby Model Number:

ASWLDR-1922-PBH2-SSB

ADA, TAS, UFAS, and ANSI Compliant:

When the lavatory is mounted at the standard adult rim height it is designed to comply with all applicable ADA, TAS, UFAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Mounting:

The lavatory may be surface-mounted as supplied or supported by in-wall plate carriers supplied by others. Proper backing and anchoring hardware for mounting of lavatory provided by others.

Optional Features:

* Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock. (Not required on PML valves)

**Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.

LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.



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1.) Base Model Number:

☐ ASWLDR-1922 Stainless Steel, Ligature-resistant, Front Mounted, Behavioral

Healthcare Lavatory, Powder Coated White

2.) Valve Actuation:

☐ PBH1 Ligature-resistant Push Button for Single Temperature

Pneumatic Metering

☐ PBH2 Ligature-resistant Push Buttons for Dual Temperature

Pneumatic Metering

□ PZPB1 Ligature-resistant Piezo Push Button for Single Temperature

Electronic (w/ Pneutronic Control)*

☐ PZPB2 Ligature-resistant Piezo Push Buttons for Dual Temperature

Electronic (w/ Pneutronic Control)*

☐ IR Infrared Sensor, Plug-in*

☐ BO Infrared Sensor, Battery Operated

3.) Options:

Other

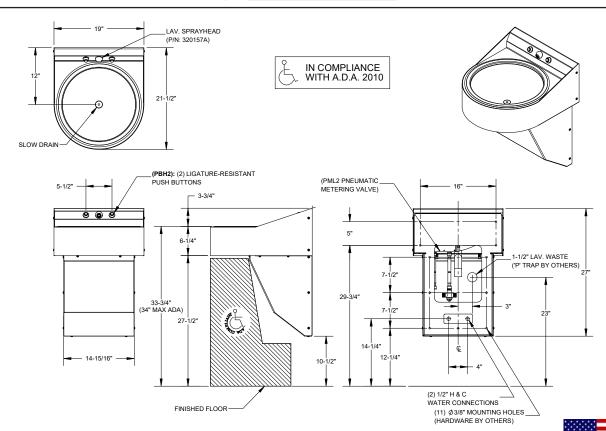
☐ SSB Stainless Steel Lavatory Basin (basin not powder coated)

☐ LDC Less Powder Coat Finish

□ TL Less In-line Thermostatic Mixing Valve□ LSH 1.5 gpm Laminar Flow Sprayhead□ Other

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		, ,



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ASWLDR-1922-DMF Stainless Steel Ligature-resistant **Front Mounted Behavioral Healthcare** Lavatory **Powder Coated White**



Recommended Specifications

Stainless Steel, Ligature-resistant, Front Mounted, Behavioral Healthcare Lavatory, Powder Coated White shall be: Willoughby Model No. ASWLDR-1922-DMF (Select from model number and options list on next page)

Wall-hung fixture shall accommodate one user and is designed to minimize ligature points. The lavatory will have rounded integral sloped backsplash and rounded integral ligature-resistant side splashes. Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be welded with removable trap enclosure. Fixture exterior, including deck, basin, and trap enclosure, shall have an antimicrobial gloss white powder coat enamel finish**. A bare stainless steel lavatory basin with polished satin finish is optional.

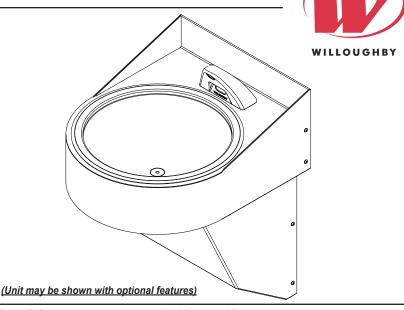
The faucet shall be constructed of cast 304 stainless steel with a polished exterior finish. The ligature-resistant faucet shall be surface mounted with no visible fasteners. The faucet shall provide non-aerated water stream. The faucet shall have a 35° angle of spray with 16° max swivel adjustment, with 1.5 GPM maximum flow rate.

ASWLDR-1922-DMF Lavatory shall be supplied with drain tailpiece, integral checkstops, flexible supply hoses, control valves, Class II 120/24 VAC plug-in transformers*. Operating supply water pressure range is 30-75 psi. Optional factory installed thermostatic mixing valve is available.

Vandal Resistance/Safety Features:

© Rev. 7/2023

The faucet, slow drain and escutcheon are non-removable and are designed to minimize ligature points. Valve, water supplies and waste connection are concealed within trap enclosure. All exposed fasteners shall be vandal-resistant security type screws.



To specify fixture and accessories, use the Model Number and Options page

Example: To specify a single station Ligature-resistant, Stainless Steel, Behavioral Healthcare Lavatory, Powder Coated White with ligature-resistant infrared faucet.

Use the following Willoughby Model Number:

ASWLDR-1922-DMF-LRFC-IR

ADA, TAS, UFAS, and ANSI Compliant:

When the lavatory is mounted at the standard adult rim height it is designed to comply with all applicable ADA, TAS, UFAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Mounting:

The lavatory may be surface-mounted as supplied or supported by in-wall plate carriers supplied by others. Proper backing and anchoring hardware for mounting of lavatory provided by others.

Optional Features:

* Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

**Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.

LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.



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1.) Base Model Number:

☐ ASWLDR-1922-DMF Stainless Steel, Ligature-resistant, Front Mounted, Behavioral Healthcare Lavatory, Powder Coated

White

2.) Faucet:

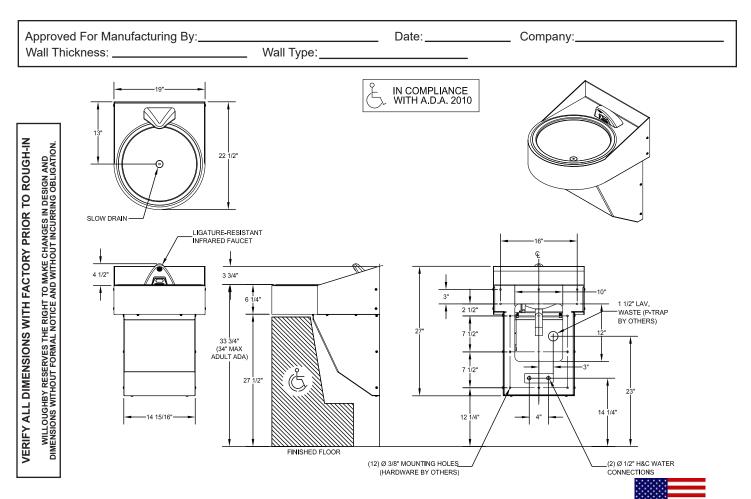
□ LRFC-IR
 □ LRFC-BO
 □ LRFC-PBH
 □ LRFC-PZPB
 □ LRFC-PZPB
 □ LRFC-PZPB
 □ LRFC-PZPB
 □ LIGATURE - Resistant Infrared Faucet, Battery Operated
 □ LIGHTURE - Resistant Faucet Push Button, Properties
 □ LIGHTURE - Resistant Faucet Push Button, Piezo Electronic*

3.) Options:

☐ SSB Stainless Steel Lavatory Basin (basin not powder coated)

□ LDC□ TMV□ Other□ Other□ Other

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)



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LRBHL-2320 Ligature-resistant **Solid Surface Behavioral Healthcare** Lavatory

PATENTED: D864,362





To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a single station Ligature-resistant, Solid Surface, Behavioral Healthcare Lavatory with dual temp. ligature-resistant pneumatic push buttons, in Sandstone color.

Use the following Willoughby Model Number:

LRBHL-2320-PBH2-SS

Recommended Specifications

Ligature-resistant, Solid Surface, Behavioral Healthcare Lavatory shall be: Willoughby Model No. LRBHL-2320

(Select from model number and options list on next page)

Wall-hung fixture shall accommodate one user and is designed to minimize ligature points. The lavatory bowl with integral sloped backsplash and sides is constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive***. Lavatory bowl shall be rectangular, 13" x 12" x 4" deep.

The pre-assembled lavatory sprayhead shall be machined of stainless steel and shall be controlled by a push button or infrared sensor. Lavatory sprayhead shall provide non-aerated water stream. Exposed stainless steel surfaces shall be polished to a #4 satin finish and shall be fully-rounded to minimize use as a ligature point. Push button shall be machined of stainless steel and shall be fully rounded to minimize use as a ligature point. Flow restrictor shall maintain flow rates at 0.5 GPM.

LRBHL-2320 Lavatory shall be supplied with drain tailpiece, integral checkstops, drain spuds, flexible supply hoses, control valves, Class II 120/24 VAC plug-in transformers*. Fixtures with factory valves shall be furnished with thermostatic mixing valve. Operating supply water pressure range is 30-75 psi.

Pedestal back plate shall be welded stainless steel constructed of heavy gauge, type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Vandal Resistance/Safety Features:

The sprayhead, push buttons, infrared sensor, drain and escutcheon are non-removable and are designed to minimize ligature points. Valve, water supplies and waste connection are concealed within trap enclosure. All exposed fasteners shall be vandal-resistant security type screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, UFAS, and ANSI Compliant:

When the lavatory is mounted at the standard adult rim height it is designed to comply with all applicable ADA, TAS, UFAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Mounting:

The lavatory may be surface-mounted as supplied or supported by in-wall carriers supplied by others. Surface-mounted bracket also includes a locking device and leveling screws. Proper backing for surface-mounted lavatory provided by others.

Optional Features:

* Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock. (Not required on pneumatic valves)

LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.



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1.) Base Model Number: ☐ LRBHL-2320 Ligature-resistant, Solid Surface Behavioral Healthcare Lavatory 2.) Valve Actuation: ☐ PBH1 Ligature-resistant Push Button for Single Temperature Pneumatic Metering ☐ PBH2 Ligature-resistant Push Buttons for Dual Temperature Pneumatic Metering ■ EPBH1 Ligature-resistant Electronic Push Button for Single Temperature Electronic (w/ Pneutronic Control)* ☐ EPBH2 Ligature-resistant Electronic Push Buttons for Dual Temperature Electronic (w/ Pneutronic Control)* ☐ IR Infrared Sensor, Plug-in* □ во Infrared Sensor, Battery Operated 3.) Solid Surface Lav. Deck Colors: ■ BN Bone ☐ GW Glacier White ☐ GG **Grey Granite** □ SS Sandstone ☐ WG White Granite ☐ BG Black Granite ■ NB Nocturnal Blue ☐ RC Red Coral

4	\sim	- 4:	
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- ☐ TL Less In-line Thermostatic Mixing Valve
- ☐ MT Wall Template
- ☐ AMT Antimicrobial Trap***☐ LSH 1.5 gpm Laminar Flow Sprayhead
- Other Other
 - *(Req. 110V power through ground fault interrupter (GFCI) receptacle)
 - ** Piezo Electronic Push Button valve actuation not available on LRBHL-2320
- ***Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.

