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1545 Series Handicap-ADA Compliant 15" Wide (for 45° Chase) Combination Units





Recommended Specifications

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

Example: To specify a wall outlet 15" handicap combination unit with angled left toilet, on floor, standard penal filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard 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-BP-1.6-PML2-PPB-EB-TWE-TWC3P-FV-FVT-RTH-WS

Handicap 15" (45° chase) combination lavatory/toilet 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
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- 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 bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" F.I.P.)

Unit shall include a grab bar; 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 fireresistant 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.

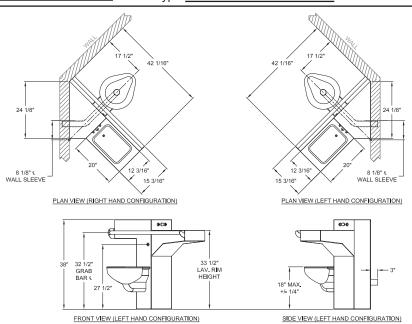
On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: For HET 1.28 GPF, unit will pass a 2" ball.

MADE IN THE U.S.A.

1.)	Toilet	Waste Location:	8.)	Lavator	ry Pus	h Button Selection:	12.) Waste	e Coupling for (TWE) Toilet Waste Extension:
	ECW	Wall Outlet		PPB	Pneu	matic Push Buttons		TWC3	3P Connecting to 3" PVC
	ECF	Floor Outlet		PBH	Ligatu	re-resistant Push Buttons		TWC3	3C Connecting to 3" Cast Iron
				EPB	Electr	onic Push Buttons		TWC4	4P Connecting to 4" PVC
2.)	Base I	Model Number:		EPBH	Ligatu	re-resistant Electronic Push Buttons		TWC4	4C Connecting to 4" Cast Iron
	1545	15" 45° Handicap		PZPB	Piezo	Electronic Push Buttons			-
		Lav-toilet Combination					13.) Other	r Options:
			9.)	Electro	nic Co	ntrols*		T4	Manual Reset Toilet Overflow Preventer, Req. (FV)
3.)	Toilet	Orientation:		Must U	se Ele	ctronic Lavatory & Flush Valves):		T4A	Auto Reset Toilet Overflow Preventer, Reg. (FV)
oʻ		Angled Left		•		□Pneutronic □WMSII		ET4	Electronic Toilet Overflow Preventer,
	R	Angled Right							Requires (EFV) & (WUCC-3010) or (WMSII)
		3 3	10.) Lavato	orv Wa	ste:		FV	Hydraulic Flush Valve (Includes Push Button)
4.)	Fixture	e Mounting:		•	,	Elbow Waste (1-1/2" F.I.P.)		EFV	Electronic Flush Valve (Pick Control)
		Off-Floor (ECW only)				(Standard)			P Electronic Flush Valve w/ (PZPB) (Pick Control)
	ON.	On-Floor		PT		Integral 'P'-Trap (1-1/2" F.I.P.)	_	TFE	Toilet Flush Extension
_	0			LWE		Lavatory Waste Extension		FVT	Flush Valve Connection
5)	Bubble	er Selection:		OV		Lavatory Overflow	_	HS	Hinged White Plastic Seat (Not recommended for
	BP	Penal Bubbler/Filler (Standard)		CW1		Combined Waste w/o Clean-out	_		Max. Security/Ligature-resistant use; No Cover)
	BC	Code Bubbler/Filler (w/ Mouth Guard)		CW2		Combined Waste w/ Clean-out	П	RTHC	C Recessed Tissue Holder (Not ADA Compliant)
_	BPH	Ligature-resistant Bubbler/Filler	_	LW1		Thru-Wall Extension, 'P'-Trap	_		(Behind Toilet)
_		Penal Lav. Filler	_			Thru-Wall Extension & Clean-out		TB1	Single Toothbrush Holder (Opposite toilet bowl)
	FLH	Ligature-resistant Lav. Filler	_			Slow Drain	_	TB2	Dual Toothbrush Holder (Opposite toilet bowl)
_		Elgatare-resistant Lav. 1 mer	_	OLOVV		Clow Brain		TH1	Single Towel Hook (Opposite toilet bowl)
6)	Fluch	Valve GPF (Must Specify):	11) Toilet	Wasto			TH2	Dual Towel Hook (Opposite toilet bowl)
-		SPF HET	<u> </u>	,	viusto	Gasketed Waste Connection		DC	Decorator Color (Fixture exterior only - White)
		PF ULF (Standard)	_	0110		(Standard on ECF)			H Hard-wired Transformer, 110VAC to 24VAC*
		PF (3" waste tube required)		TWE		Toilet Waste Extension			P Plug-in Transformer, 110VAC to 24VAC*
_	3.5 0	11 (3 waste tube required)	_	1 4 4 1		(Standard on ECW)		HPS	High Polish Seat
7)	Lavato	ory Valve Selection:		TW3		3" Clean-out for (TWE)		VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area)
•	NV	No Valve		TW4		Floor Outlet Waste Connection	_	VG	(Under Lav. Bowl)
		Single Temp. Pneumatic Non-metering		TW5		4" Clean-out for (TWE)		MT	Wall Template
		Dual Temp. Pneumatic Non-metering				Pinned Clean-out Plug PVC-3"		WS	Wall Sleeve (Requires Accessible Chase)
		Single Temp. Pneumatic Metering				Pinned Clean-out Plug Brass-3"		SK	Ligature-resistant Toilet Skirt, (ON) On-Floor Only
		Dual Temp. Pneumatic Metering				Pinned Clean-out Plug PVC-4"		TG	12 Gauge Cabinet
		Single Temp. Electronic (Pick Control)		PCB4		9		TSC	Toilet Shipping Cover
						Pinned Clean-out Plug Brass-4"		GBC	•
		Dual Temp. Electronic (Pick Control)				3" Toilet 'P'-Trap (3.5 GPF Only)			Ligature-resistant Grab Bar Closure Plate
		nifold Options:	ш	COH4		4" Clean-out Hook, 4" PVC Plug			Ligature-resistant Lavatory Closure Panel Less Grab Bar
,		ntic or Electronic Only:							
		MA2 MA3 MA4						PSL1-	
			*	(Dan 11	0\ /	the second second feet to		PSL1-	-DMBH Ligature-resistant DM Bubbler/Filler**
						ver through ground fault pter (GFCI) receptacle)		Other	**(Panel Mounted Push Button)
Г	Appro	ved For Manufacturing By:				Date:			Company:
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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.

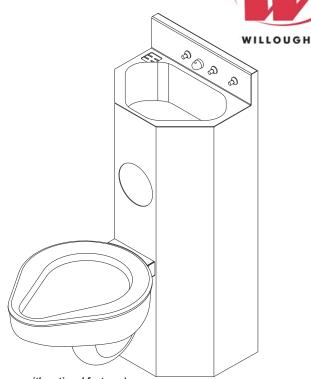




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1546 Series15" WideCombination Units



(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" combination unit with centered toilet, on floor, standard penal filler/ bubbler, 1.6 GPF, dual temp, pneumatic metering valve, standard 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-BP-1.6-PML2-PPB-EB-TWE-TWC3P-FV-FVT-RTHC-WS

Recommended Specifications

15" combination lavatory/toilet 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
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- 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 bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" F.I.P.)
- Self-draining soap dish

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

Cabinet interior shall be sound deadened with fireresistant 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: For HET 1.28 GPF, unit will pass a 2" ball.

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MODEL	NUMBER	OPT	IONS:
	INCINDEIX	\mathbf{v}	10110.

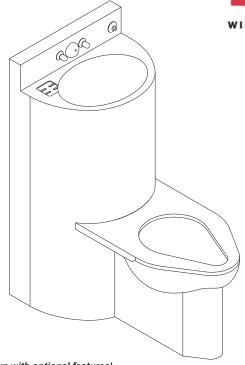
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1.)	Toilet \	Vaste Location:	8.)	Lavato	v Pusi	Button Selection:	12) Waste	Coupling for (TWE) Toilet Waste Extension:
•			٠. <i>,</i>		•			TWC3	
	ECW	Wall Outlet				natic Push Buttons			o a constant of the constant o
Ц	ECF	Floor Outlet		PBH	5	re-resistant Push Buttons		TWC3	•
				EPB		onic Push Buttons		TWC4	9
2.)	Base N	lodel Number:		EPBH	Ligatu	re-resistant Electronic Push Buttons		TWC4	C Connecting to 4" Cast Iron
•		15" Lav-toilet Combination				Electronic Push Buttons			ŭ
_	1040	. a Lav tollot combination	_		, 1020		12) Other	Options:
٠,	T - 11 - 4 - 4	Sul 4 - 41	٠,	- 1				,	•
•		Orientation:	•	Electro				T4	Manual Reset Toilet Overflow Preventer, Req. (FV)
	L	Angled Left		(Must U	se Elec	tronic Lavatory & Flush Valves):		T4A	Auto Reset Toilet Overflow Preventer, Req. (FV)
	R	Angled Right		WUCC	-3010	□Pneutronic □WMSII		ET4	Electronic Toilet Overflow Preventer,
	С	Centered							Requires (EFV) & (WUCC-3010) or (WMSII)
			10) Lavato	rv Wa	sto.		FV	Hydraulic Flush Valve (Includes Push Button)
4.	C:4	Manuation		-	ny wa				
-		Mounting:		EB		Elbow Waste (1-1/2" F.I.P.)		EFV	Electronic Flush Valve (Pick Control)
	OF	Off-Floor (ECW Only)				(Standard)		EFVP	Electronic Flush Valve w/ (PZPB) (Pick Control)
	ON	On-Floor		PT		Integral 'P'-Trap (1-1/2" F.I.P.)		TFE	Toilet Flush Extension
				LWE		Lavatory Waste Extension		FVT	Flush Valve Connection
5 \	Dubble	ur Calcation:	_	OV		Lavatory Overflow	_	HS	Hinged White Plastic Seat (Not recommended for
•		er Selection:				-	_	110	
	BP	Penal Bubbler/Filler (Standard)		CW1		Combined Waste w/o Clean-out			Max. Security/Ligature-resistant use; No Cover)
	BC	Code Bubbler/Filler (w/ Mouth Guard)		CW2		Combined Waste w/ Clean-out		RTH_	_Recessed Tissue Holder
	BPH	Ligature-resistant Bubbler/Filler		LW1		Thru-Wall Extension, 'P'-Trap		_	
	FL	Penal Lav. Filler		LW2		Thru-Wall Extension & Clean-out		ISH	Integral Shelf
									•
_	FLH	Ligature-resistant Lav. Filler	Ц	SLOW		Slow Drain		IRJ_	Single Toothbrush Holder
									□L □ R
6.)	Flush \	/alve GPF (Must Specify):	11.) Toilet	Waste:			TB2	Dual Toothbrush Holder
-		SPF HET		GWC		Gasketed Waste Connection			- OL OR
			_	00				TU1	Single Towel Hook
		PF ULF (Standard)	_	T) • / -		(Standard on ECF)	_	1111_	
ш	3.5 G	PF (3" waste tube required)		TWE		Toilet Waste Extension			
						(Standard on ECW)		TH2_	_Dual Towel Hook
7.)	Lavato	ry Valve Selection:		TW3		3" Clean-out for (TWE)			
-	NV	No Valve		TW4		Floor Outlet Waste Connection		DC	Decorator Color (Fixture exterior only - White)
		Single Temp. Pneumatic Non-metering		TW5					Hard-wired Transformer, 110VAC to 24VAC*
						4" Clean-out for (TWE)			
		Dual Temp. Pneumatic Non-metering				Pinned Clean-out Plug PVC-3"			Plug-in Transformer, 110VAC to 24VAC*
	PML1	Single Temp. Pneumatic Metering		PCB3		Pinned Clean-out Plug Brass-3"		HPS	High Polish Seat
	PML2	Dual Temp. Pneumatic Metering		PC4		Pinned Clean-out Plug PVC-4"		VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in ² free area)
	E1L1	Single Temp. Electronic (Pick Control)		PCB4		Pinned Clean-out Plug Brass-4"			
		Dual Temp. Electronic (Pick Control)		WO3		3" Toilet 'P'-Trap (3.5 GPF Only)		MT	Wall Template
									·
		nifold Options:		COH4		4" Clean-out Hook, 4" PVC Plug		WS	Wall Sleeve (Requires Accessible Chase)
P		tic or Electronic Only:						SK	Ligature-resistant Toilet Skirt, (ON) On-Floor Only
		MA2 □ MA3 □ MA4						TG	12 Gauge Cabinet
			*	(Req. 11	0V pov	ver through ground fault		TSC	Toilet Shipping Cover
				•		oter (GFCI) receptacle)		Other	· · · -
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5105 West 78th Street ● Indianapolis, IN. 46268 (317) 875-0830 ● Fax: (317) 875-0837 ● (800) 428-4065





1806 Series Ligature-resistant 18" Wide Combination 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" combination unit with centered toilet, on floor, standard ligature-resistant filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant 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

Ligature-resistant 18" combination lavatory/toilet 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
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- 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" F.I.P.)
- Self-draining soap dish

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

Cabinet interior shall be sound deadened with fireresistant material.

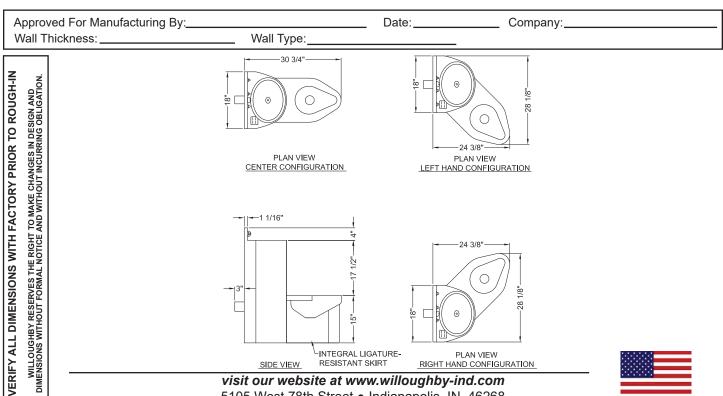
Anchoring shall be by standard 4-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

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: For HET 1.28 GPF, unit will pass a 2" ball.



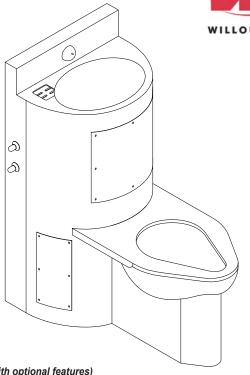
1.)	Toilet \	Vaste Location:	8.)	Lavatory Pus	h Button Selection:	12.) Wast	e Coupli	ng for (TWE) Toilet Waste Extension:
	ECW	Wall Outlet		PBH Ligatu	re-resistant Push Buttons		TWC3	3P	Connecting to 3" PVC
	ECF	Floor Outlet		EPBH Ligatu	re-resistant Electronic Push Buttons		TWC3	3C	Connecting to 3" Cast Iron
				PZPB Piezo	Electronic Push Buttons		TWC ²	ŀP	Connecting to 4" PVC
2.)	Base N	lodel Number:					TWC ²	IC .	Connecting to 4" Cast Iron
	1806	Ligature-resistant 18" Lav-toilet	9.)	Electronic Co	ntrols*				
		Combination	(Must Use Ele	ctronic Lavatory & Flush Valves):	13.) Other	Option	s:
				WUCC-3010	□Pneutronic □WMSII		T4		Reset Toilet Overflow Preventer, Req. (FV)
3.)	Toilet (Orientation:					T4A	Auto R	eset Toilet Overflow Preventer, Req. (FV)
	L	Angled Left	10.) Lavatory Wa	ste:		ET4	Electro	nic Toilet Overflow Preventer,
	R	Angled Right		EB	Elbow Waste (1-1/2" F.I.P.)			Require	es (EFV) & (WUCC-3010) or (WMSII)
	С	Centered			(Standard)		FV	Hydrau	lic Flush Valve (Includes Push Button)
				PT	Integral 'P'-Trap (1-1/2" F.I.P.)		EFV	Electro	nic Flush Valve (Pick Control)
4.)	Fixture	Mounting:		LWE	Lavatory Waste Extension		EFVP	Electro	nic Flush Valve w/ (PZPB) (Pick Control)
	ON	On-Floor (Standard)		OV	Lavatory Overflow		TFE	Toilet F	lush Extension
		, ,		CW1	Combined Waste w/o Clean-out		FVT	Flush V	/alve Connection
5.)	Bubble	r Selection:		CW2	Combined Waste w/ Clean-out		RTH	Recess	sed Tissue Holder
	BPH	Ligature-resistant Bubbler/Filler		LW1	Thru-Wall Extension, 'P'-Trap			_ 🗆 L	_ 🗆 R
		(Standard)		LW2	Thru-Wall Extension & Clean-out		TH1	Single '	Towel Hook
	FLH	Ligature-resistant Lav. Filler		SLOW	Slow Drain (Standard)			۵L	□ R
							TH2	Dual To	owel Hook
6.)	Flush '	/alve GPF (Must Specify):	11.) Toilet Waste	:			_ 🗖 L	□ R
o	1.28	PF HET		GWC	Gasketed Waste Connection		DC	Decora	tor Color (Fixture exterior only - White)
	1.6 GI	PF ULF (Standard)			(Standard on ECF)		TF24F	Hard-	wired Transformer, 110VAC to 24VAC*
	3.5 GI	PF (3" waste tube required)		TWE	Toilet Waste Extension		TF24F	Plug-i	n Transformer, 110VAC to 24VAC*
		. ,			(Standard on ECW)		HPS	High Po	olish Seat
7.)	Lavato	ry Valve Selection:		TW3	3" Clean-out for (TWE)		MT	Wall Te	mplate
	NV	No Valve		TW4	Floor Outlet Waste Connection		WS	Wall Sl	eeve (Requires Accessible Chase)
	PSL1	Single Temp. Pneumatic Non-metering		TW5	4" Clean-out for (TWE)		TG	12 Gau	ge Cabinet
	PSL2	Dual Temp. Pneumatic Non-metering		PC3	Pinned Clean-out Plug PVC-3"		TSC	Toilet S	hipping Cover
	PML1	Single Temp. Pneumatic Metering		PCB3	Pinned Clean-out Plug Brass-3"		Other		
	PML2	Dual Temp. Pneumatic Metering		PC4	Pinned Clean-out Plug PVC-4"		Other		
	E1L1	Single Temp. Electronic (Pick Control)		PCB4	Pinned Clean-out Plug Brass-4"				
	E1L2	Dual Temp. Electronic (Pick Control)		WO3	3" Toilet 'P'-Trap (3.5 GPF Only)	*	(Req. 1	10V pow	er through ground fault
		nifold Options:		COH4	4" Clean-out Hook, 4" PVC Plug			interrup	oter (GFCI) receptacle)
F	Pneuma	tic or Electronic Only:			,				, , ,
		MA2 D MA3 D MA4							



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1806-FA Series Ligature-resistant Front Access 18" Wide Combination Unit



(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" combination unit with center toilet, standard ligature-resistant filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant 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

Ligature-resistant 18" front access combination lav./toilet 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
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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.

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 fireresistant material.

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

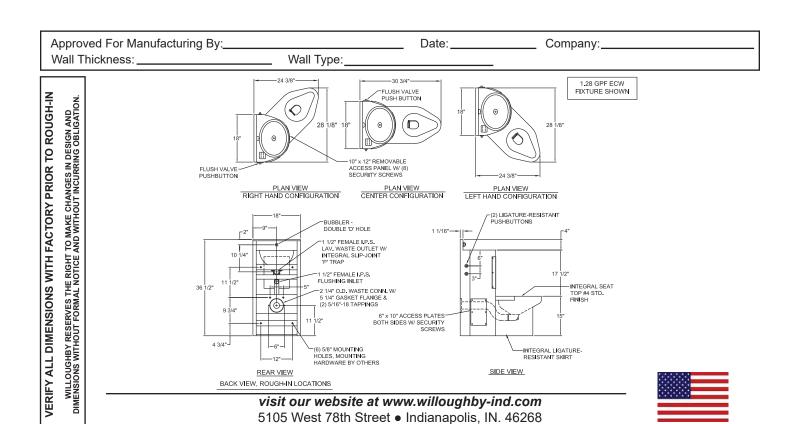
Anchoring shall be from the front, anchoring holes provided. Anchoring hardware provided by others. Standard unit requires no chase area for installation and maintenance, however certain non-standard options may require an accessible chase (see options list for details).

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: For HET 1.28 GPF, unit will pass a 2" ball.



1.)	Toilet \	Naste I	Location:	8.)	Lavatory Pus	h Button Selection:	13.) Other	Options:
	ECW		Wall Outlet		PBH Ligatu	re-resistant Push Buttons		T4	Manual Reset Toilet Overflow Preventer, Req. (F\
	ECF		Floor Outlet		EPBH Ligatu	re-resistant Electronic Push Buttons		T4A	Auto Reset Toilet Overflow Preventer, Req. (FV)
					PZPB Piezo	Electronic Push Buttons		ET4	Electronic Toilet Overflow Preventer,
2.)	Base N	lodel N	lumber:						Requires (EFV) & (WUCC-3010) or (WMSII)
	1806-	FA	Ligature-resistant Front Access	9.)	Electronic Co	ntrols*		FV	Hydraulic Flush Valve (Includes Push Button)
			18" Lav-toilet Combination	(Must Use Ele	ctronic Lavatory & Flush Valves):		EFV	Electronic Flush Valve (Pick Control)
					WUCC-3010	□Pneutronic □WMSII		EFVP	Electronic Flush Valve w/ (PZPB) (Pick Control)
3.)	Toilet (Orienta	tion:					RTH	Recessed Tissue Holder
	L	Angle	d Left	10.) Lavatory Wa	ste:			□ LF -Left Front for C/R Toilet Orientation
	R	Angle	d Right		RPT	Removable 'P'-Trap (1-1/2" N.P.T.)			□ RF -Right Front for L Toilet Orientation
	С	Cente	red			(Standard)		TH1	Single Towel Hook
					OV	Lavatory Overflow			ŬL OR
4.)	Fixture	Moun	ting:		CW1	Combined Waste w/o Clean-out		TH2	Dual Towel Hook
	ON	On-Flo	oor		CW2	Combined Waste w/ Clean-out			- OL OR
					SLOW	Slow Drain (Standard)		DC	Decorator Color (Fixture exterior only - White)
5.)	Bubble	er Sele	ction:			, ,		TF24F	Hard-wired Transformer, 110VAC to 24VAC*
	BPH	Ligatu	re-resistant Bubbler/Filler	11.)) Toilet Waste	:		TF24F	Plug-in Transformer, 110VAC to 24VAC*
		(Stand	lard)		GWC	Gasketed Waste Connection		HPS	High Polish Seat
	FLH	Ligatu	re-resistant Lav. Filler			(Standard)		MT	Wall Template
		Ü			TWE	Toilet Waste Extension		WS	Wall Sleeve (Requires Accessible Chase)
6.)	Flush '	Valve G	SPF (Must Specify):			(Requires Accessible Chase)		TG	12 Gauge Cabinet
	1.28	SPF HE	T		WO3	3" Toilet 'P'-Trap (3.5 GPF Only)		TSC	Toilet Shipping Cover
	1.6 GI	PF ULF	(Standard)					Other	
	3.5 GI	PF (3" v	vaste tube required)	12.) Waste Coup	ling for (TWE) Toilet Waste		Other	
		•			Extension:				
7.)	Lavato	ry Valv	re Selection:		TWC3P	Connecting to 3" PVC	*	(Req. 1	10V power through ground fault
	NV	No Va	lve		TWC3C	Connecting to 3" Cast Iron			interrupter (GFCI) receptacle)
	PSL1	Single	Temp. Pneumatic Non-metering		TWC4P	Connecting to 4" PVC			
	PSL2	Dual T	emp. Pneumatic Non-metering		TWC4C	Connecting to 4" Cast Iron			
	PML1	Single	Temp. Pneumatic Metering						
	PML2	Dual T	emp. Pneumatic Metering						
П	F1I 1	Single	Temp Flectronic (Pick Control)						



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☐ E1L2 Dual Temp. Electronic (Pick Control)

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1846 Series 18" Wide Combination Units



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

Example: To specify a wall outlet 18" combination unit with centered toilet, on floor, standard penal filler/ bubbler, 1.6 GPF, dual temp, pneumatic metering valve, standard 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-BP-1.6-PML2-PPB-EB-TWE-TWC3P-FV-FVT-RTHC-WS

Recommended Specifications

18" combination lavatory/toilet 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
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- 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 bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" F.I.P.)
- Self-draining soap dish

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

Cabinet interior shall be sound deadened with fireresistant 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: For HET 1.28 GPF, unit will pass a 2" ball.



MODEL	NUMBER	OPT	IONS:
	INCINDEIX	\mathbf{v}	10110.