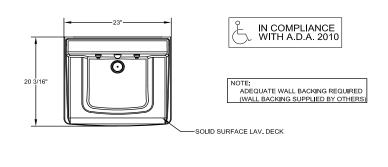
PATENTED: D864,362

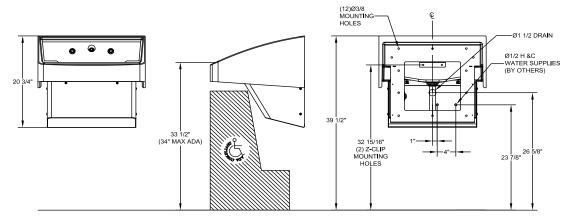
Approved For Manufacturing By:______ Date:_____ Company:_____
Wall Thickness: _____ Wall Type:_____

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☐ SG

Sea Green





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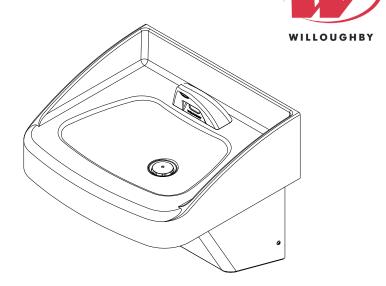


LRBHL-2220 Ligature-resistant **Solid Surface Behavioral Healthcare** Lavatory

(For Deck Mounted Faucet)

PATENTED: D956,187





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a single station Ligature-resistant, Solid Surface, Behavioral Healthcare Lavatory, with a Ligature-resistant Electronic Infrared Faucet, in Sandstone color

Use the following Willoughby Model Number:

LRBHL-2220-LRFC-IR-SS

Recommended Specifications

Ligature-resistant, Solid Surface, Behavioral Healthcare, Lavatory shall be: Willoughby Model No. LRBHL-2220 (Select from model number and options list on next page)

Wall-hung fixture shall accommodate one user and is designed to minimize ligature points. The lavatory deck bowl is constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive**. Lavatory shall be contoured to minimize its use as a ligature point.

LRBHL-2220 Lavatory shall be supplied with ligature-resistant drain, and tailpiece. Fixtures with optional LRFC faucet shall be furnished with integral checkstop, flexible supply hoses, control valve, and valve power supply if applicable. Optional in-line thermostatic mixing valve is avaliable. Operating supply water pressure range is 30-75 psi.

The LRFC lavatory faucet shall be fixed type, constructed of cast 304 stainless steel with a polished exterior finish. Lavatory faucet shall provide non-aerated laminar flow and shall be contoured to minimize use as a ligature point. Flow regulator shall maintain flow rates at 1.5 GPM. Pedestal back plate shall be welded stainless steel constructed of type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Vandal Resistance/Safety Features:

© Rev. 10/2023

The faucet and drain are non-removable and are designed to minimize ligature points. Valves, water supplies and waste connection are concealed within trap enclosure. All exposed fasteners shall be vandal-resistant security type screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, UFAS, and ANSI Compliant:

When the lavatory is mounted at the standard adult rim height it is designed to comply with all applicable ADA, TAS, UFAS, CBC, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Mounting:

The lavatory may be surface-mounted as supplied or supported by in-wall plate or arm carrier supplied by others. Proper backing and anchoring hardware for mounting of lavatory provided by others.

Optional Features:

Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

LIGATURE-RESISTANT DISCLAIMER

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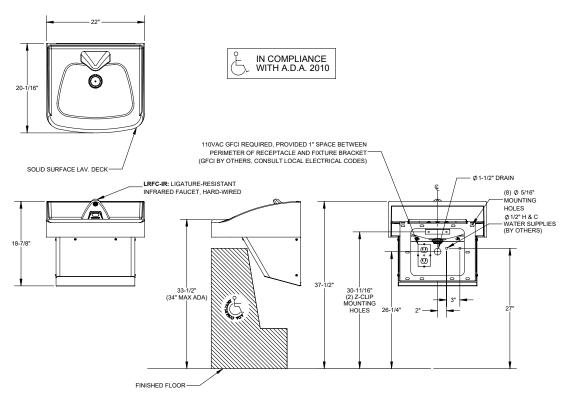
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5.) Options: 1.) Base Model Number: ☐ LRBHL-2220 ■ TMV Ligature-resistant, Solid Surface, Behavioral Healthcare, In-line Thermostatic Mixing Valve ☐ AMT Antimicrobial Trap** □ MC Mounting Carrier 2.) Faucet Type: □ Other ☐ LRFC-IR Ligature-Resistant Faucet Infrared Sensor, Plug-in* Other ☐ LRFC-BO Ligature-Resistant Faucet Infrared Sensor, Battery Operated □ LRFC-PBH Ligature-Resistant Faucet Push Button, Pneumatic *(Req. 110V power through ground fault interrupter (GFCI) receptacle) □ LRFC-PZPB Ligature-Resistant Faucet Push Button, Piezo Electronic* Less Faucet*** (Specify hole size and location) □ NV **Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not 3.) Hole Drilling Selection (Faucet by Others): protect users or others against bacteria, viruses, germs, or other NOTE: If hole drilling is required, please submit faucet for approval disease organisms. Always use good hygienic cleaning practices. 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:_ □ 8CC 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:_ ***NV selection may negate ligature-resistant properties if non approved ☐ 1CC Center Shank, (1) Ø1-1/4" Hole ligature-resistant faucet is used in lieu of Willoughby ligature-resistant ☐ SP Special Punching/Drilling (Specify hole punching dim.) 4.) Solid Surface Lav. Deck Colors: ■ BN Bone ☐ GW Glacier White ☐ GG **Grey Granite** ☐ SS Sandstone ☐ WG White Granite ☐ BG **Black Granite** ■ NB Nocturnal Blue ☐ RC Red Coral ☐ SG Sea Green

Approved For Manufacturing By:______ Date:_____ Company:______
Wall Thickness: ______ Wall Type:______

PATENTED: D956,187

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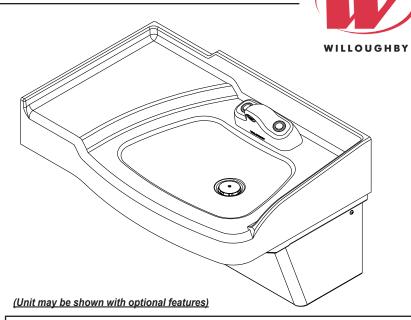
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LRBCL-2030 Ligature-resistant **Solid Surface Behavioral Healthcare Corner Lavatory**

PATENTED: D1,010,077





To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a single station Ligature-resistant, Solid Surface, Behavioral Healthcare Corner Lavatory, Right Hand Bowl, with a Ligature-resistant Faucet with Piezo Electronic Push Buttons, in Sandstone color

Use the following Willoughby Model Number:

LRBCL-2030-R-LRFC-PZPB-SS

Recommended Specifications

Ligature-resistant, Solid Surface, Behavioral Healthcare, Corner Lavatory shall be: Willoughby Model No. LRBCL-2030 (Select from model number and options list on next page)

Wall-hung fixture shall accommodate one user and is designed to minimize ligature points. The lavatory deck bowl is constructed of Aguasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, mineral fillers and antimicrobial additive**. Lavatory shall be contoured to minimize its use as a ligature point.

LRBCL-2030 Lavatory shall be supplied with ligature-resistant drain, and tailpiece. Fixtures with optional LRFC faucet shall be furnished with integral checkstop, flexible supply hoses, control valve, and valve power supply* if applicable. Optional in-line thermostatic mixing valve is avaliable. Operating supply water pressure range is 30-75 psi.

The LRFC lavatory faucet shall be fixed type, constructed of cast 304 stainless steel with a polished exterior finish. Lavatory faucet shall provide non-aerated laminar flow and shall be contoured to minimize use as a ligature point. Flow regulator shall maintain flow rates at 1.5 GPM. Pedestal back plate shall be welded stainless steel constructed of type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Vandal Resistance/Safety Features:

© Rev. 12/2023

The faucet and drain are non-removable and are designed to minimize ligature points. Valves, water supplies and waste connection are concealed within trap enclosure. All exposed fasteners shall be vandal-resistant security type screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, UFAS, and ANSI Compliant:

When the lavatory is mounted at the standard adult rim height it is designed to comply with all applicable ADA, TAS, UFAS, CBC, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Mounting:

The lavatory may be surface-mounted as supplied or supported by in-wall plate carrier supplied by others. Proper backing and anchoring hardware for mounting of lavatory provided by others.

Optional Features:

* Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

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B29-13

1.) Base	e Model Nun	nber:	5.) Solid S	Surface Lav. Deck Colors:
□ LRB	CL -2030	Ligature-resistant, Solid Surface, Behavioral Healthcare,	stant, Solid Surface, Behavioral Healthcare, 🔲 BN Bone	
		Corner Lavatory	GW	Glacier White
			☐ GG	Grey Granite
2.) Lava	atory Orienta	ation:	□ SS	Sandstone
☐ R	Right Ha	nd Bowl	WG	White Granite
L	Left Hand	d Bowl	☐ BG	Black Granite
3.) Fauc	cet Type:		6.) Optior	ns:
☐ LRF	C-PBH	Ligature-Resistant Faucet Push Button, Pneumatic	■ TMV	In-line Thermostatic Mixing Valve
☐ LRF	C-PZPB	Ligature-Resistant Faucet Push Button, Piezo Electronic*	■ AMT	Antimicrobial Trap**
☐ LRF	C-IR	Ligature-Resistant Faucet Infrared Sensor, Plug-in*	□ MC	Mounting Carrier
LRF	С-ВО	Ligature-Resistant Faucet Infrared Sensor, Battery Operated	Other	
☐ NV		Less Faucet*** (Specify hole size and location)	Other	
4.) Hole	Drilling Sel	ection (Faucet by Others):	*(Req. 1	10V power through ground fault interrupter (GFCI) receptacle)
NOT	ΓE: If hole di	rilling is required, please submit faucet for approval		
☐ 4CC	4" Cent	terset, Ø1-1/4" Holes (Specify 2 or 3 holes:)	**Antimi	crobial properties are built-in to inhibit the growth of bacteria
☐ 8CC	8" Cent	terset, Ø1-1/4" Holes (Specify 2 or 3 holes:)	that m	ay affect this product. The antimicrobial properties do not
☐ 1CC		Shank, (1) Ø1-1/4" Hole	protec	t users or others against bacteria, viruses, germs, or other
SP		Punching/Drilling (Specify hole punching dim.)	diseas	se organisms. Always use good hygienic cleaning practices.
_	•			
			appro	election may negate ligature-resistant properties if non oved ligature-resistant faucet is used in lieu of Willoughby are-resistant faucet.