\vdash							
1.)	Toilet V	Vaste Location:	8.) Lavator	ry Push Button Selection: 1	12.) Waste	Coupling for (TWE) Toilet Waste Extension:
•	ECW	Wall Outlet	☐ PPB	-		TWC3	
	ECF	Floor Outlet	□ PBH			TWC3	o contract of the contract of
		•	□ EPB	S .		TWC4	6
2.)	Base M	lodel Number:		Ligature-resistant Electronic Push Buttons			•
		18" Lav-toilet Combination		Piezo Electronic Push Buttons	_		
_			, 5		13	Other	Options:
3.)	Toilet (Orientation:	9.) Electro			T4	Manual Reset Toilet Overflow Preventer, Reg. (FV)
<u> </u>	L	Angled Left			_	T4A	Auto Reset Toilet Overflow Preventer, Req. (FV)
_		Angled Right				ET4	Electronic Toilet Overflow Preventer,
		Centered		The state of the s	_		Requires (EFV) & (WUCC-3010) or (WMSII)
_	-		10.) Lavate	ory Waste:		FV	Hydraulic Flush Valve (Includes Push Button)
4١	Fixture	Mounting:	□ EB			EFV	Electronic Flush Valve (Pick Control)
-	OF	Off-Floor (ECW Only)					Electronic Flush Valve w/ (PZPB) (Pick Control)
	ON	On-Floor	□ PT	,		TFE	Toilet Flush Extension
_	ON	OH-1 1001	LWE	,		FVT	Flush Valve Connection
5 \	Dubble	r Soloation:	□ OV	· · · · · · · · · · · · · · · · · · ·		HS	Hinged White Plastic Seat (Not recommended for
•	BP	r Selection:		Combined Waste w/o Clean-out	_	по	`
		Penal Bubbler/Filler (Standard)			_	DTU	Max. Security/Ligature-resistant use; No Cover)
	BC	Code Bubbler/Filler (w/ Mouth Guard)	CW2			KIH_	Recessed Tissue Holder
	BPH	Ligature-resistant Bubbler/Filler	LW1	Thru-Wall Extension, 'P'-Trap	_	1011	
	FL	Penal Lav. Filler	LW2			ISH	Integral Shelf
	FLH	Ligature-resistant Lav. Filler	□ SLOW	Slow Drain		1B1	Single Toothbrush Holder
_					_		□L □ R
-		/alve GPF (Must Specify):	11.) Toilet			TB2	Dual Toothbrush Holder
		PF HET	☐ GWC	Gasketed Waste Connection			□L □ R
		PF ULF (Standard)		,		TH1_	Single Towel Hook
	3.5 GF	PF (3" waste tube required)	☐ TWE	Toilet Waste Extension			
				- /		TH2_	Dual Towel Hook
-		ry Valve Selection:	☐ TW3	3" Clean-out for (TWE)			
	NV	No Valve	☐ TW4			DC	Decorator Color (Fixture exterior only - White)
		Single Temp. Pneumatic Non-metering		` ,			Hard-wired Transformer, 110VAC to 24VAC*
		Dual Temp. Pneumatic Non-metering	□ PC3	· ·			Plug-in Transformer, 110VAC to 24VAC*
		Single Temp. Pneumatic Metering	□ PCB3	9			High Polish Seat
		Dual Temp. Pneumatic Metering	☐ PC4	Pinned Clean-out Plug PVC-4"		VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in ² free area)
	E1L1	Single Temp. Electronic (Pick Control)	☐ PCB4	Pinned Clean-out Plug Brass-4"			□ L □ LF □ RF □ R
	E1L2	Dual Temp. Electronic (Pick Control)	□ WO3	3" Toilet 'P'-Trap (3.5 GPF Only)		MT	Wall Template
Val	lve Mar	ifold Options:	□ COH4	4" Clean-out Hook, 4" PVC Plug		WS	Wall Sleeve (Requires Accessible Chase)
F	Pneuma	tic or Electronic Only:				SK	Ligature-resistant Toilet Skirt, (ON) On-Floor Only
		MA2 MA3 MA4				TG	12 Gauge Cabinet
			*(Req. 11	10V power through ground fault		TSC	Toilet Shipping Cover
				interrupter (GFCI) receptacle)		Other	
						Other	
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1846-FA Series **Front Access 18" Wide Combination Units**



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

Example: To specify a wall outlet front access 18" combination unit with centered toilet, standard penal filler/bubbler, 1.6 GPF, dual temp, pneumatic metering valve, standard 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-BP-1.6-PML2-PPB-RPT-GWC-FV-RTHL-MT

Recommended Specifications

Front access 18" combination lavatory/toilet 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
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- 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 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 fireresistant 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).

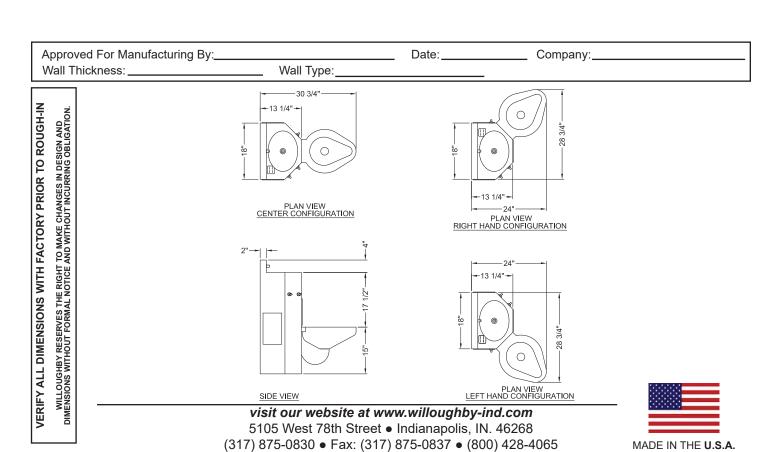
On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: For HET 1.28 GPF, unit will pass a 2" ball.

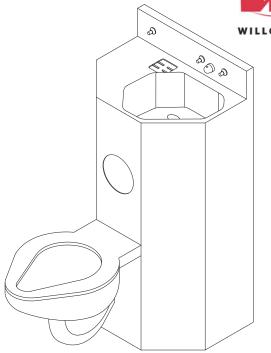
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1.)	Toilet V	Vaste L	ocation:	8.)	Lavator	y Pusl	n Button Selection:	13.) Other	Options:
	ECW		Wall Outlet		PPB	Pneur	natic Push Buttons		T4	Manual Reset Toilet Overflow Preventer, Req. (FV)
	ECF		Floor Outlet		PBH	Ligatu	re-resistant Push Buttons		T4A	Auto Reset Toilet Overflow Preventer, Reg. (FV)
					EPB	Electro	onic Push Buttons		ET4	Electronic Toilet Overflow Preventer,
2.)	Base N	lodel N	umber:		EPBH	Ligatu	re-resistant Electronic Push Buttons			Requires (EFV) & (WUCC-3010) or (WMSII)
ď	1846-l	-A	Front Access 18" Lav-toilet		PZPB	Piezo	Electronic Push Buttons		FV	Hydraulic Flush Valve (Includes Push Button)
			Combination						EFV	Electronic Flush Valve (Pick Control)
				9.)	Electro	nic Co	ntrols*		EFVP	Electronic Flush Valve w/ (PZPB) (Pick Control)
3.)	Toilet 0) Drienta	tion:				tronic Lavatory & Flush Valves):		HS	Hinged White Plastic Seat (Not recommended for
oʻ		Angle			•		□Pneutronic □WMSII			Max. Security/Ligature-resistant use; No Cover)
		Angled							RTH	Recessed Tissue Holder
	С	Center	•	10.) Lavato	orv Wa	ste:		_	L -Left Side Holder for C & R Toilet Orientation
					RPT	•	Removable 'P'-Trap (1-1/2" N.P.T.)			☐ R -Right Side Holder for L Toilet Orientation
4.)	Fixture	Mount	ting:				(Standard)		ISH	Integral Shelf
•	ON	On-F	•		OV		Lavatory Overflow		TB1	Single Toothbrush Holder
					CW1		Combined Waste w/o Clean-out		_	_ ol or
5.)	Bubble	r Selec	ction:		CW2		Combined Waste w/ Clean-out		TB2	Dual Toothbrush Holder
o´	BP	Penal	Bubbler/Filler (Standard)		SLOW		Slow Drain		_	_ LR
	ВС	Code E	Bubbler/Filler (w/ Mouth Guard)						TH1	Single Towel Hook
	BPH		re-resistant Bubbler/Filler	11.) Toilet	Waste:			_	_ L _ LF _ L C _ LRF _ LR
	FL	Penal	Lav. Filler		GWC		Gasketed Waste Connection		TH2	Dual Towel Hook
	FLH	Ligatur	re-resistant Lav. Filler				(Standard)		_	_ _ O L O LF O C O RF O R
		Ö			TWE		Toilet Waste Extension		DC	Decorator Color (Fixture exterior only - White)
6.)	Flush \	/alve G	PF (Must Specify):				(Requires Accessible Chase)		TF24F	Hard-wired Transformer, 110VAC to 24VAC*
-	1.28 G				TW4		Floor Outlet Waste Connection		TF24F	Plug-in Transformer, 110VAC to 24VAC*
	1.6 GF	PF ULF	(Standard)		WO3		3" Toilet 'P' Trap (3.5 GPF Only)		HPS	High Polish Seat
	3.5 GF	PF (3" w	vaste tube required)				- ,		VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in ² free area)
		·		12.) Waste	Coupl	ing for (TWE) Toilet Waste			
7.)	Lavato	ry Valv	e Selection:		Extens	sion:			MT	Wall Template
	NV	No Val	ve		TWC3I	>	Connecting to 3" PVC		WS	Wall Sleeve (Requires Accessible Chase)
	PSL1	Single	Temp. Pneumatic Non-metering		TWC30	С	Connecting to 3" Cast Iron		SK	Ligature-resistant Toilet Skirt
	PSL2	Dual To	emp. Pneumatic Non-metering		TWC4I	Þ	Connecting to 4" PVC		TG	12 Gauge Cabinet
	PML1	Single	Temp. Pneumatic Metering		TWC40	С	Connecting to 4" Cast Iron		TSC	Toilet Shipping Cover
	PML2	Dual To	emp. Pneumatic Metering						Other	
	E1L1	Single	Temp. Electronic (Pick Control)						Other	
	E1L2	Dual To	emp. Electronic (Pick Control)							
								*	(Req. 1	10V power through ground fault
										into municipal (CECI) no controllo)

interrupter (GFCI) receptacle)



1847 Series 18" Wide Angled Lav. Bowl Combination Units



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" combination unit with angled right lav. bowl, centered toilet, on floor, standard penal filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard 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-BP-1.6-PML2-PPB-EB-TWE-TWC3P-FV-FVT-RTHC-WS

Recommended Specifications

18" angled lav. bowl combination lavatory/toilet 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
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- 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 bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" F.I.P.)
- Self-draining soap dish

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

Cabinet interior shall be sound deadened with fireresistant 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: For HET 1.28 GPF, unit will pass a 2" ball.