PATENTED: D1,010,077

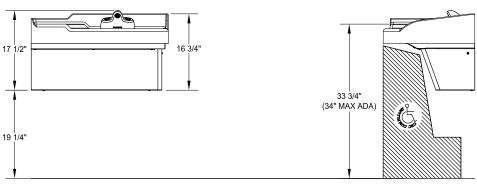
Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		

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20"	0
	30"-



RIGHT HAND SHOWN LEFT HAND SYMMETRICALLY OPPOSITE

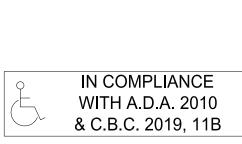


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WBDF-1519-HC
Stainless Steel
Ligature-resistant
Rear Mounted
Behavioral
Drinking Fountain



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant Rear Mounted Stainless Steel Behavioral Drinking Fountain with ligature-resistant bubbler, single temp. non-metering pneumatic valve, ligature-resistant pneumatic push button, and elbow waste

Use the following Willoughby Model Number: WBDF-1519-HC-DMBH-PSL1-PBH-EB

Recommended Specifications

Stainless Steel, Ligature-resistant, Rear Mounted, Behavioral Drinking Fountain shall be:

Willoughby Model No. WBDF-1519-HC

(Select from model number and options list on next page)

Wall-hung angular profile fixture shall accommodate one user and is designed to minimize ligature points. Fixture shall be fabricated from 14GA./16GA. Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard drinking fountain shall include:

- Oval-shaped basin, 13" x 9-1/2" x 1-1/2" deep
- Stainless steel ligature-resistant bubbler
- Slow drain with air vent
- Elbow waste (1-1/2" Plain End)
- Angular profile with sloped top

Vandal Resistance/Safety Features:

The bubbler, push buttons, and slow drain are non-removable from the user-side and are designed to minimize ligature points. Supply and waste connections are concealed within the lavatory cabinet, with valves and water supplies remotely located in the mechanical chase. The drinking fountain is rearaccess and does not have any exposed fasteners.

ADA, ANSI, and CBC Compliant:

When the drinking fountain is mounted at the standard adult rim height for fountains, it is designed to comply with all applicable ADA, ANSI (Z124.3 and Z124.6), and CBC (2019, Ch. 11B) accessibility guidelines.

Mounting:

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance; proper backing for lavatory mounting provided by others.

LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.



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© Rev. 7/2022 B30-1

1.	Base	Model	Number
•••	, Dusc	mouci	Humber

■ WBDF-1519-HC

6.) Other Options: Stainless Steel, Ligature-resistant, Rear Mounted, \(\square\) MT

Behavioral Drinking Fountain

Wall Template ■ WS

Wall Sleeve (Requires Accessible Chase)

2.) Bubbler Selection:

DMBH

Ligature-resistant Deck Mounted Bubbler (Standard)

Other: Other:

DC Decorator Color (White)

3.) Valve Selection:

PSL1

Single Temp. Pneumatic Non-metering (Standard)

4.) Push Button Selection:

PBH

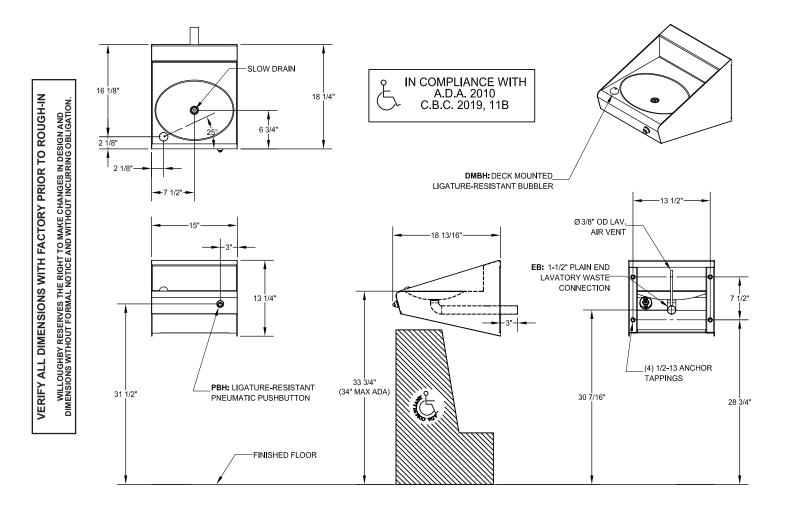
Ligature-resistant Pneumatic Push Button (Standard)

5.) Drinking Fountain Waste:

Elbow Waste (Standard) ☐ EB ☐ SLOW Slow Drain (Standard)

☐ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube ☐ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		



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WBDF-1519-HC-FA Stainless Steel Ligature-resistant **Front Mounted Behavioral Drinking Fountain**

PATENT PENDING



IN COMPLIANCE WITH A.D.A. 2010 & C.B.C. 2019, 11B

Recommended Specifications

Stainless Steel, Ligature-resistant, Front Mounted, Behavioral Drinking Fountain shall be:

Willoughby Model No. WBDF-1519-HC-FA

(Select from model number and options list on next page)

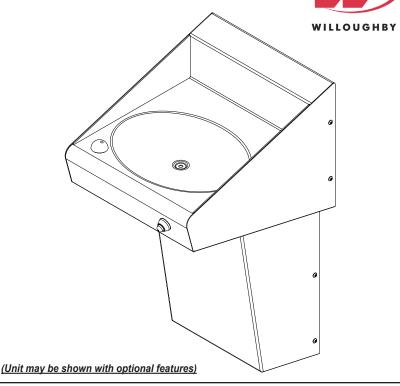
Wall-hung angular profile fixture shall accommodate one user and is designed to minimize ligature points. Fixture shall be fabricated from 14GA./16GA. Type 304 stainless steel. The construction shall consist of an all-welded lavatory cabinet and all-welded trap enclosure, with exposed stainless surfaces polished to a #4 satin finish.

Standard drinking fountain shall include:

- Oval-shaped basin, 13" x 9-1/2" x 1-1/2" deep
- Stainless steel ligature-resistant bubbler
- Slow drain w/ air vent
- Removable P-trap (1-1/2" F.I.P.)
- Angular profile with sloped top
- Removable trap enclosure attached with security screws

Vandal Resistance/Safety Features:

The bubbler, push buttons, and slow drain are non-removable from the user-side and are designed to minimize ligature points. Valve, water supplies, and waste connection are concealed within the trap enclosure. All exposed fasteners shall be vandal-resistant security type screws.



To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant Front Access Stainless Steel Behavioral Drinking Fountain with ligature-resistant bubbler, single temp. non-metering pneumatic valve, ligature-resistant pneumatic push button, and removable P-trap waste

Use the following Willoughby Model Number: WBDF-1519-HC-FA-DMBH-PSL1-PBH-RPT

ADA, ANSI, and CBC Compliant:

When the drinking fountain is mounted at the standard adult rim height for fountains, it is designed to comply with all applicable ADA, ANSI (Z124.3 and Z124.6), and CBC (2019, Ch. 11B) accessibility guidelines.

Mounting:

Anchoring shall be from the front with mounting plate with anchoring holes. Unit does not require chase area for installation and maintenance; proper backing and anchoring hardware for drinking fountain mounting provided by others.

LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.



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1.) Base Model Number:

☐ WBDF-1519-HC-FA

Stainless Steel, Ligature-resistant, Front Mounted,

Behavioral Drinking Fountain

2.) Bubbler Selection:

☐ DMBH Ligature-resistant Deck Mounted Bubbler (Standard)

3.) Valve Selection:

☐ PSL1 Single Temp. Pneumatic Non-metering (Standard)

4.) Push Button Selection:

☐ PBH Ligature-resistant Pneumatic Push Button (Standard)

5.) Drinking Fountain Waste:

☐ RPT Removable P-trap (Standard)
☐ SLOW Slow Drain (Standard)

6.) Other Options:

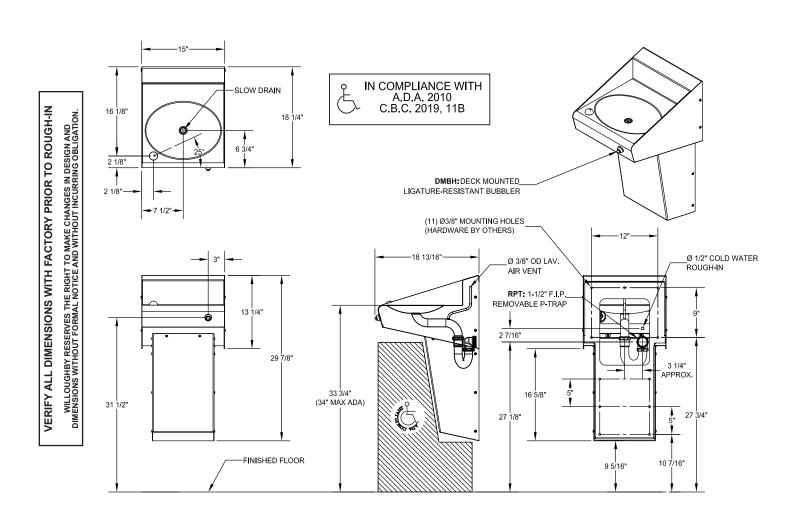
■ MT Wall Template

DC Decorator Color (White)
Other:

■ Other:

PATENT PENDING

Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____

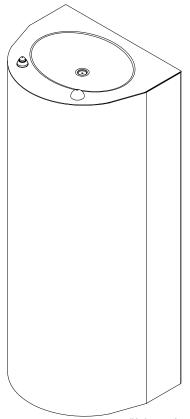








ASDF-1013-06
Stainless Steel
Ligature-resistant
Rear Mounted
18" Wide
Drinking Fountain





Recommended Specifications

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant, Wall Mounted, 18" Wide Drinking Fountain with standard ligature-resistant drinking fountain bubbler, non-metering pneumatic valve and ligature-resistant push button, standard elbow waste (with thru-wall extension, 'p'-trap, and clean-out), and wall sleeve

Use the following Willoughby Model Number: ASDF-1013-06-DMBH-PSL1-PBH-EB-LW1-WS

Stainless Steel, Ligature-resistant, Rear Mounted, 18" Wide Drinking Fountain shall be:

Willoughby Model No. ASDF-1013-06

(select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all-welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Oval-shaped basin, 13" x 9-1/2" x 1-1/2" deep
- Integral slow drain with air vent
- (DMBH) deck-mounted ligature-resistant stainless steel drinking fountain bubbler
- (PSL1) Single temperature, non-metering pneumatic valve
 w/ (PBH) ligature-resistant pneumatic push button
- (EB) Elbow Waste (1-1/2" Plain End)

Cabinet interior shall be sound deadened with fire-resistant material.

Mounting:

Anchoring shall be by standard 4-point system: Ø1/2" threaded rods, nuts, and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

Unit shall require chase area for installation and maintenance.

Vandal Resistance:

All push buttons and escutcheons are secured to the unit from within the fixture. Valves, water supplies and waste connections are concealed within.

LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.



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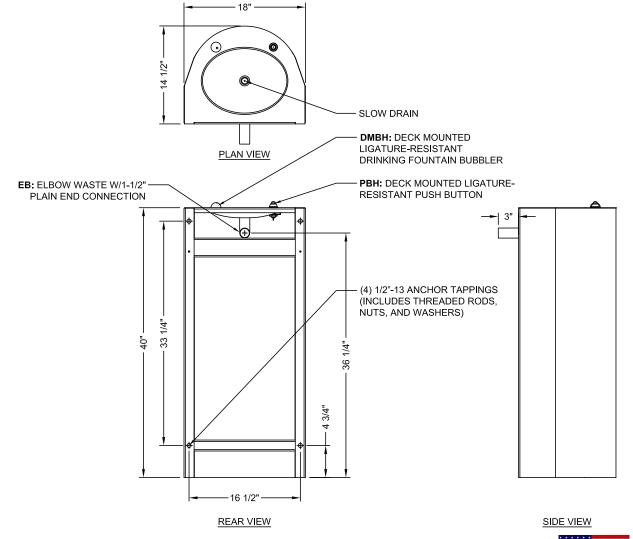
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© Rev. 11/2022 B30-5

1.) Drinkii	ng Fountain Mo	del:	5.) Drinkin	g Fountain Waste:
ASDF-	1013-06	Stainless Steel, Ligature-resistant,	☐ EB	Elbow Waste (1-1/2" Plain End) (Standard)
		Rear Mounted, 18" Wide Drinking Fountain	PT	Integral 'P'-Trap
			□ SLOW	Slow Drain (Standard)
2.) Bubble	er Selection:		□ LWE	Lavatory Waste Extension (Specify if more than 3"
DMBH	Deck Mounted	d Ligature-resistant Bubbler (Standard)	□ LW1	Thru-Wall Extension, 'P'-Trap, and Clean-Out
			LW2	Thru-Wall Extension and Clean-Out
3.) Valve \$	Selection:		☐ LWC1	Coupling, 1-1/2" Tube to 1-1/2" Tube
☐ PSL1	Single Temp.	Pneumatic Non-metering (Standard)	LWC2	Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron
4.) Push E	Button Selection	n:	6.) Other C	Options:
□ PBH	Ligature-resis	tant Pneumatic Push Button (Standard)	□ MT	Wall Template
			■ WS	Wall Sleeve (Requires Accessible Chase)
			□ DC	Decorator Color (White)
			Other:	
			☐ Other:	

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:	<u> </u>	



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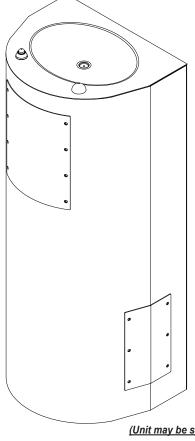


B30-6

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ASDF-1013-06-FA Stainless Steel Ligature-resistant Front Mounted 18" Wide Drinking Fountain





(Unit may be shown with optional features)

Recommended Specifications

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant, Front Access, 18" Wide Drinking Fountain with standard ligature-resistant drinking fountain bubbler, single temp pneumatic non-metering valve, standard ligature-resistant pneumatic push button, standard removable p-trap, and metal wall template

Use the following Willoughby Model Number: ASDF-1013-06-FA-DMBH-PSL1-PBH-RPT-MT

Stainless Steel, Ligature-resistant, Front Mounted, 18" Wide Drinking Fountain shall be:

Willoughby Model No. **ASDF-1013-06-FA**

(select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all-welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Oval-shaped basin, 13" x 9-1/2" x 1-1/2" deep
- Integral slow drain with air vent
- (DMBH) deck-mounted ligature-resistant stainless steel drinking fountain bubbler
- (PSL1) Single temperature, non-metering pneumatic valve w/ (PBH) ligature-resistant pneumatic push button
- (RPT) slip joint, cast brass union 'p'-trap (1-1/2")
- (3) removable cabinet-mounted access panels attached w/ vandal resistant screws

Cabinet interior shall be sound deadened with fire-resistant material.

Mounting:

Anchoring shall be from the front with anchoring holes provided. Anchoring hardware by others.

Unit requires no chase area for installation and maintenance.

Vandal Resistance:

All push buttons and escutcheons are secured to the unit from within the fixture. Valves, water supplies and waste connections are concealed within. Access panels are removable and secured with vandal resistant security screws.

LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.



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1.) Drinking Fountain Model:

☐ ASDF-1013-06-FA

Stainless Steel, Ligature-resistant, Front Mounted, 18" Wide Drinking Fountain

2.) Bubbler Selection:

☐ DMBH Deck Mounted Ligature-resistant Bubbler (Standard)

3.) Valve Selection:

☐ PSL1 Single Temp. Pneumatic Non-metering (Standard)

4.) Push Button Selection:

☐ PBH Ligature-resistant Pneumatic Push Button (Standard)

51	Drinking	Fountain	Wasto.

RPT Slip Joint, Cast Brass Union 'P'-trap (Removable, 1-1/2")

(Standard)

☐ SLOW Slow Drain (Standard)

6.) Other Options:

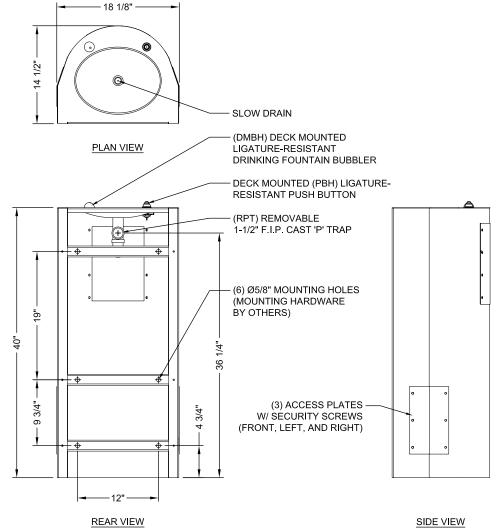
□ DC Decorator Color (White)

Other:

Other:

Approved For Manufacturing By:		Date:	Company:	
Wall Thickness:	Wall Type:		_ , ,	

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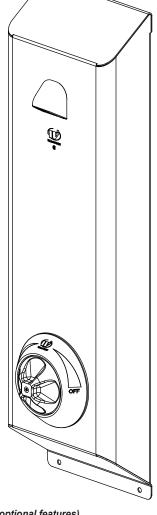


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WBS Series Ligature-resistant **Surface Mounted Behavioral Wall Shower**



Recommended Specifications

Ligature-resistant Surface Mounted Behavioral Wall Shower shall be: Willoughby Model No. WBS (Select from Model & Options list on next page)

Shower cabinet shall be fabricated from 16 gauge, Type 304 stainless steel, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Shower valves and appropriate controls (from Valve Selection options)
- (LRSH) Ligature-resistant shower head, WaterSense Labeled 2.0 GPM flow rate
- Ligature-resistant cabinet with sloped top and bottom
- Z-clip mounting bracket

Anchoring shall be by Z-clip and bottom flange with anchoring hardware by others. Shower unit shall be factory assembled, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.

Optional WaterSense Labeled ligature-resistant shower head available (LRSH).

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page. Example: To specify a Ligature-resistant Surface Mounted Behavioral Wall Shower with Ligature-resistant Temp/Pressure-Balancing Mixing Valve, and LRSH Ligature-resistant Shower Head

Use the following Willoughby Model Number:
WBS-TPLR-LRSH



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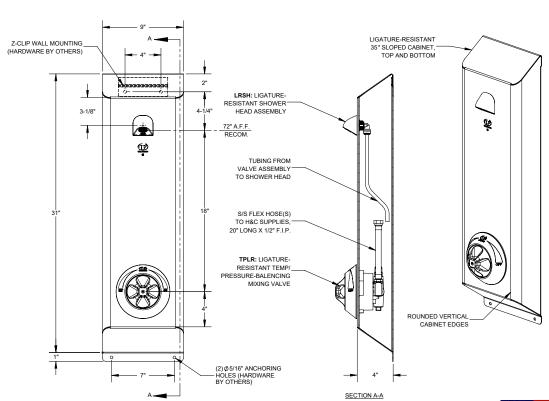


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1.) Base Model Number:				6.) Shower	Head and Flow Rate Option:
■ WBS	Ligature-resistant	Surface Mounted		LRSH	Ligature-resistant Shower Head, WaterSense Labeled Insert
	Behavioral Wall Sl	nower			(1.5 GPM & 2.0 GPM Flow Rate only) (Standard)
				□ CSH	Ligature-resistant Shower Head
2.) Valve S	Selection:				
■ NV	No Valve			7.) Other C	Options:
PML1	Single Temp. Pneumatic Me	tering		☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC*
☐ PML2	Dual Temp. Pneumatic Mete	ring		☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*
E1L1	Single Temp. Electronic (Pic	k Control)*		■ TMV	Inline Thermostatic Mixing Valve
■ E1L2	Dual Temp. Electronic (Pick	Control)*		□ RD	Recessed Mounted Soap Dish (Cabinet Mounted)
TPLR	Ligature-resistant Temp/Pres	ssure-balancing Mixing	y Valve	RSD2	Recessed Soap Dish (In-Wall Mounted)
				□ PS	Pipe Shroud (Wall Mounted, Specify Length):
3.) Push Button Selection:			(Pipe Shroud option changes Sloped Top to Flat Top)		
Pneumatic or Electronic Valves Only:		Other			
☐ PBH Ligature-resistant Pneumatic Push Buttons		Other			
PZPB	Ligature-resistant Piezo Elec	tronic Push Buttons*			
				*(Req. 110	OVAC power through ground fault interrupter (GFCI) receptacle / breaker
4.) Flow R	ates:				
☐ 2.5 GP	M ☐ 2.0 GPM	■ 1.5 GPM		LIGATUR	E-RESISTANT DISCLAIMER
				This produ	uct is designed to minimize ligature points. While every effort has
5.) Electro	onic Control* (Must Use Elec	ronic Push Button):		been mad	e to reduce the possibility of ligature points, this product does
☐ WUSC	-2200 WUSC-2400	Pneutronic	■ WMS II	not elimina	ate all risks. Ligature-Resistant products by Willoughby Industries
				are to be ι	used in conjunction with, not as a replacement for, trained
				profession	nals.
				ļ	