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			M	ODE	LN	NUMBER AND OP	TIC	ONS	3 :
1.)	Toilet W	Vaste Location:	9.)	Lavator	y Pus	h Button Selection:	13.) Wast	e Coupling for (TWE) Toilet Waste Extension:
	ECW	Wall Outlet		PPB		matic Push Buttons		TWC	9
ш	ECF	Floor Outlet			•	re-resistant Push Buttons		TWC3	3
21	Base M	lodel Number:				onic Push Buttons ure-resistant Electronic Push Buttons			3
•		18" Angled Lav-toilet Combination				Electronic Push Buttons	_		Commonly to 1 Guermon
								•	Options:
3.)		owl Orientation:		.) Electro				T4	Manual Reset Toilet Overflow Preventer, Req. (FV)
		□ L -Angled Left□ R -Angled Right				ctronic Lavatory & Flush Valves): □Pneutronic □WMSII		T4A ET4	Auto Reset Toilet Overflow Preventer, Req. (FV) Electronic Toilet Overflow Preventer,
4.)		Drientation:	_	WOCC.	-3010	arneutonic awwon	_	L14	Requires (EFV) & (WUCC-3010) or (WMSII)
,		☐ L-Angled Left	11.) Lavato	ry Wa	ste:		FV	Hydraulic Flush Valve (Includes Push Button)
		☐ R -Angled Right		EB	-	Elbow Waste (1-1/2" F.I.P.)		EFV	Electronic Flush Valve (Pick Control)
		☐ C -Centered				(Standard)			Electronic Flush Valve w/ (PZPB) (Pick Control)
. .	Civture	Mountings		PT		Integral 'P'-Trap (1-1/2" F.I.P.)		TFE FVT	Toilet Flush Extension
	OF	Mounting: Off-Floor (ECW Only)		LWE OV		Lavatory Waste Extension Lavatory Overflow		HS	Flush Valve Connection Hinged White Plastic Seat (Not recommended for
	ON	On-Floor		CW1		Combined Waste w/o Clean-out	_	110	Max. Security/Ligature-resistant use; No Cover)
				CW2		Combined Waste w/ Clean-out		RTH_	_Recessed Tissue Holder
6.)	Bubble	r Selection:		LW1		Thru-Wall Extension, 'P'-Trap			
		Penal Bubbler/Filler (Standard)		LW2		Thru-Wall Extension & Clean-out		ISH	Integral Shelf
		Code Bubbler/Filler (w/ Mouth Guard)		SLOW		Slow Drain		TB1_	_Single Toothbrush Holder
		Ligature-resistant Bubbler/Filler Penal Lav. Filler	12	.) Toilet \	Wasto			TR2	□ L □ R Dual Toothbrush Holder
		Ligature-resistant Lav. Filler		GWC	vusto	Gasketed Waste Connection	_	102_	
						(Standard on ECF)		TH1_	_Single Towel Hook
•		/alve GPF (Must Specify):		TWE		Toilet Waste Extension			OLOLF ORFOR
	1.28 G			T14/0		(Standard on ECW)		TH2_	_Dual Towel Hook
		PF ULF (Standard) PF (3" waste tube required)		TW3 TW4		3" Clean-out for (TWE) Floor Outlet Waste Connection		DC	□ L □ LF □ RF □ R Decorator Color (Fixture exterior only - White)
_	3.5 GF	r (3 waste tube required)		TW5		4" Clean-out for (TWE)			Hard-wired Transformer, 110VAC to 24VAC*
8.)	Lavator	ry Valve Selection:	_	PC3		Pinned Clean-out Plug PVC-3"			Plug-in Transformer, 110VAC to 24VAC*
-		No Valve		PCB3		Pinned Clean-out Plug Brass-3"		HPS	High Polish Seat
		Single Temp. Pneumatic Non-metering	-	PC4		Pinned Clean-out Plug PVC-4"		VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in ² free area)
		Dual Temp. Pneumatic Non-metering				Pinned Clean-out Plug Brass-4"		NAT	□ L □ LF □ RF □ R
		Single Temp. Pneumatic Metering Dual Temp. Pneumatic Metering				3" Toilet 'P'-Trap (3.5 GPF Only) 4" Clean-out Hook, 4" PVC Plug		MT WS	Wall Template Wall Sleeve (Requires Accessible Chase)
		Single Temp. Electronic (Pick Control)		00114		4 Cicali cut Hook, 4 1 VO Hug		SK	Ligature-resistant Toilet Skirt, (ON) On-Floor Only
		Dual Temp. Electronic (Pick Control)						TG	12 Gauge Cabinet
		ifold Options:						TSC	Toilet Shipping Cover
F		tic or Electronic Only:	*			wer through ground fault		FA	Front Access (For use when no chase exists)
_		MA2 MA3 MA4		-	ınterru	pter (GFCI) receptacle)		Other	
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2046 Series 20" Wide Angled Toilet Bowl Combination Units



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

Example: To specify a wall outlet 20" combination unit with angled left toilet, on floor, standard penal filler/bubbler, 1.6 GPF, dual temp, pneumatic metering valve, standard 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-BP-1.6-PML2-PPB-EB-TWE-TWC3P-FV-FVT-RTHC-WS

Recommended Specifications

20" angled toilet bowl combination lavatory/toilet 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
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- 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 bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" F.I.P.)
- Self-draining soap dish

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

Cabinet interior shall be sound deadened with fireresistant 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: For HET 1.28 GPF, unit will pass a 2" ball.

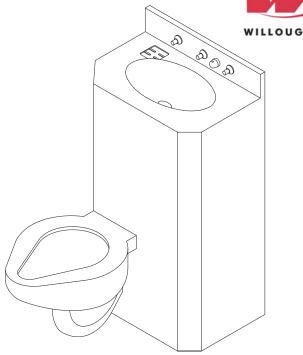
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1.)	Toilet \	Vaste Location:	8.) I	_avato	ry Pusi	h Button Selection:	12.) Waste	Coupling for (TWE) Toilet Waste Extension:
•	ECW	Wall Outlet		PPB		natic Push Buttons		TWC3	· · · · · · · · · · · · · · · · · · ·
	ECF	Floor Outlet		PBH		re-resistant Push Buttons		TWC3	
_	_0.			EPB	•	onic Push Buttons		TWC4	
2 \	Page N	lodel Number:				re-resistant Electronic Push Buttons			9
							_	1 4 4 6 4	Connecting to 4 Cast Iron
_	2040	20" Angled Lav-toilet Combination		PZPD	Piezo	Electronic Push Buttons	40	. 041	Outhorse
٠.								•	Options:
•		Orientation:				ntrols*		T4	Manual Reset Toilet Overflow Preventer, Req. (FV)
	L	Angled Left				ctronic Lavatory & Flush Valves):		T4A	Auto Reset Toilet Overflow Preventer, Req. (FV)
	R	Angled Right		WUCC	-3010	□Pneutronic □WMSII		ET4	Electronic Toilet Overflow Preventer,
									Requires (EFV) & (WUCC-3010) or (WMSII)
4.)	Fixture	Mounting:	10.)	Lavate	ory Wa	ste:		FV	Hydraulic Flush Valve (Includes Push Button)
	OF	Off-Floor (ECW Only)		EB	-	Elbow Waste (1-1/2" F.I.P.)		EFV	Electronic Flush Valve (Pick Control)
	ON	On-Floor				(Standard)			Electronic Flush Valve w/ (PZPB) (Pick Control)
_	0	J. 1. 165.		PT		Integral 'P'-Trap (1-1/2" F.I.P.)		TFE	Toilet Flush Extension
5 \	Rubble	r Selection:		LWE		Lavatory Waste Extension	_	FVT	Flush Valve Connection
•									
	BP	Penal Bubbler/Filler (Standard)		OV		Lavatory Overflow		HS	Hinged White Plastic Seat (Not recommended for
	ВС	Code Bubbler/Filler (w/ Mouth Guard)		CW1		Combined Waste w/o Clean-out	_		Max. Security/Ligature-resistant use; No Cover)
	BPH	Ligature-resistant Bubbler/Filler		CW2		Combined Waste w/ Clean-out		RTH_	_Recessed Tissue Holder
	FL	Penal Lav. Filler		LW1		Thru-Wall Extension, 'P'-Trap			
	FLH	Ligature-resistant Lav. Filler		LW2		Thru-Wall Extension & Clean-out		ISH	Integral Shelf
				SLOW		Slow Drain		TB1	Single Toothbrush Holder
6.)	Flush \	/alve GPF (Must Specify):							L D R
-		SPF HET	11 \	Toilet	Waste	:		TB2	Dual Toothbrush Holder
		PF ULF (Standard)		GWC		Gasketed Waste Connection	_	. 52	
		PF (3" waste tube required)	_	3440				TU4	Single Towel Hook
_	J.J G	1 (5 waste tube required)		T\A/F		(Standard on ECF)	_	1111_	_ 0
				TWE		Toilet Waste Extension	_		
•		ry Valve Selection:				(Standard on ECW)		TH2	_Dual Towel Hook
	NV	No Valve		TW3		3" Clean-out for (TWE)			
	PSL1	Single Temp. Pneumatic Non-metering		TW4		Floor Outlet Waste Connection		DC	Decorator Color (Fixture exterior only - White)
	PSL2	Dual Temp. Pneumatic Non-metering		TW5		4" Clean-out for (TWE)		TF24H	Hard-wired Transformer, 110VAC to 24VAC*
	PML1	Single Temp. Pneumatic Metering		PC3		Pinned Clean-out Plug PVC-3"		TF24P	Plug-in Transformer, 110VAC to 24VAC*
		Dual Temp. Pneumatic Metering		PCB3		Pinned Clean-out Plug Brass-3"		HPS	High Polish Seat
		Single Temp. Electronic (Pick Control)		PC4		Pinned Clean-out Plug PVC-4"		VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in ² free area)
		Dual Temp. Electronic (Pick Control)		PCB4		Pinned Clean-out Plug Brass-4"	_		□ L □C □ R
		nifold Options:	_	WO3		3" Toilet 'P'-Trap (3.5 GPF Only)		MT	Wall Template
		-							•
ı		tic or Electronic Only:	ш	COH4		4" Clean-out Hook, 4" PVC Plug		WS	Wall Sleeve (Requires Accessible Chase)
		MA2 MA3 MA4						SK	Ligature-resistant Toilet Skirt, (ON) On-Floor Only
								TG	12 Gauge Cabinet
								TSC	Toilet Shipping Cover
			*(Req. 11	0V pov	ver through ground fault		FA	Front Access (For use when no chase exists)
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2096 Series 20" Wide Offset Toilet Bowl Combination Units



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" combination unit with offset left toilet, on floor, standard penal filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard 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-BP-1.6-PML2-PPB-EB-TWE-TWC3P-FV-FVT-WS

Recommended Specifications

20" offset toilet bowl combination lavatory/toilet 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
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- 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 bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" F.I.P.)
- Self-draining soap dish

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

Cabinet interior shall be sound deadened with fireresistant 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: For HET 1.28 GPF, unit will pass a 2" ball.

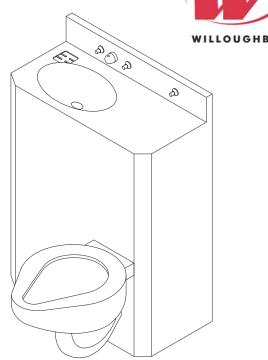


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1)	Toilet Waste Location:	8.) Lavatory Push Button Selection	on: 1	12 \	Wasto	Coupling for (TWE) Toilet Waste Extension:
•	ECW Wall Outlet	□ PPB Pneumatic Push Buttor			TWC3	
					TWC3	•
_	ECF Floor Outlet	3				3
_		□ EPB Electronic Push Button			TWC4	•
	Base Model Number:	☐ EPBH Ligature-resistant Elect			IWC4	C Connecting to 4" Cast Iron
	2096 20" Offset Lav-toilet Combination	□ PZPB Piezo Electronic Push I				
				,		Options:
3.)	Toilet Orientation:	9.) Electronic Controls*			T4	Manual Reset Toilet Overflow Preventer, Req. (FV)
	L Offset Left	(Must Use Electronic Lavatory	& Flush Valves):		T4A	Auto Reset Toilet Overflow Preventer, Req. (FV)
	R Offset Right	□ WUCC-3010 □Pneutronic □	•			Electronic Toilet Overflow Preventer,
_	- 3					Requires (EFV) & (WUCC-3010) or (WMSII)
4١	Fixture Mounting:	10.) Lavatory Waste:	г		FV	Hydraulic Flush Valve (Includes Push Button)
•	OF Off-Floor (ECW Only)	☐ EB Elbow Waste (1-				Electronic Flush Valve (Pick Control)
	` **	,	,			` ,
ш	ON On-Floor	(Standard)				Electronic Flush Valve w/ (PZPB) (Pick Control)
		□ PT Integral 'P'-Trap	` '			Toilet Flush Extension
•	Bubbler Selection:	□ LWE Lavatory Waste				Flush Valve Connection
	BP Penal Bubbler/Filler (Standard)	□ OV Lavatory Overflo			HS	Hinged White Plastic Seat (Not recommended for
	BC Code Bubbler/Filler (w/ Mouth Guard)	□ CW1 Combined Wast	e w/o Clean-out			Max. Security/Ligature-resistant use; No Cover)
	BPH Ligature-resistant Bubbler/Filler	☐ CW2 Combined Wast	e w/ Clean-out		RTH_	Recessed Tissue Holder
	•	☐ LW1 Thru-Wall Exten	sion, 'P'-Trap			OLOLF ORFOR
	FLH Ligature-resistant Lav. Filler		•		ISH	Integral Shelf
_		□ SLOW Slow Drain				Single Toothbrush Holder
6)	Flush Valve GPF (Must Specify):	_ CLOW Diam		_	.5.	
-		11) Toilet Wests:	-	П	TPO	
	1.28 GPF HET	11.) Toilet Waste:			1 BZ	Dual Toothbrush Holder
	1.6 GPF ULF (Standard)	☐ GWC Gasketed Waste		_	T 1 · · ·	
	3.5 GPF (3" waste tube required)	(Standard on EC	,		ГН1	Single Towel Hook
		☐ TWE Toilet Waste Ext	ension			□ L □ LF □ RF □ R
7.)	Lavatory Valve Selection:	(Standard on EC	CW)		TH2	Dual Towel Hook
	NV No Valve	☐ TW3 3" Clean-out for	(TWE)			□ L □ LF □ RF □ R
	PSL1 Single Temp. Pneumatic Non-metering	☐ TW4 Floor Outlet Was	ste Connection		DC	Decorator Color (Fixture exterior only - White)
	PSL2 Dual Temp. Pneumatic Non-metering	☐ TW5 4" Clean-out for				Hard-wired Transformer, 110VAC to 24VAC*
_	PML1 Single Temp. Pneumatic Metering	□ PC3 Pinned Clean-ou	, ,			Plug-in Transformer, 110VAC to 24VAC*
	PML2 Dual Temp. Pneumatic Metering	□ PCB3 Pinned Clean-ou	•			High Polish Seat
			-			9
	E1L1 Single Temp. Electronic (Pick Control)	PC4 Pinned Clean-ou	•		٧G	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area)
	E1L2 Dual Temp. Electronic (Pick Control)	PCB4 Pinned Clean-ou	•	_		L L LF L RF L R
	lve Manifold Options:		` ,			Wall Template
F	Pneumatic or Electronic Only:	□ COH4 4" Clean-out Ho			WS	Wall Sleeve (Requires Accessible Chase)
	□ MA2 □ MA3 □ MA4					Ligature-resistant Toilet Skirt, (ON) On-Floor Only
					TG	12 Gauge Cabinet
					TSC	Toilet Shipping Cover
		*(Req. 110V power through grour	nd fault			Front Access (For use when no chase exists)
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2696 Series 26" Wide Offset Toilet Bowl Combination Units