Approved For Manufacturing By:______ Date:_____ Company:_____
Wall Thickness: _____ Wall Type:_____

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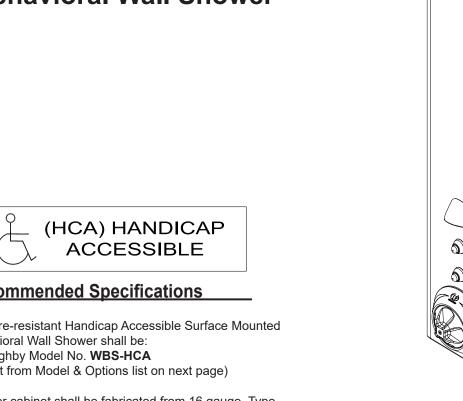
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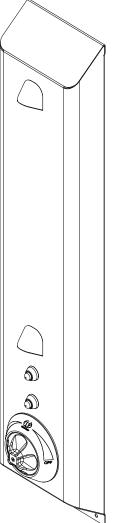
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WBS-HCA Series Ligature-resistant **Handicap Accessible Surface Mounted Behavioral Wall Shower**





Recommended Specifications

Ligature-resistant Handicap Accessible Surface Mounted Behavioral Wall Shower shall be: Willoughby Model No. WBS-HCA (Select from Model & Options list on next page)

Shower cabinet shall be fabricated from 16 gauge, Type 304 stainless steel, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Shower valves and appropriate controls (from Valve Selection options)
- (2) (LRSH) Ligature-resistant shower heads, WaterSense Labeled 2.0 GPM flow rate
- Ligature-resistant sloped cabinet top and bottom
- Z-clip mounting bracket

Anchoring shall be by Z-clip and bottom flange with anchoring hardware by others. Shower unit shall be factory assembled, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page. Example: To specify a Ligature-resistant Handicap Accessible Surface Mounted Behavioral Wall Shower with Ligature-resistant Temp/Pressure-Balancing Mixing Valve with PML1-MA2 Manifold Diverter Valve Option and Ligature-resistant Push Buttons, and LRSH Ligature-resistant Shower Heads w/(2) Fixed Shower Heads

Use the following Willoughby Model Number: WBS-HCA-TPLR-PML1-MA2-PBH-LRSH-2HD

Handicap Accessible:

The WBS-HCA Behavioral Wall Shower will conform to most. but not all, ADA requirements.

(Compliance shall be subject to the requirements of the local code authority based on installation-specific details and is the responsibility of the installer.)



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MODEL	NIIM	RFR		OPI	LIONS
		$\mathbf{D}\mathbf{F}$	$\Delta IVIII$		

1.) Base Mo	odel Number:	5.) Flow Ra	tes:			
☐ WBS-HC	CA Ligature-resistant Handicap Accessible Surface Mounted Behavioral Wall Shower	☐ 2.5 GPN	1	☐ 2.0 GPM	☐ 1.5 GPM	
		6.) Electroi	nic Conti	rol* (Must Use Electro	nic Push Button):	
2.) Valve Se		☐ WUSC-2	2200	■ WUSC-2400	Pneutronic	☐ WMS II
■ NV	No Valve					
PML1	Single Temp. Pneumatic Metering	7.) Shower	Head ar	nd Flow Rate Option:		
PML2	Dual Temp. Pneumatic Metering	LRSH	Dual F	ixed Ligature-resistant	Shower Head, WaterSe	nse Labeled Insert
■ E1L1	Single Temp. Electronic (Pick Control)*		(1.5 G	PM & 2.0 GPM Flow Ra	ate only) (Standard)	
■ E1L2	Dual Temp. Electronic (Pick Control)*	CSH	Dual F	ixed Ligature-resistant	Shower Heads	
■ TPLR	Ligature-resistant Temp/Pressure-balancing Mixing Valve	LRFX	Ligatu	re-resistant Quick Disco	onnect Hand Held Show	er
	(TPLR) not available with (DVLR) diverter valve on	2HD	Dual F	ixed Shower Heads (St	tandard)	
	WBS-HCA, See: WBS-HCA-WH shower instead)					
☐ MA2	Valve Manifold Option (Pneumatic or Electronic Valves Only):	8.) Other O	ptions:			
	(See the Manifold Option Page at the end of	☐ TF24H	Hard-w	rired Transformer, 110V	AC to 24VAC*	
	Catalog Section C14 for further information)	☐ TF24P	Plug-in	Transformer, 110VAC t	to 24VAC*	
,		☐ TMV Inline Thermostatic Mixing Valve				
3.) Diverter Valve Option:		RD	Recess	sed Mounted Soap Dish	1**	
DVLR	Ligature-resistant Diverter Valve	RSD2	Recess	sed Soap Dish (In-Wall	Mounted)	
	(DVLR) not available with (TPLR) mixing valve on	☐ PS		hroud (Specify Length):		
	WBS-HCA, See: WBS-HCA-WH shower instead)		(Pipe S	Shroud option changes	Sloped Top to Flat Top)	
☐ PML1-M	IA2 Two Single Temp. Pneumatic Metering Valves	Other				
	(Used to divert water flow to either upper, lower, or both					
	shower heads; for use with (TPLR) valve only)	*(Req. 110	VAC pov	ver through ground faul	t interrupter (GFCI) rece	eptacle / breaker)
☐ E1L1-M	A2 Two Single Temp. Electronic Metering Valves	, ,	•		, , ,	,
_	(Used to divert water flow to either upper, lower, or both	**(Cabinet	-mounted	d Recessed Soap Dish	(RD) is not available wit	h (TPLR) Mixing
	shower heads; for use with (TPLR) valve only)	,			See: WBS-HCA-WH W	, ,
				, ,	p Dish (RSD2) is an av	
4.) Push Bu	utton Selection: Pneumatic or Electronic Valves Only:				1 ()	1 /
☐ PBH	Ligature-resistant Pneumatic Push Buttons	LIGATURI	E-RESIS	STANT DISCLAIMER	1	
☐ PZPB	Ligature-resistant Piezo Electronic Push Buttons*	This produ	ct is des	sianed to minimize lia	gature points. While e	verv effort has beer
_	ű				e points, this product	
					Willoughby Industrie	
			_		for, trained profession	
		,	,	'	, '	
	ed For Manufacturing By:	Date:			pany:	

Wall Type:

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Wall Thickness:

LIGATURE-RESISTANT Z-CLIP WALL MOUNTING (HARDWARE BY OTHERS) CABINET W/ 35* SLOPED TOP AND BOTTOM (2) LRSH: LIGATURE-RESISTANT SHOWER 2-5/16" TUBING FROM VALVE ASSEMBLY TO SHOWER HEADS PML1-MA2: SINGLE-TEMP PNEU. VALVE ASSEMBLY, FOR DIVERTING WATER BETWEEN SHOWER HEADS (WATER SUPPLIED FROM TPLR TEMP. MIXING VALVE S/S FLEX HOSE(S) TO H&C SUPPLIES, 20" LONG X 1/2" F.I.P. **a** 2-3/4" (2) PBH: LIGATURE-RESISTANT PUSH: BUTTONS, PNEU. 2-3/4" TPLR: LIGATURE-4-1/2 RESISTANT TEMP/ PRESSURE-BALENCING 3-1/2" ROUNDED VERTICAL (2) Ø5/16" ANCHORING - HOLES (HARDWARE BY OTHERS) SECTION A-A

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WBS-HCA-WH Series
Ligature-resistant
Wide Housing
Handicap Accessible
Surface Mounted
Behavioral Wall Shower



Recommended Specifications

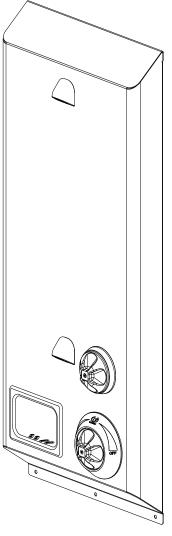
Ligature-resistant Wide Housing Handicap Accessible Surface Mounted Behavioral Wall Shower shall be: Willoughby Model No. **WBS-HCA-WH** (Select from Model & Options list on next page)

Shower cabinet shall be fabricated from 16 gauge, Type 304 stainless steel, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Shower valves and appropriate controls (from Valve Selection options)
- (2) (LRSH) Ligature-resistant shower heads, WaterSense Labeled 2.0 GPM flow rate
- Ligature-resistant sloped cabinet top and bottom
- Z-clip mounting bracket

Anchoring shall be by Z-clip and bottom flange with anchoring hardware by others. Shower unit shall be factory assembled, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.



RIGHT HAND CONTROL FIXTURE SHOWN (Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page

Example: To specify a Ligature-resistant Wide Housing Handicap Accessible Surface Mounted Behavioral Wall Shower with Right Hand Controls, Ligature-resistant Temp/Pressure-Balancing Mixing Valve, Ligature-resistant Diverter Valve, LRSH Ligature-resistant Shower Heads, and Recessed Soap Dish

Use the following Willoughby Model Number: WBS-HCA-WH-R-TPLR-DVLR-LRSH-2HD-RD

Handicap Accessible:

The WBS-HCA-WH Behavioral Wall Shower will conform to most, but not all, ADA requirements.

(Compliance shall be subject to the requirements of the local code authority based on installation-specific details and is the responsibility of the installer.)