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" combination unit with offset right toilet, on floor, standard penal filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard 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-BP-1.6-PML2-PPB-EB-TWE-TWC3P-FV-FVT-WS

Recommended Specifications

26" offset toilet bowl combination lavatory/toilet 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
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- 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 bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" F.I.P.)
- Self-draining soap dish

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

Cabinet interior shall be sound deadened with fireresistant 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.

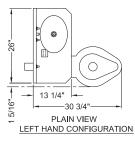
On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

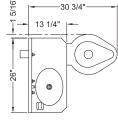
Note: For HET 1.28 GPF, unit will pass a 2" ball.



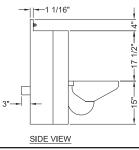
\perp											
1.) Toilet Waste Location:			8.)	Lavatory Pus	h Button Selection:	12.) Waste Coupling for (TWE) Toilet Waste Extension:					
	ECW	Wall Outlet		PPB Pneu	matic Push Buttons		TWC3	P Connecting to 3" PVC			
	ECF	Floor Outlet		PBH Ligatu	re-resistant Push Buttons		TWC3	Connecting to 3" Cast Iron			
				EPB Electr	onic Push Buttons		TWC4	P Connecting to 4" PVC			
2.)	Base I	Nodel Number:		EPBH Ligatu	ıre-resistant Electronic Push Buttons		TWC4	C Connecting to 4" Cast Iron			
	2696	26" Offset Lav-toilet Combination		PZPB Piezo	Electronic Push Buttons						
							•	Options:			
,		Orientation:	,	Electronic Co			T4	Manual Reset Toilet Overflow Preventer, Req. (FV)			
	L	Offset Left		•	ctronic Lavatory & Flush Valves):		T4A	Auto Reset Toilet Overflow Preventer, Req. (FV)			
	R	Offset Right		WUCC-3010	□Pneutronic □WMSII		ET4	Electronic Toilet Overflow Preventer,			
						_		Requires (EFV) & (WUCC-3010) or (WMSII)			
•		• Mounting:		.) Lavatory Wa			FV .	Hydraulic Flush Valve (Includes Push Button)			
	OF	Off-Floor (ECW Only)		EB	Elbow Waste (1-1/2" F.I.P.)		EFV	Electronic Flush Valve (Pick Control)			
ш	ON	On-Floor		DT	(Standard)			Electronic Flush Valve w/ (PZPB) (Pick Control)			
<i>-</i> \	Dubbl	or Calaction.		PT LWE	Integral 'P'-Trap (1-1/2" F.I.P.)		TFE FVT	Toilet Flush Extension			
,	BUDDI BP	er Selection: Penal Bubbler/Filler (Standard)		OV	Lavatory Waste Extension Lavatory Overflow		HS	Flush Valve Connection Hinged White Plastic Seat (Not recommended for			
		Code Bubbler/Filler (w/ Mouth Guard)		CW1	Combined Waste w/o Clean-out	_	по	Max. Security/Ligature-resistant use; No Cover)			
	BPH	Ligature-resistant Bubbler/Filler		CW2	Combined Waste w/ Clean-out		DTLI	Recessed Tissue Holder			
	FL	Penal Lav. Filler	_	LW1	Thru-Wall Extension, 'P'-Trap	_	17111_				
	FLH	Ligature-resistant Lav. Filler		LW2	Thru-Wall Extension & Clean-out		ISH	Integral Shelf			
_		Ligatare resistant Lav. Timer		SLOW	Slow Drain			Single Toothbrush Holder			
6.)	Flush	Valve GPF (Must Specify):	_	OLO II	Clow Brain	_					
-		SPF HET	11.) Toilet Waste	:		TB2	Dual Toothbrush Holder			
		PF ULF (Standard)		GWC	Gasketed Waste Connection			L			
		PF (3" waste tube required)			(Standard on ECF)		TH1	Single Towel Hook			
		, ,		TWE	Toilet Waste Extension		_	L L LF L RF L R			
7.)	Lavato	ry Valve Selection:			(Standard on ECW)		TH2	_Dual Towel Hook			
	NV	No Valve		TW3	3" Clean-out for (TWE)						
	PSL1	Single Temp. Pneumatic Non-metering		TW4	Floor Outlet Waste Connection		DC	Decorator Color (Fixture exterior only - White)			
	PSL2	Dual Temp. Pneumatic Non-metering		TW5	4" Clean-out for (TWE)		TF24H	Hard-wired Transformer, 110VAC to 24VAC*			
	PML1	Single Temp. Pneumatic Metering		PC3	Pinned Clean-out Plug PVC-3"		TF24P	Plug-in Transformer, 110VAC to 24VAC*			
	PML2	Dual Temp. Pneumatic Metering		PCB3	Pinned Clean-out Plug Brass-3"		HPS	High Polish Seat			
	E1L1	Single Temp. Electronic (Pick Control)		PC4	Pinned Clean-out Plug PVC-4"		VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in ² free area)			
		Dual Temp. Electronic (Pick Control)		PCB4	Pinned Clean-out Plug Brass-4"			□ L □ LF □ RF □ R			
		nifold Options:		WO3	3" Toilet 'P'-Trap (3.5 GPF Only)		MT	Wall Template			
I		tic or Electronic Only:		COH4	4" Clean-out Hook, 4" PVC Plug		WS	Wall Sleeve (Requires Accessible Chase)			
		MA2 MA3 MA4					SK	Ligature-resistant Toilet Skirt, (ON) On-Floor Only			
							TG	12 Gauge Cabinet			
				/D 44014	and the same of th		TSC	Toilet Shipping Cover			
			*		wer through ground fault		FA	Front Access (For use when no chase exists)			
_				ınterru	pter (GFCI) receptacle)		Other				
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WILLOUGHBY

3696 Series Handicap-ADA Compliant* 36" Wide (for 90° Chase) Combination Units





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 36" handicap combination unit with offset left toilet, on floor, standard penal filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard 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-BP-1.6-PML2-PPB-EB-TWE-TWC3P-GB4296-FV-FVT-WS

Recommended Specifications

36" handicap-ADA compliant* combination lavatory/toilet 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
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- 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 bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" F.I.P.)
- 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: For HET 1.28 GPF, 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.

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MODEL	NUMBER	OPT	IONS:
	IVOIVIDEIX	\sim	10110.

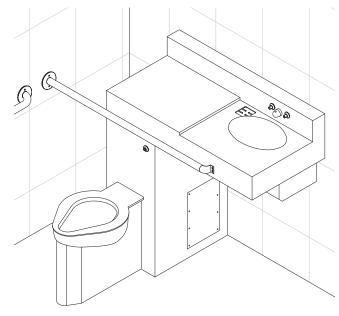
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1	l.) Toilet	Waste Location:	8.) I	Lavatory Push	Button Selection:	12.) Waste Coupling for (TWE) Toilet Waste Extension:							
Į	ECW	Wall Outlet	☐ PPB Pneumatic Push Buttons					☐ TWC3P Connecting to 3" PVC					
Į	⊒ ECF	Floor Outlet		PBH Ligatu	re-resistant Push Buttons		TWC3	Connecting to 3" Cast Iron					
				EPB Electro	onic Push Buttons		TWC4	IP Connecting to 4" PVC					
2	2.) Base I	Model Number:		EPBH Ligatu	re-resistant Electronic Push Buttons		TWC ²	Connecting to 4" Cast Iron					
Į	3696	36" Handicap* Lav-toilet Combination		PZPB Piezo	Electronic Push Buttons								
						13.) Grab	Bar Option:					
3	3.) Toilet	Orientation:	9.) I	Electronic Co	ntrols*		GB42	96 42" ADA Grab Bar (Req. for ADA Compliance)*					
Į	l L	Offset Left	(1	Must Use Elec	tronic Lavatory & Flush Valves):								
Į	⊒ R	Offset Right		WUCC-3010	□Pneutronic □WMSII	14.) Other	r Options:					
							T4	Manual Reset Toilet Overflow Preventer, Req. (FV)					
4	l.) Fixtur	Mounting:	10.)	Lavatory Was	ste:		T4A	Auto Reset Toilet Overflow Preventer, Req. (FV)					
Į	□ OF	Off-Floor (ECW Only, no ligature-		EB	Elbow Waste (1-1/2" F.I.P.)		ET4	Electronic Toilet Overflow Preventer,					
		resistant toilet skirt)			(Standard)			Requires (EFV) & (WUCC-3010) or (WMSII)					
Į	□ ON	On-Floor		PT	Integral 'P'-Trap (1-1/2" F.I.P.)		FV	Hydraulic Flush Valve (Includes Push Button)					
				LWE	Lavatory Waste Extension		EFV	Electronic Flush Valve (Pick Control)					
į	i.) Bubbl	er Selection:		OV	Lavatory Overflow		EFVP	Electronic Flush Valve w/ (PZPB) (Pick Control)					
Į	⊒ BP	Penal Bubbler/Filler (Standard)		CW1	Combined Waste w/o Clean-out		TFE	Toilet Flush Extension					
Į	⊒ вс	Code Bubbler/Filler (w/ Mouth Guard)		CW2	Combined Waste w/ Clean-out		FVT	Flush Valve Connection					
[BPH	Ligature-resistant Bubbler/Filler		LW1	Thru-Wall Extension, 'P'-Trap		HS	Hinged White Plastic Seat (Not recommended for					
Ę] FL	Penal Lav. Filler		LW2	Thru-Wall Extension & Clean-out			Max. Security/Ligature-resistant use; No Cover)					
	FLH	Ligature-resistant Lav. Filler		SLOW	Slow Drain		RTH	Recessed Tissue Holder (Not ADA Compliant)					
•		Ligataro rociotarii Lati i iiio	_	020	5.5.t. 5.a	_		(Underneath Lav. Bowl)					
6	() Flush	Valve GPF (Must Specify):	11 \	Toilet Waste:			TB1	Single Toothbrush Holder (Opposite Toilet)					
	-	SPF HET		GWC	Gasketed Waste Connection		TB2	Dual Toothbrush Holder (Opposite Toilet)					
		PF ULF (Standard)	_	0110	(Standard on ECF)		TH1	Single Towel Hook (Opposite Toilet)					
		,		TWE	Toilet Waste Extension		TH2	,					
٠	J 3.5 G	PF (3" waste tube required)		IVVE			DC	Dual Towel Hook (Opposite Toilet) Decorator Color (Fixture exterior only - White)					
	7 \ 1			TMO	(Standard on ECW)			,					
	,	ory Valve Selection:		TW3	3" Clean-out for (TWE)			Hard-wired Transformer, 110VAC to 24VAC*					
	NV DOLL	No Valve		TW4	Floor Outlet Waste Connection			P Plug-in Transformer, 110VAC to 24VAC*					
		Single Temp. Pneumatic Non-metering		TW5	4" Clean-out for (TWE)		HPS	High Polish Seat					
		Dual Temp. Pneumatic Non-metering		PC3	Pinned Clean-out Plug PVC-3"		VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area)					
		Single Temp. Pneumatic Metering		PCB3	Pinned Clean-out Plug Brass-3"			□ L □ R					
		Dual Temp. Pneumatic Metering		PC4	Pinned Clean-out Plug PVC-4"		MT	Wall Template					
		Single Temp. Electronic (Pick Control)		PCB4	Pinned Clean-out Plug Brass-4"		WS	Wall Sleeve (Requires Accessible Chase)					
		Dual Temp. Electronic (Pick Control)		WO3	3" Toilet 'P'-Trap (3.5 GPF Only)		LSK	Less Ligature-resistant Toilet Skirt					
١	/alve Ma	nifold Options:		COH4	4" Clean-out Hook, 4" PVC Plug		TG	12 Gauge Cabinet					
	Pneuma	tic or Electronic Only:					TSC	Toilet Shipping Cover					
		MA2 MA3 MA4					PSL1	-DMB Deck Mounted Bubbler/Filler**					
							PSL1	-DMBH Ligature-resistant DM Bubbler/Filler**					
			*(er through ground fault			**(Panel Mounted Push Button)					
				interrup	oter (GFCI) receptacle)		Other						
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3696-FA Series Front Access Handicap-ADA Compliant* 36" Wide (for 90° Chase) Combination Units





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 36" handicap combination unit with offset left toilet, standard penal filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard 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-BP-1.6-PML2-PPB-RPT-GWC-GB4296-FV-MT

Recommended Specifications

Front access 36" handicap-ADA compliant* combination lavatory/ toilet 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
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- 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 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: For HET 1.28 GPF, 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.

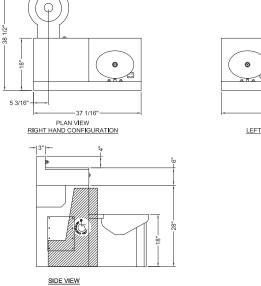
2.) (RTH)- Recessed Tissue Holder option is not ADA Compliant.

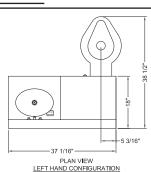
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1.) Toilet Waste Location:				8.) Lavatory Push Button Selection:					13.) Grab Bar Options:				
•	□ ECW Wall Outlet		□ PPB Pneumatic Push Buttons					•	96 42" ADA Grab Bar (Reg. for ADA Compliance)				
	ECF	Floor Outlet				re-resistant Push Buttons	_	OD4Z	30 42 ADA Ciab bai (Req. 101 ADA Compliance)				
_	20.	1 loci oddot	_	,	-	onic Push Buttons	14) Othe	r Options:				
21	Base Mode	ol Number:	_			re-resistant Electronic Push Buttons		•	Manual Reset Toilet Overflow Preventer, Req. (FV				
,	3696-FA	36" Front Access Handicap*	_	,	0	Electronic Push Buttons		T4A	Auto Reset Toilet Overflow Preventer, Req. (FV)				
_	0000170	Lav-toilet Combination	_	1210 11	020	Licetionio i dan Editoria			Electronic Toilet Overflow Preventer,				
		Eav tollet combiliation	9.)	Electronic	: Coi	ntrols*	_		Requires (EFV) & (WUCC-3010) or (WMSII)				
3.)	Toilet Orie	ntation:	•			tronic Lavatory & Flush Valves):		FV	Hydraulic Flush Valve (Includes Push Button)				
•		set Left		•		□Pneutronic □WMSII	_	EFV	Electronic Flush Valve (Pick Control)				
		set Right	_				_		Electronic Flush Valve w/ (PZPB) (Pick Control)				
_	0	oct rugini	10) Lavatory	Was	ste:	_	HS	Hinged White Plastic Seat (Not recommended for				
4)	Fixture Mo	unting:		RPT	•••	Removable 'P'-Trap (1-1/2" N.P.T.)	_	110	Max. Security/Ligature-resistant use; No Cover)				
•		-Floor	_			(Standard)		RTH	Recessed Tissue Holder (Not ADA Compliant)				
_	011 011	11001		OV		Lavatory Overflow	_		(Underneath Lav. Bowl)				
5)	Bubbler Se	election:	_	CW1		Combined Waste w/o Clean-out	П	TB1	Single Toothbrush Holder				
•		nal Bubbler/Filler (Standard)	_	CW2		Combined Waste w/ Clean-out	_	151	(Located beside Lav. Bowl, opposite Toilet)				
		de Bubbler/Filler (w/ Mouth Guard)	_	SLOW		Slow Drain		TB2	Dual Toothbrush Holder				
		ature-resistant Bubbler/Filler	_	02011		5.5 <u>5.a</u>	_		(Located beside Lav. Bowl, opposite Toilet)				
	U	nal Lav. Filler	11.) Toilet Wa	ste:			TH1	Single Towel Hook				
		ature-resistant Lav. Filler		GWC		Gasketed Waste Connection	_		(Located beside Lav. Bowl, opposite Toilet)				
	g.					(Standard)		TH2	Dual Towel Hook				
6.)	Flush Valve	e GPF (Must Specify):		TWE		Toilet Waste Extension	_		(Located beside Lav. Bowl, opposite Toilet)				
•	1.28 GPF					(Requires Accessible Chase)		DC	Decorator Color (Fixture exterior only - White)				
		LF (Standard)		TW4		Floor Outlet Waste Connection			H Hard-wired Transformer, 110VAC to 24VAC*				
		B" waste tube required)		WO3		3" Toilet 'P'-Trap (3.5 GPF Only)			Plug-in Transformer, 110VAC to 24VAC*				
						тар (от от от,)		HPS	High Polish Seat				
7.)	Lavatory V	alve Selection:	12.) Waste Co	lauo	ing for (TWE) Toilet Waste	_	VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area)				
•	•	Valve		Extension					□ L □ R				
				TWC3P		Connecting to 3" PVC		MT	Wall Template				
		al Temp. Pneumatic Non-metering		TWC3C		Connecting to 3" Cast Iron		WS	Wall Sleeve (Requires Accessible Chase)				
		gle Temp. Pneumatic Metering		TWC4P		Connecting to 4" PVC		LSK	Less Ligature-resistant Toilet Skirt				
		al Temp. Pneumatic Metering		TWC4C		Connecting to 4" Cast Iron		TG	12 Gauge Cabinet				
		gle Temp. Electronic (Pick Control)				3		TSC	Toilet Shipping Cover				
		al Temp. Electronic (Pick Control)						PSL1					
		, ,							-DMBH Ligature-resistant DM Bubbler/Filler** **(Panel Mounted Push Button)				
								Other	,				
							_	Other					
							_		10V power through ground fault				
								(1 toq. 1	interrupter (GFCI) receptacle)				
Г	Approved	For Manufacturing By:				Date:			Company:				

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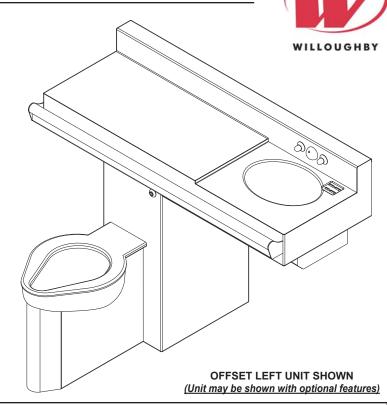


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4896 Series Ligature-resistant Handicap-ADA Compliant 49" Wide (90° Chase) Combination Units





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 filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant 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-BPH-1.6-PML2-PBH-EB-SLOW-TWE-TWC3P-FV-FVT-WS

Recommended Specifications

Ligature-resistant Handicap-ADA Compliant 49" Wide (90° Chase) Combination Lavatory/Toilet 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
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- 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
- -Self-draining soap dish
- Elbow waste (1-1/2" F.I.P.)

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 fireresistant 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: For HET 1.28 GPF, unit will pass a 2" ball.

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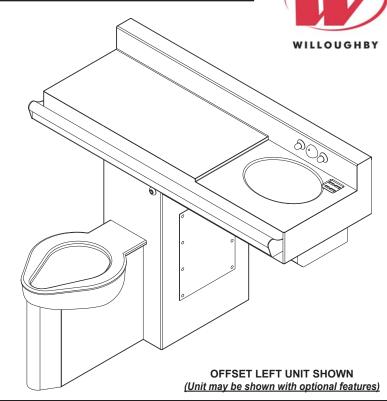
© Rev. 9/2017 \$1-25

1.)	Toilet \	Vaste Location:	8.)	Lavatory Push	Button Selection:	12.) Waste	e Coupling for (TWE) Toilet Waste Extension:
	ECW	Wall Outlet	oʻ.	PBH Ligatur	re-resistant Push Buttons		TWC	
	ECF	Floor Outlet		EPBH Ligatur	re-resistant Electronic Push Buttons		TWC3	Connecting to 3" Cast Iron
				PZPB Piezo	Electronic Push Buttons		TWC4	IP Connecting to 4" PVC
2.)	Base N	lodel Number:					TWC4	Connecting to 4" Cast Iron
	4896	Ligature-resistant Handicap-ADA	9.)	Electronic Co	ntrols*			
		Compliant 49" Wide (90°Chase)	(Must Use Elec	tronic Lavatory & Flush Valves):	13.) Other	Options:
		Combination Lav./Toilet		WUCC-3010	□Pneutronic □WMSII		T4	Manual Reset Toilet Overflow Preventer, Req. (FV)
							T4A	Auto Reset Toilet Overflow Preventer, Req. (FV)
3.)	Toilet 0	Orientation:	10.)	Lavatory Was	ste:		ET4	Electronic Toilet Overflow Preventer,
	L	Offset Left		EB	Elbow Waste (1-1/2" F.I.P.)			Requires (EFV) & (WUCC-3010) or (WMSII)
	R	Offset Right			(Standard)		FV	Hydraulic Flush Valve (Includes Push Button)
					Integral 'P'-Trap (1-1/2" F.I.P.)		EFV	Electronic Flush Valve (Pick Control)
		Mounting:		LWE	Lavatory Waste Extension			Electronic Flush Valve w/ (PZPB) (Pick Control)
	ON	On-Floor		OV	Lavatory Overflow		HS	Hinged White Plastic Seat (Not recommended for
- \	D. L.L.	on Onland and		CW1	Combined Waste w/o Clean-out			Max. Security/Ligature-resistant use; No Cover)
•		er Selection:		CW2	Combined Waste w/ Clean-out		TFE	Toilet Flush Extension
ш	BPH	Ligature-resistant Bubbler/Filler		LW1	Thru-Wall Extension, 'P'-Trap		FVT	Flush Valve Connection
		(Standard)		LW2	Thru-Wall Extension & Clean-out		RTH	Recessed Tissue Holder (Not ADA Compliant)
ш	FLH	Ligature-resistant Lav. Filler		SLOW	Slow Drain (Standard)		TD4	(Underneath Lav. Bowl)
e 1	Eluah V	John CDE (Must Specific)	44.1	Tailet Wests			TB1	Single Toothbrush Holder (Not Ligature-resistant),
-		/alve GPF (Must Specify): GPF HET		Toilet Waste: GWC		П	TDO	(Located beside Lav. Bowl, opposite Toilet)
			ш	GWC	Gasketed Waste Connection		TB2	Dual Toothbrush Holder (Not Ligature-resistant),
		PF ULF (Standard)		TWE	(Standard on ECF)	П	TH1	(Located beside Lav. Bowl, opposite Toilet)
ш	3.5 GI	PF (3" waste tube required)	_	IVVE	Toilet Waste Extension		іпі	Single Towel Hook
7 1	Lavoto	ry Valve Selection:		TW3	(Standard on ECW) 3" Clean-out for (TWE)		TH2	(Located beside Lav. Bowl, opposite Toilet) Dual Towel Hook
•	NV	No Valve		TW4	Floor Outlet Waste Connection	_	ПΠΖ	(Located beside Lav. Bowl, opposite Toilet)
		Single Temp. Pneumatic Non-metering	_	TW5	4" Clean-out for (TWE)		DC	Decorator Color (Fixture exterior only - White)
_		Dual Temp. Pneumatic Non-metering		PC3	Pinned Clean-out Plug PVC-3"			Hard-wired Transformer, 110VAC to 24VAC*
		Single Temp. Pneumatic Metering	_	PCB3	Pinned Clean-out Plug Brass-3"			Plug-in Transformer, 110VAC to 24VAC*
		Dual Temp. Pneumatic Metering		PC4	Pinned Clean-out Plug PVC-4"		HPS	High Polish Seat
		Single Temp. Electronic (Pick Control)	_	PCB4	Pinned Clean-out Plug Brass-4"		MT	Wall Template
		Dual Temp. Electronic (Pick Control)		WO3	3" Toilet 'P'-Trap (3.5 GPF Only)		WS	Wall Sleeve (Requires Accessible Chase)
		nifold Options:		COH4	4" Clean-out Hook, 4" PVC Plug		TG	12 Gauge Cabinet
		tic or Electronic Only:			,		TSC	Toilet Shipping Cover
		MA2 MA3 MA4					LSK	Less Ligature-resistant Toilet Skirt
							PSL1-	-DMBH Ligature-resistant DM Bubbler/Filler**
			*(Req. 110V pow	er through ground fault			**(Panel Mounted Push Button)
				interrup	oter (GFCI) receptacle)		Other	
							Other	
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VEDIEV ALL DIMENSIONS WITH EACTORY DRICE TO BOLIGH-IN	WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.		vii	eit our wol	side view (LEI Dsite at www.willoughby-			20000