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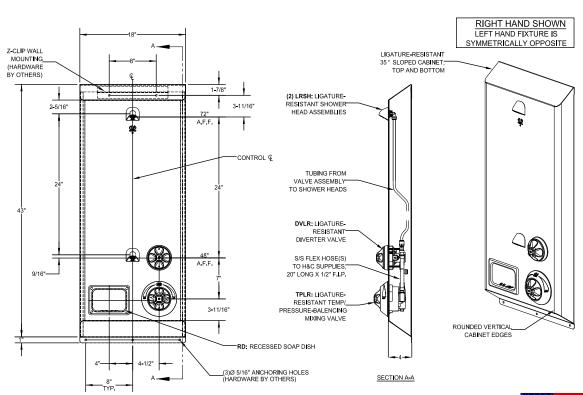


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MODEL NUMBER AND OPTIONS:

,	Model Nur		6.) Flow Rate	es:				
☐ WBS-HCA-WH		Ligature-resistant Wide Housing Handicap Accessible Surface Mounted Behavioral	☐ 2.5 GPM	☐ 2.0 GPM	☐ 1.5 GPM			
		Wall Shower	•	Control* (Must Use Electi	ronic Push Button):			
			☐ WUSC-22	00	Pneutronic	■ WMS II		
•		on (Must Specify):						
□ L		d Controls	•	ead and Flow Rate Option				
☐ R	Right Ha	nd Controls	☐ LRSH	•	-resistant Shower Hea .0 GPM Flow Rate only			
3.) Valve	Selection:	:	CSH	Dual Fixed Ligature	e-resistant Shower He	eads		
■ NV	No Valv	re	LRFX	Ligature-resistant C	Quick Disconnect Han	nd Held Shower		
☐ PML1	Single 1	Temp. Pneumatic Metering	☐ 2HD	Dual Fixed Shower I	Heads (Standard)			
☐ PML2	Dual Te	mp. Pneumatic Metering						
□ E1L1	Single 1	Гетр. Electronic (Pick Control)*		9.) Other Options:				
☐ E1L2	Dual Te	mp. Electronic (Pick Control)*	_	lard-wired Transformer, 110\				
TPLR	Ligature	e-resistant Temperature/Pressure-Balancing Mixing Valve	_	Plug-in Transformer, 110VAC				
☐ MA2		Manifold Option (Pneumatic or Electronic Valves Only):	_	nline Thermostatic Mixing Va				
	•	the Manifold Option Page at the end of	_	Recessed Mounted Soap Dis	,			
Catalog Section C14 for further information)								
				ipe Shroud (Wall Mounted,				
•	erter Valve:		, i	d option changes Sloped Top	to Flat Top)			
DVLR		Ligature-resistant Diverter Valve	Other _					
☐ PML1	-MA2	Two Single Temp. Pneumatic Metering Valves	Other					
		(Used to divert water flow to either upper, lower, or both						
		shower heads; for use with (TPLR) valve only)	*(Req. 110V/	AC power through ground fa	ult interrupter (GFCI)	receptacle / breaker)		
☐ E1L1-	-MA2	Two Single Temp. Electronic Metering Valves			_			
		(Used to divert water flow to either upper, lower, or both		RESISTANT DISCLAIME				
		shower heads; for use with (TPLR) valve only)		is designed to minimize I				
				to reduce the possibility of	•	•		
,	Button Se	•		all risks. Ligature-Resist	, ,	0 ,		
☐ PBH	0	e-resistant Pneumatic Push Buttons		ed in conjunction with, no	t as a replacement	for, trained		
☐ PZPB	ligature	e-resistant Piezo Electronic Push Buttons*	professional	S.				
Appro	ved For I	Manufacturing By:	Date:	Compa	any:			
		s: Wall Type:		<u> </u>	-			
1								

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MADE IN THE U.S.A.



WBS-ADA-WH Series Wide Housing ADA-Compliant Surface Mounted Wall Shower



Recommended Specifications

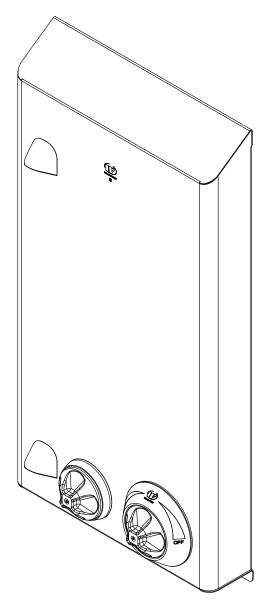
Wide Housing, ADA-Compliant, Surface Mounted Wall Shower shall be: Willoughby Model No. **WBS-ADA-WH** (Select from model number and options list on next page)

Shower cabinet shall be fabricated from 16 gauge, Type 304 stainless steel, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Shower valves and appropriate controls (from Valve Selection options)
- (2) (LRSH) Ligature-resistant shower heads, WaterSense Labeled 2.0 GPM flow rate
- Ligature-resistant sloped cabinet top and bottom
- Z-clip mounting bracket

Anchoring shall be by Z-clip and bottom flange with anchoring hardware by others. Shower unit shall be factory assembled, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.



RIGHT HAND CONTROL FIXTURE SHOWN (Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Wide Housing, ADA-Compliant, Surface Mounted Wall Shower with Right Hand controls, pressure-balancing valve, diverter valve, 1.5 GPM flow rate, APS and FX shower heads, and surface mounted soap dish

Use the following Willoughby Model Number: WBS-ADA-WH-R-TPLR-DVLR-LRSH-2HD



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MODEL NUMBER AND OPTIONS: 1.) Base Model Number: 6.) Flow Rates: ☐ 2.5 GPM 2.0 GPM ■ WBS-ADA-WH Ligature-resistant Wide Housing □ 1.5 GPM ADA-Complaint Surface Mounted Behavioral 7.) Electronic Control* (Must Use Electronic Push Button): ■ WUSC-2200 ☐ WUSC-2400 Pneutronic 2.) Panel Orientation (Must Specify): 8.) Shower Head Selection: Left Hand Controls Ligature-resistant Shower Head, WaterSense Labeled Insert □ LRSH ☐ R Right Hand Controls (1.5 GPM & 2.0 GPM Flow Rate only) (Standard) ☐ CSH Ligature-resistant Shower Head 3.) Valve Selection: □ LRFX Ligature-resistant Quick Disconnect Hand Held Shower ■ NV No Valve ☐ 2HD Dual Fixed Shower Heads (Standard) PML1 Single Temp. Pneumatic Metering ☐ PML2 Dual Temp. Pneumatic Metering 9.) Other Options: □ E1L1 Single Temp. Electronic (Pick Control)* ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard) Dual Temp. Electronic (Pick Control)* ■ E1L2 Ligature-resistant Temperature/Pressure-Balancing Mixing Valve ☐ TF24P Plug-in Transformer, 110VAC to 24VAC* ☐ TPLR ☐ TMV Inline Thermostatic Mixing Valve ■ MA2 Valve Manifold Option (Pneumatic or Electronic Valves Only): ☐ RD Recessed Mounted Soap Dish (Option increases the cabinet width 7" to (See the Manifold Option Page at the end of accommodate the soap dish while maintaining ADA compliance) Catalog Section C14 for further information) PS Pipe Shroud (Specify Length): (Pipe Shroud option changes Sloped Top to Flat Top) 4.) Diverter Valve: Other ■ DVLR Ligature-resistant Diverter Valve ☐ PML1-MA2 Two Single Temp. Pneumatic Metering Valves *(Req. 110V power through ground fault interrupter (GFCI) receptacle / breaker) (Used to divert water flow to either upper, lower, or both shower heads; for use with Mixing Valve options above) LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.

Approved For Manufacturing By:	Wall Type:	Date:	Company:	
	IN COMP WITH A.D	LIANCE .A. 2010	RIGHT HAND CONTROL FIXTURE SHOWN (LEFT HAND FIXTURE IS SYMMETRICALLY OPPOSITE)	

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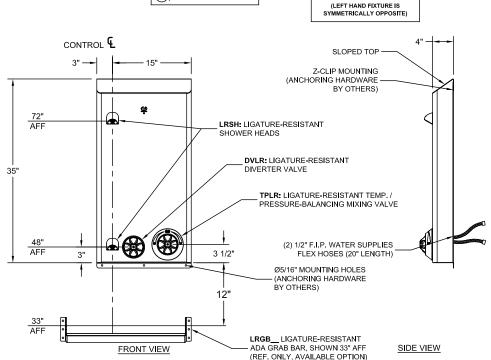
5.) Push Button Selection:

□ PZPB

Pneumatic or Electronic Valves Only:

Ligature-resistant Pneumatic Push Buttons

Ligature-resistant Piezo Electronic Push Buttons*



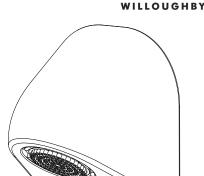
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LRSH Ligature-resistant High Efficiency Shower Head



Recommended Specifications

Willoughby model LRSH Ligature-resistant, High Efficiency Shower Head shall be fixed type, with chrome-plated, die-cast construction. The vandal resistant shower head shall be rear mounted with no visible fasteners. The shower head shall have a 30° angle of spray, with 1.5 GPM flow rate insert standard. Optional 2.0 GPM flow rate insert available. Both the 1.5 GPM & 2.0 GPM Shower heads utilize a WaterSense Labeled insert that provide a steady and regulated flow. Optional swivel angle head allows for both vertical and horizontal user adjustment of the shower stream up to 14 degrees. The inlet connection shall be threaded for 3/8" F.I.P.

The LRSH features a concealed vandal resistant WaterSense labeled removable insert, the insert can be removed and installed with a specifically designed key tool. The insert provides a non-aerated (laminar flow) soft water stream w/ smart lime cleaning technology. The LRSH has a rounded and tapered design to minimize any potential ligature points, and shall meet the requirements of cNSF®us ASME A112.18.1 / CSA B125.1 U.P. Code and WaterSense Specification for Spray head inserts.

Flow Rate

1.5 GPM Flow Rate (WaterSense Labeled Insert) (Standard)

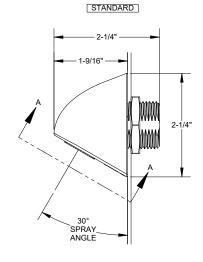
■ 2.0 GPM Flow Rate (WaterSense Labeled Insert)

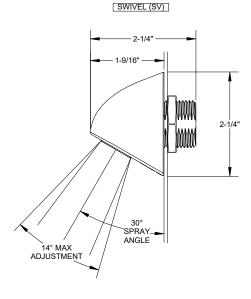
Options:

■ SV 14 Degree swivel angle head

☐ FA LRSH With Stainless Steel Front Mounted Plate (For Non Fixture Applications)







LIGATURE-RESISTANT DISCLAIMER

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LRCMSH Ligature-resistant Ceiling Mounted Shower Head

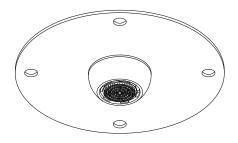
Recommended Specifications

Willoughby model LRCMSH Ligature-resistant Ceiling Mounted Shower Head shall be fixed type, constructed of type 303 stainless steel. The vandal resistant shower head shall be mounted on to a removable vandal resistant plate. The shower head shall have a 30° angle of spray, with 1.5 GPM flow rate. Optional 2.0 GPM flow rate available. Both the 1.5 GPM & 2.0 GPM Shower heads utilize a WaterSense Labeled insert that provides a steady and regulated flow. The inlet connection shall be 3/8" PTC fitting.