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4896-FA Series
Front Access
Ligature-resistant
Handicap-ADA Compliant
49" Wide (90° Chase)
Combination Units





Recommended Specifications

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

Example: To specify a Front Access Ligature-resistant Handicap-ADA Compliant 49" Wide (90° Chase) Combination Lavatory/Toilet with wall outlet, offset left toilet, standard ligature-resistant filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant push buttons, removable lav. 'p' trap, lav. slow drain, toilet waste extension, standard gasketed waste connection, hydraulic flush valve, and wall template

Use the following Willoughby Model Number: ECW-4896-FA-L-ON-BPH-1.6-PML2-PBH-RPT-SLOW-GWC-FV-MT

Front Access Ligature-resistant Handicap-ADA Compliant 49" Wide (90° Chase) Combination Lavatory/Toilet 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
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- 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 -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.

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.

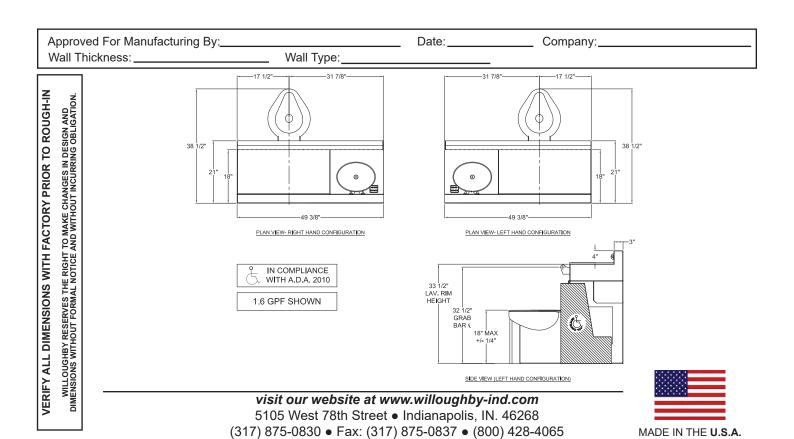
Note: For HET 1.28 GPF, unit will pass a 2" ball.



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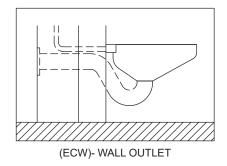
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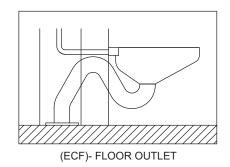
1.) Toilet Waste Location:		8.)	Lavatory Pus	h Button Selection:	13.) Other Options:				
	ECW	Wall Outlet		PBH Ligatu	re-resistant Push Buttons		T4	Manual Reset Toilet Overflow Preventer, Req. (FV	
	ECF	Floor Outlet		EPBH Ligatu	re-resistant Electronic Push Buttons		T4A	Auto Reset Toilet Overflow Preventer, Req. (FV)	
				PZPB Piezo	Electronic Push Buttons		ET4	Electronic Toilet Overflow Preventer,	
2.)	Base N	lodel Number:						Requires (EFV) & (WUCC-3010) or (WMSII)	
	4896-	FA Front Access Ligature-resistant	9.)	Electronic Co	ntrols*		FV	Hydraulic Flush Valve (Includes Push Button)	
		Handicap-ADA Compliant 49" Wide	(Must Use Ele	ctronic Lavatory & Flush Valves):		EFV	Electronic Flush Valve (Pick Control)	
		(90°Chase) Combination Lav./Toilet		WUCC-3010	□Pneutronic □WMSII		EFVP	Electronic Flush Valve w/ (PZPB) (Pick Control)	
							HS	Hinged White Plastic Seat (Not recommended for	
3.)	Toilet (Orientation:	10.) Lavatory Wa	ste:			Max. Security/Ligature-resistant use; No Cover)	
	L	Offset Left		RPT	Removable 'P'-Trap (1-1/2" N.P.T.)		RTH	Recessed Tissue Holder (Not ADA Compliant)	
	R	Offset Right			(Standard)			(Underneath Lav. Bowl)	
		-		OV	Lavatory Overflow		TB1	Single Toothbrush Holder (Not Ligature-resistant),	
4.)	Fixture	Mounting:		CW1	Combined Waste w/o Clean-out			(Located beside Lav. Bowl, opposite Toilet)	
	ON	On-Floor		CW2	Combined Waste w/ Clean-out		TB2	Dual Toothbrush Holder (Not Ligature-resistant),	
				SLOW	Slow Drain (Standard)			(Located beside Lav. Bowl, opposite Toilet)	
5.)	Bubble	er Selection:					TH1	Single Towel Hook	
	BPH	Ligature-resistant Bubbler/Filler	11.)	Toilet Waste	:			(Located beside Lav. Bowl, opposite Toilet)	
		(Standard)		GWC	Gasketed Waste Connection		TH2	Dual Towel Hook	
	FLH	Ligature-resistant Lav. Filler			(Standard)			(Located beside Lav. Bowl, opposite Toilet)	
				TWE	Toilet Waste Extension		DC	Decorator Color (Fixture exterior only - White)	
6.)	Flush \	/alve GPF (Must Specify):			(Requires Accessible Chase)		TF24H	Hard-wired Transformer, 110VAC to 24VAC*	
	1.28	SPF HET		TW4	Floor Outlet Waste Connection		TF24P	Plug-in Transformer, 110VAC to 24VAC*	
	1.6 GF	PF ULF (Standard)		WO3	3" Toilet 'P'-Trap (3.5 GPF Only)		HPS	High Polish Seat	
	3.5 GF	PF (3" waste tube required)					MT	Wall Template	
			12.) Waste Coup	ling for (TWE) Toilet Waste		WS	Wall Sleeve (Requires Accessible Chase)	
7.)	Lavato	ry Valve Selection:		Extension:			TG	12 Gauge Cabinet	
	NV	No Valve		TWC3P	Connecting to 3" PVC		TSC	Toilet Shipping Cover	
	PSL1	Single Temp. Pneumatic Non-metering		TWC3C	Connecting to 3" Cast Iron		LSK	Less Ligature-resistant Toilet Skirt	
	PSL2	Dual Temp. Pneumatic Non-metering		TWC4P	Connecting to 4" PVC		PSL1-	DMBH Ligature-resistant DM Bubbler/Filler**	
	PML1	Single Temp. Pneumatic Metering		TWC4C	Connecting to 4" Cast Iron			**(Panel Mounted Push Button)	
	PML2	Dual Temp. Pneumatic Metering					Other		
	E1L1	Single Temp. Electronic (Pick Control)	*(ver through ground fault		Other		
	☐ E1L2 Dual Temp. Electronic (Pick Control) interrupter (GFCI) receptacle)								



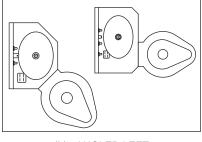


TOILET WASTE LOCATION

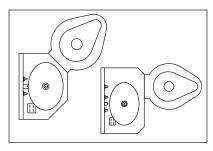




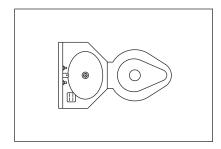
TOILET ORIENTATION



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

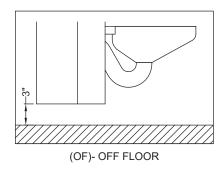


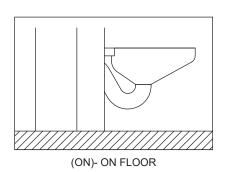
(R)- ANGLED RIGHT (R)- OFFSET RIGHT



(C)- CENTER

FIXTURE MOUNTING

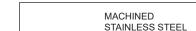




MADE IN THE U.S.A.

LAVATORY BUBBLER SELECTION

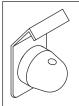






PENAL BUBBLER / FILLER PROVIDES A FLOW OF WATER FOR DRINKING AND FILLING THE BASIN.

(BP)- PENAL BUBBLER / FILLER



MACHINED STAINLESS STEEL

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

(BC)- CODE BUBBLER / FILLER





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

(BPH)- LIGATURE-RESISTANT BUBBLER / FILLER





LAVATORY FILLER PROVIDES A FLOW OF WATER TO THE LAVATORY BASIN ONLY.

(FL)- PENAL LAV. 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



DECK MOUNTED BUBBLER / FILLER PROVIDES A FLOW OF WATER FOR DRINKING AND FILLING THE BASIN.

(DMB)- DECK MOUNTED BUBBLER /

MACHINED STAINLESS STEEL



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

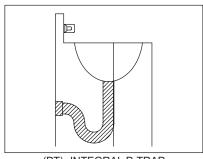
(DMBH)- LIGATURE-RESISTANT DECK MOUNTED BUBBLER / FILLER

LAVATORY WASTE

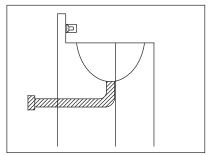




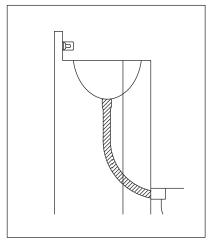
(EB)- ELBOW WASTE (1-1/2" F.I.P.)



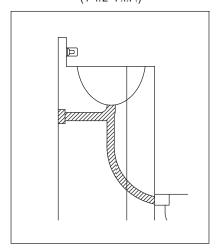
(PT)- INTEGRAL P-TRAP (1-1/2" F.I.P.)



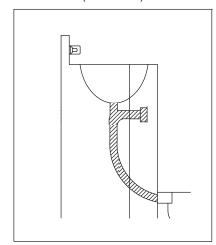
(LWE)- LAVATORY WASTE EXTENSION (1-1/2" F.I.P.)



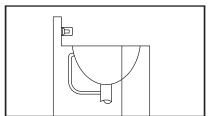
(CW1)- COMBINED WASTE W/O CLEANOUT (CHECK CODES FOR ACCEPTANCE)



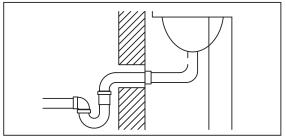
(CW2)- COMBINED WASTE W/ CLEANOUT (1-1/2" F.I.P.) (CHECK CODES FOR ACCEPTANCE)



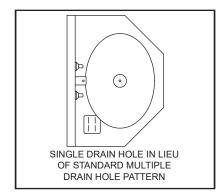
(CW2) FOR "FA"- COMBINED WASTE W/ "FA" CLEANOUT (1-1/2" F.I.P.) (CHECK CODES FOR ACCEPTANCE)



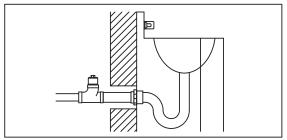
(OV)- LAVATORY OVERFLOW



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



(SLOW)- SLOW DRAIN



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



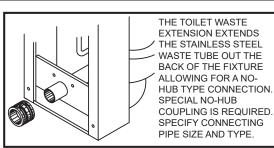
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TOILET WASTE

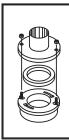




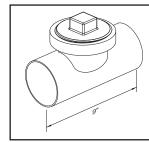
(TWE)- TOILET WASTE EXTENSION



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



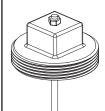
TOILET WASTE CONNECTION, SUPPLIED COMPLETE WITH Ø5-1/4" NEOPRENE GASKET, 5/16" ANCHOR STUDS AND 4" x 4" FLOOR FLANGE.



TOILET WASTE CONNECTION SUPPLIED COMPLETE WITH 4" CAST IRON NO-HUB TEST TEE AND PLUG

(TW4) FLOOR OUTLET WASTE CONNECTION

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



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.