The LRCMSH features a concealed vandal resistant removable insert, the insert can be removed and installed with a specifically designed key tool. The insert provides a non-aerated (laminar flow) soft water stream w/ smart lime cleaning technology.

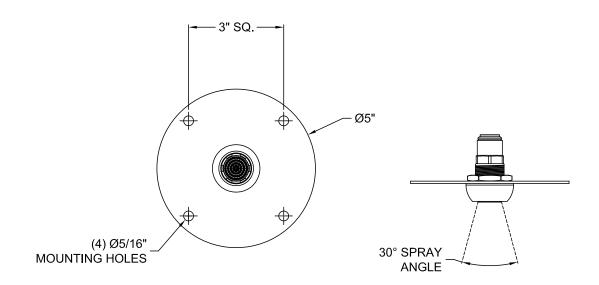
Flow Rate:

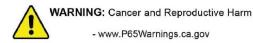
- 1.5 GPM Flow Rate (WaterSense Labeled Insert) (Standard)
- 2.0 GPM Flow Rate (WaterSense Labeled Insert)



LIGATURE-RESISTANT DISCLAIMER

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LRFX Ligature-resistant Quick Disconnect Hand Held Shower

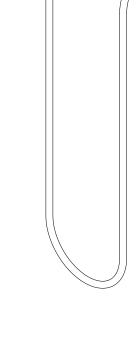
PATENT PENDING

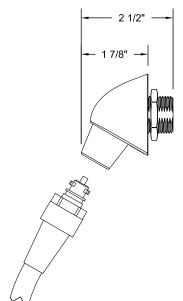
Willoughby model LRFX Ligature-resistant, Quick Disconnect with Hand Held Shower, shall be fixed type, with chrome-plated, die-cast construction base with a ligature-resistant quick disconnect hand held shower head. The shower head shall be rear mounted with no visible fasteners. The inlet connection shall be threaded for 3/8" F.I.P.

The LRFX features a 1/4 turn quick disconnect with positive shut off, to stop water flow when shower head and hose are disconnected. The LRFX base is rounded and tapered to minimize any potential ligature points. The shower head is designed to be disconnected from the base and removed from the shower stall when not in use.

Option:

☐ FA LRFX With Stainless Steel Front Mounted Plate (For Non Fixture Applications)







LIGATURE-RESISTANT DISCLAIMER

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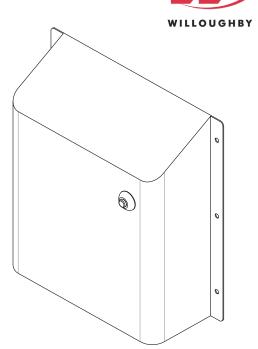
LRFVC-ADA Ligature-resistant **ADA Compliant** Flush Valve Cover

Stainless steel ligature-resistant ADA compliant flush valve cover shall be: Willoughby Option No. LRFVC-ADA

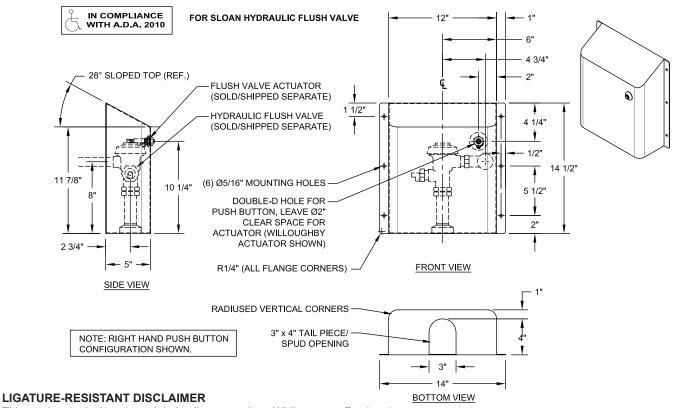
Flush valve cover shall be fabricated from 14 GA, Type 304 stainless steel with exposed stainless steel surfaces polished to a #3 satin finish. Flush valve cover is supplied with Ø5/16" mounting holes, anchoring hardware is provided by others. Flush valve cover shall have a ligature-resistant sloped top, radiused vertical corners, single flush valve push button hole for right or left hand toilet.

Options:

- □ DC Decorator Color (Fixture exterior only- White)
- ☐ For use with Willoughby push button actuator (double 'D' hole required)
- ☐ For use with Sloan push button actuator (Ø1-1/2" hole required)
- ☐ For use with another push button actuator (specify hole size:
- ☐ Left hand pushbutton location
- ☐ Right hand pushbutton location



SHOWN WITH WILLOUGHBY 600317PM PUSH BUTTON



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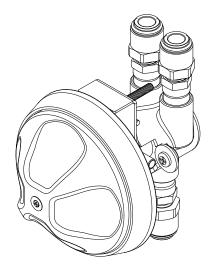
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WILLOUGHBY

DVLR Ligature-resistant **Diverter Valve**

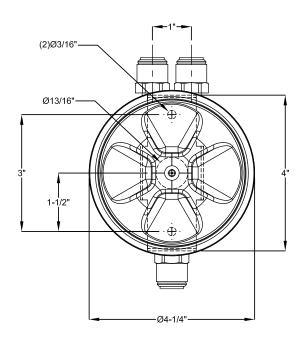


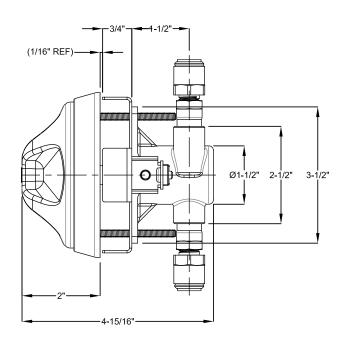
Recommended Specifications

Willoughby model DVLR Ligature-resistant, Diverter Valve shall be chrome-plated, die-cast construction. The vandal resistant shower diverter valve shall be rear mounted with one safety screw fastener visible. The shower diverter valve shall have a recommended operational water pressure of 35 psi minimum and 70 psi maximum. The inlet connection shall be 3/8" P.T.C. and the outlet connections shall be 3/8" P.T.C.

LIGATURE-RESISTANT DISCLAIMER

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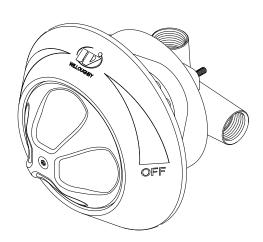


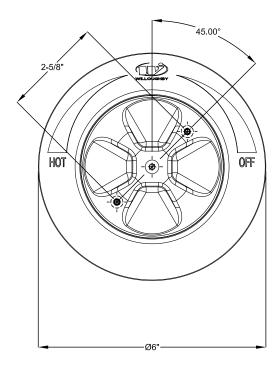
TPLR Ligature-resistant Mixing Valve

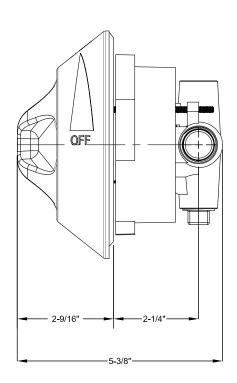


Recommended Specifications

Willoughby model TPLR Ligature-resistant, Temperature and Pressure Mixing Valve shall be chrome-plated, die-cast construction. The vandal resistant shower mixing valve shall be rear mounted with one safety screw fastener visible. The shower mixing valve shall have a recommended operational water pressure of 35 psi minimum and 70 psi maximum. The inlet connections shall be 1/2" M.P.T. and the outlet connection shall be 1/2" M.P.T. Valve meets the performance criteria for temperature and pressure changes, defined by ASSE 1016 (Type T/P). Valve meets American with Disabilities Act (ADA).







LIGATURE-RESISTANT DISCLAIMER

This product is designed to minimize ligature points. While every effort has been made to reduce the possibility of ligature points, this product does not eliminate all risks. Ligature-Resistant products by Willoughby Industries are to be used in conjunction with, not as a replacement for, trained professionals.



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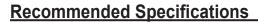


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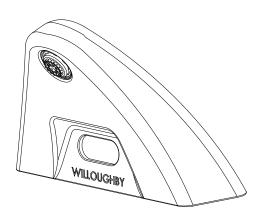


LRFC Ligature-resistant Infrared Faucet (4" Center Set)



Willoughby model LRFC Ligature-resistant, Infrared Faucet shall be constructed of cast 304 stainless steel with a polished exterior finish. The ligature-resistant faucet shall be surface mounted with no visible fasteners. The faucet shall have a 35° angle of spray, with 0.5 GPM maximum flow rate. The LRFC features a concealed vandal resistant removable insert. The insert can be serviced and installed with a specifically designed key tool. The insert provides a spray stream with smart lime cleaning technology. The LRFC has a contoured design to minimize any potential ligature points. LRFC-IR is supplied with valve, plug-in transformer, and connection cable. LRFC-BO is supplied with valve, battery pack, (6) AA batteries, and connection cable.

Faucet conforms to ADA requirements for accessibility, when mounted properly on fixture. Consult local codes for ADA requirements as codes and interpretations may vary.

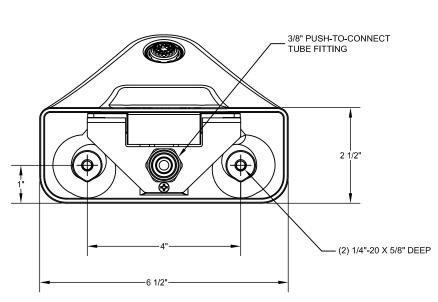


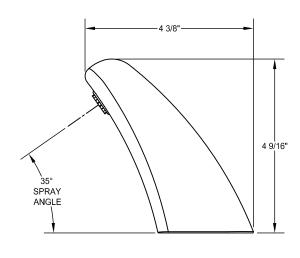
STANDARD:

□ IR Infrared Sensor, Plug-in* (with supplied valve and transformer)
 □ BO Infrared Sensor, Battery Operated (with supplied valve, batteries and battery pack)

OPTIONS:

☐ TMV In-line Thermostatic Mixing Valve *(Req. 110V power through ground fault interrupter (GFCI) receptacle)





LIGATURE-RESISTANT DISCLAIMER

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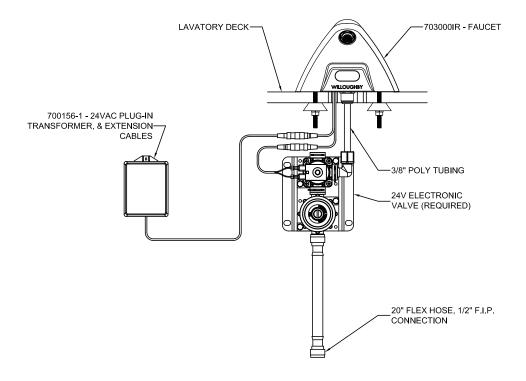
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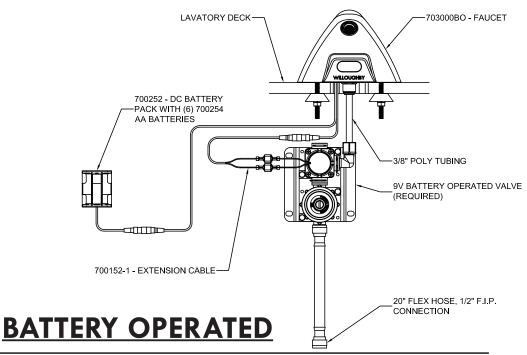
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PLUG-IN



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LRFC-PBH Ligature-resistant Pneumatic Push Button Faucet (4" Center Set)

MILLOUGHBY

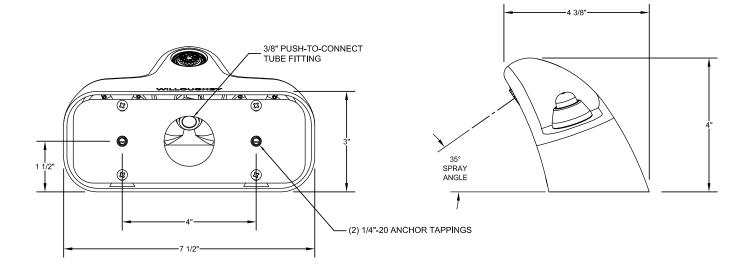
Recommended Specifications

Willoughby model LRFC-PBH Ligature-resistant, Pneumatic Push Button Faucet shall be constructed of cast 304 stainless steel with a polished exterior finish. The ligature-resistant faucet shall be surface mounted with no visible fasteners. The faucet shall have a 35° angle of spray, with 0.5 GPM maximum flow rate. The LRFC-PBH features a concealed vandal resistant removable insert. The insert can be serviced and installed with a specifically designed key tool. The insert provides a spray stream with smart lime cleaning technology. The LRFC-PBH has a contoured design to minimize any potential ligature points. The faucet is supplied with a valve, ligature-resistant pneumatic push buttons, and connection tubes.

Faucet conforms to ADA requirements for accessibility, when mounted properly on fixture. Consult local codes for ADA requirements as codes and interpretations may vary.

OPTIONS:

☐ TMV In-line Thermostatic Mixing Valve



LIGATURE-RESISTANT DISCLAIMER

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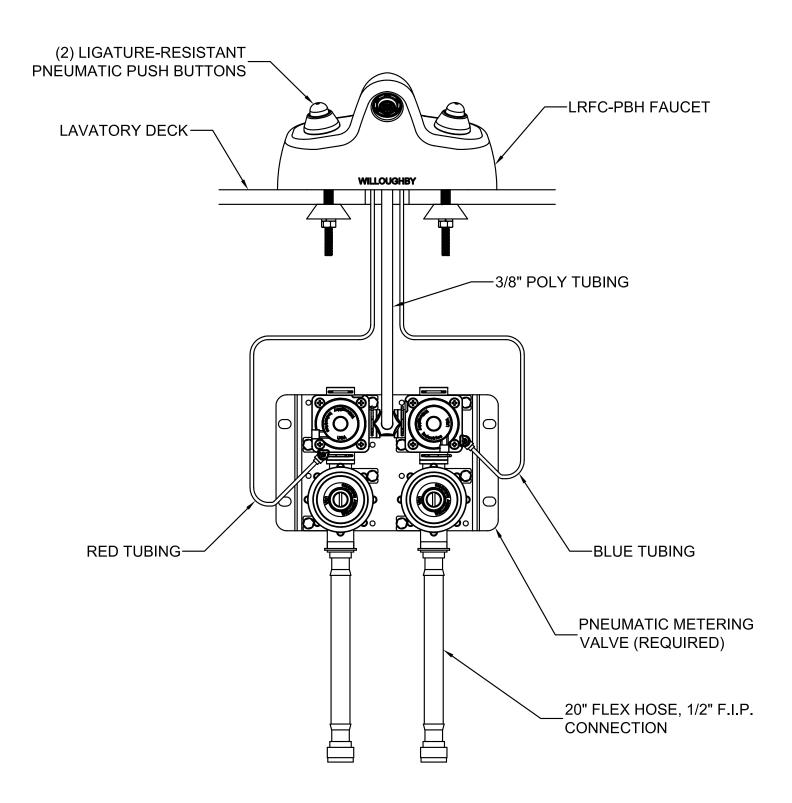


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LRFC-PZPB Ligature-resistant Piezo Electronic Push Button Faucet (4" Center Set)

Recommended Specifications

Willoughby model LRFC-PZPB Ligature-resistant, Electronic Push Button Faucet shall be constructed of cast 304 stainless steel with a polished exterior finish. The ligature-resistant faucet shall be surface mounted with no visible fasteners. The faucet shall have a 35° angle of spray, with 0.5 GPM maximum flow rate. The LRFC-PZPB features a concealed vandal resistant removable insert. The insert can be serviced and installed with a specifically designed key tool. The insert provides a spray stream with smart lime cleaning technology. The LRFC-PZPB has a contoured design to minimize any potential ligature points. The faucet is supplied with an electronic solenoid valve, ligature-resistant electronic Piezo push buttons, connection tube, electronic controllers*, plug-in transformer and cable extensions. Plug-in transformer req. 110V power through ground fault interrupter (GFCI) receptacle.

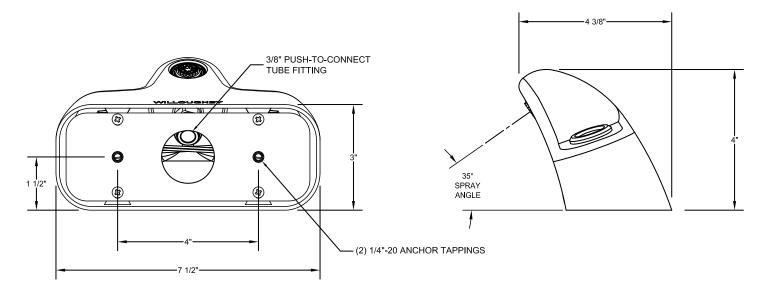
Faucet conforms to ADA requirements for accessibility, when mounted properly on fixture. Consult local codes for ADA requirements as codes and interpretations may vary.



OPTIONS:

☐ TMV In-line Thermostatic Mixing Valve

*See Willoughby Pneutronic All-Purpose Valve Controller spec page for operation.



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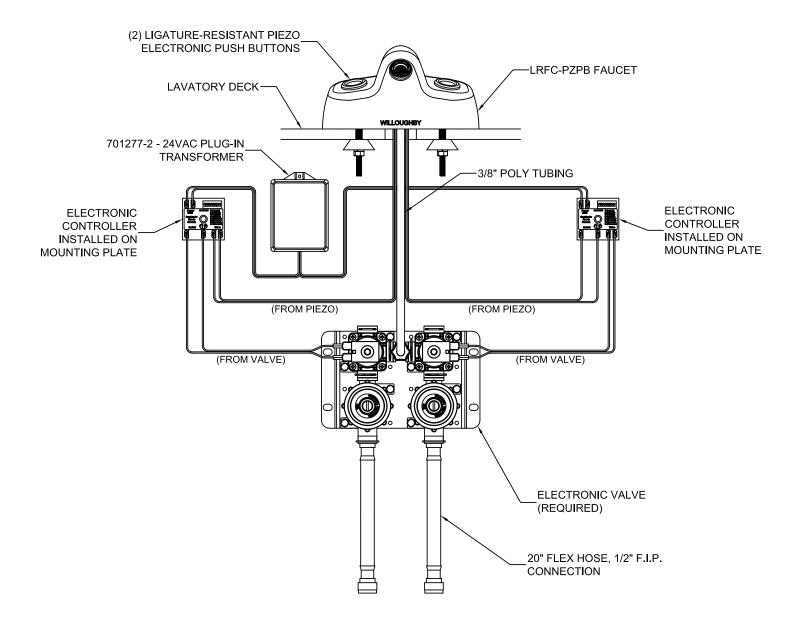
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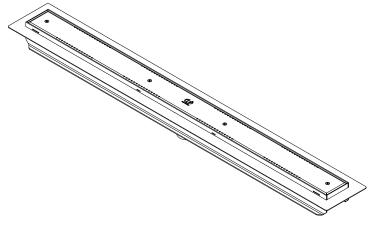


LRTD Series Ligature-Resistant Recessed Trench Floor Drain



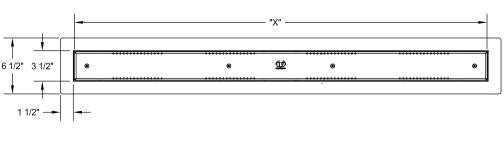
Ligature-Resistant Recessed Trench Floor Drain shall be Willoughby Model No. **LRTD-__**(select from model number from list below). Floor drain body assembly shall be 14 & 12 gauge stainless steel, with a 14 guage ligature-resistant drain cover polished to a satin finish.

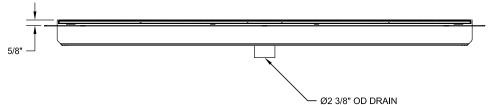
1	MODEL NUMBER	TRENCH DRAIN COVER LENGTH ("X")	DRAINAGE FLOW RATE (MAX. GPM)
	LRTD-12	12"	10 GPM
	LRTD-24	24"	15 GPM
	LRTD-36	36"	15 GPM
	LRTD-48	48"	20 GPM
	LRTD-60	60"	20 GPM

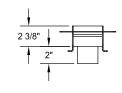


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Thank you for considering products manufactured by Willoughby Industries!

Since our opening in 1947, Willoughby's sole focus has been to provide the finest products in the industry. While our company shifted from sheet metal production to the manufacture of commercial plumbing products decades ago, our focus has never wavered.

Willoughby builds all of our products in Indianapolis, Indiana, USA, and—except for a few components—we fabricate all aspects of our products in-house before shipping them across the world. Thanks to the commitment of our craftspeople to the research, design, and production of stainless steel and solid surface plumbing products, we manufacture products of the highest quality.

As you consider the selection and use of commercial plumbing fixtures and accessories for your next project, Willoughby respectfully asks for your business. Being a third-generation family-owned business, you can COUNT ON US to meet and exceed your expectations!