REQUIRES A 3.5 GPF FLUSH VALVE TO OPERATE. WASTE OUTLET

OF A Ø2-1/8" BALL.

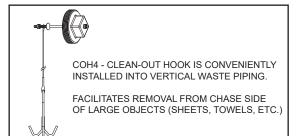
ROUGH-IN WILL REMAIN IN THE SAME STANDARD LOCATION.

A 3" O.D. TOILET BOWL 'P' TRAP IN

LIEU OF STANDARD 2-1/2" O.D. 'P'

TRAP ALLOWING FOR PASSAGE



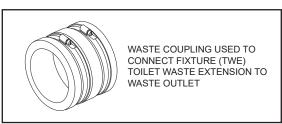


(COH4) CLEAN-OUT HOOK

(WO3) TOILET 'P'-TRAP (3.5 GPF ONLY)



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

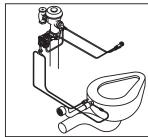


(TWC)- TOILET WASTE COUPLING

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

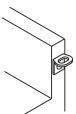
(T4)- MANUAL RESET TOP FOUR OVERFLOW PREVENTER (REQUIRES HYDRAULIC FLUSH VALVE)



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

(AVAILABLE IN WHITE)

(HS)- HINGED PLASTIC SEAT



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



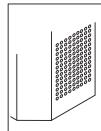
JACKSON CONTROL OR EQUIVALENT 24VAC, 40A TRANSFORMER.

(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.

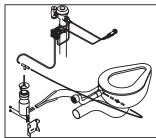
(TF24)- TRANSFORMER, 110VAC TO 24VAC



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).

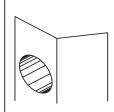
(MUST SPECIFY LOCATION AND FREE AREA REQUIREMENTS.)

(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.

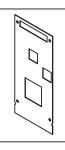
(MUST SPECIFY LOCATION)

(TH1__)- SINGLE TOWEL HOOK (TH2_)- DUAL TOWEL HOOK



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

(HPS)- HIGH POLISH SEAT



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



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OTHER OPTIONS (CONTINUED)



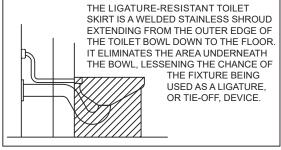


CONSTRUCTED OF 20 GA. GALVANIZED STEEL, WALL SLEEVES PROVIDE FIXTURE PLUMBING ROUGH-IN OPENINGS IN BLOCK/POURED CONCRETE WALLS, BECOMING A PERMANENT PART OF THE WALL

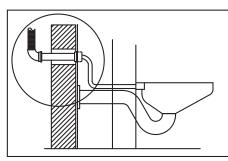
THE Ø1/2" STEEL RODS WELDED TO THE FRAME PROVIDE RIGIDITY AND HINDER ESCAPE INTO THE CHASE SHOULD THE FIXTURE BE REMOVED.

(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, 1.6 GPF, AND 1.28 GPF.

(SEE S11-SUPPLEMENTAL INFORMATION)

(FV)- FLUSH VALVE

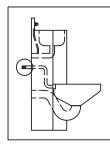


PROVIDES WATER SUPPLY CONTROL FOR FLUSHING WATER CLOSETS. DELANY, SLOAN, AND ZURN FLUSH VALVES ARE COMPATIBLE WITH WILLOUGHBY UNITS.

FLUSH VALVES ARE AVAILABLE IN 3.5 GPF, 1.6 GPF, AND 1.28 GPF.

(SEE S11-SUPPLEMENTAL INFORMATION)

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

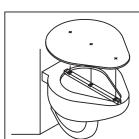


S1-34

1-1/2" MALE I.P.S. FLUSHING INLET EXTENSION, EXTENDS FLUSH VALVE CONNECTION BEYOND BACK OF FIXTURE.

MUST SPECIFY LENGTH.

(TFE)- TOILET FLUSH EXTENSION



THIS OPTION PROVIDES A STAINLESS STEEL SHIPPING COVER FOR TOILET BOWLS.

COVERS ARE DESIGNED TO LIMIT POSSIBLE INSERTION OF FOREIGN MATERIAL INTO THE FIXTURE PRIOR TO FACILITY STARTUP.

(TSC)- TOILET SHIPPING COVER

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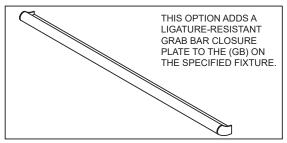
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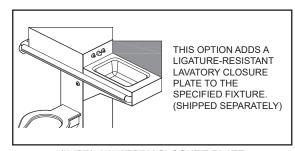
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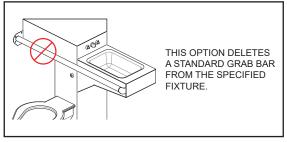
OTHER OPTIONS (CONTINUED)



(GBC)- GRAB BAR CLOSURE PLATE



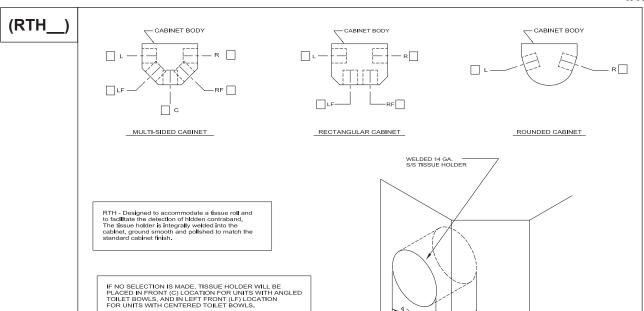
(LVCP)- LAVATORY CLOSURE PLATE

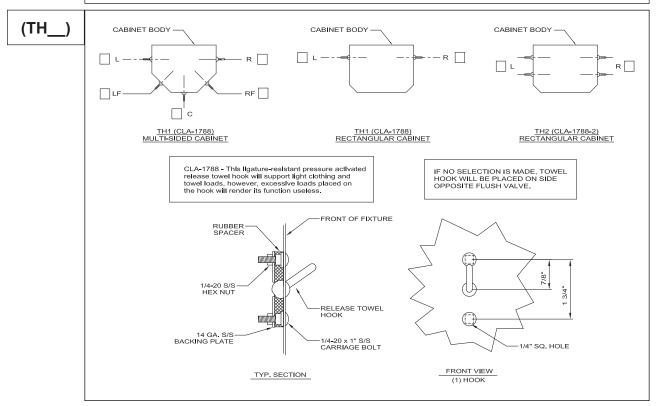


(LGB)- LESS GRAB BAR (ON (GB)-STANDARD COMBI)



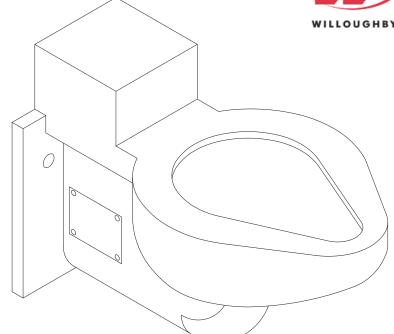
PLACEMENT DIAGRAMS







ETW-1490-CM Wall Outlet Carrier Mounted (3-bolt) Blowout Series Water Closet



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

Come may be snown with optional reaturesy

Example: To specify a Wall Outlet, 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

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



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

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

Recommended Specifications

Wall Outlet, Carrier Mounted (3-bolt), 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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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.

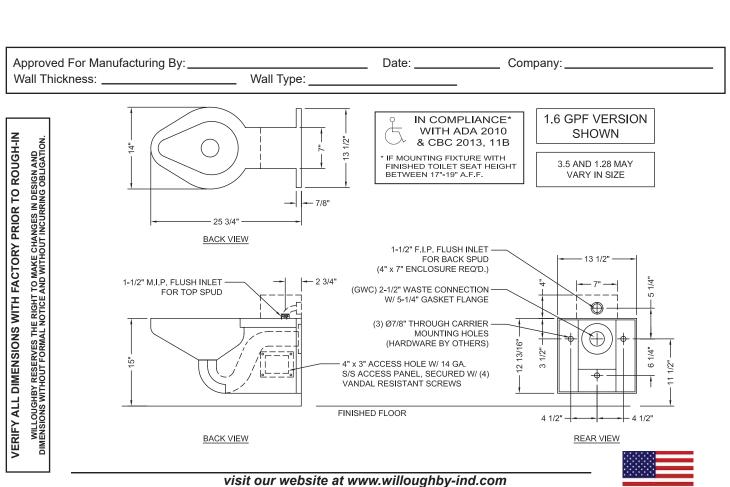
Note: For HET 1.28 GPF, unit will pass a 2" ball.



S2-1

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[Other Options CONTINUED:] 1.) Base Model Number: ☐ ETW-1490-CM Wall Outlet, Carrier Mounted (3-bolt), Blowout Series Toilet ☐ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only) Ligature-resistant ADA Flush Valve Cover (Top Spud Only) 2.) Inlet Location: ☐ ASFVCADA Back Spud Flush Valve Access Panel (Allows access to chase-mounted □ BS □ AP □ TS Top Spud flush valve from fixture side) Hinged White Plastic Seat (No Cover, not recommended ☐ HS 3.) Flush Valve GPF (Must Specify): for Maximum Security/Ligature-resistant use) ■ 1.28 GPF HET ☐ DC Decorator Color (Fixture exterior only - White) Hard-wired Transformer, 110VAC to 24VAC* ☐ 1.6 GPF ULF (Standard) ☐ TF24H 3.5 GPF (3" waste tube required) ☐ TF24P Plug-in Transformer, 110VAC to 24VAC* HPS High Polish Seat 4.) Toilet Waste: ☐ TSC Toilet Shipping Cover ☐ GWC Gasketed Waste Connection (Standard) RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase) 5.) Other Options: RTH2 Wall Mounted Recessed Tissue Holder Manual Reset Toilet Overflow Preventer, Requires: (Front Mounted, 4-1/2" Depth) □ T4 (FV) Hydraulic Flush Valve and Accessible Chase ☐ Other □ T4A Auto Reset Toilet Overflow Preventer, Requires: □ Other (FV) Hydraulic Flush Valve and Accessible Chase Electronic Toilet Overflow Preventer*, Requires (EFV), 6.) Electronic Controls* (Must Use Electronic Flush Valve): □ ET4 Accessible Chase, & (WUCC-3010) or (WMSII) control ■ WUFC-4000 Pneutronic ■ WMSII ☐ FV Hydraulic Flush Valve (Includes Actuator) ■ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory ☐ EFV Electronic Flush Valve (Pick Control)* or if the Toilet is selected with an (ET4) overflow option) ☐ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)* ☐ FVT Flush Valve Connection (Back Spud Only) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) [CONTINUED IN NEXT COLUMN:]



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ETW-1490-ES Wall Outlet Compact Blowout Series Water Closet



IN COMPLIANCE WITH A.D.A. 2010

* 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 Wall Outlet, Compact Blowout Series Toilet with standard 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: ETW-1490-ES-BS-1.6-TWE-TWC3P-FV-FVT-HPS-WS-TSC

Recommended Specifications

Wall Outlet, Compact 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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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: For HET 1.28 GPF, unit will pass a 2" ball.



MODEL NOMBL	TAND OF HORO.
1.) Base Model Number:	6.) Other Options:
☐ ETW-1490-ES Wall Outlet, Compact Blowout Series Toilet	☐ T4 Manual Reset Toilet Overflow Preventer, Requires:
	(FV) Hydraulic Flush Valve and Accessible Chase
2.) Inlet Location:	☐ T4A Auto Reset Toilet Overflow Preventer, Requires:
☐ BS Back Spud	(FV) Hydraulic Flush Valve and Accessible Chase
	☐ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV),
3.) Flush Valve GPF (Must Specify):	Accessible Chase, & (WUCC-3010) or (WMSII) control
1.28 GPF HET	FV Hydraulic Flush Valve (Includes Actuator)
1.6 GPF ULF (Standard)	☐ EFV Electronic Flush Valve (Pick Control)*
☐ 3.5 GPF (3" waste tube required)	☐ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*
4.) Toilet Waste:	☐ TFE Toilet Flush Extension ☐ FVT Flush Valve Connection (Back 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)	DC Decorator Color (Fixture exterior only - White)
☐ GWC Gasketed Waste Connection	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*
WO3 3" Toilet 'P' Trap (3.5 GPF Only)	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
☐ PC3 Pinned Clean-out Plug PVC-3"	☐ HPS High Polish Seat
☐ PCB3 Pinned Clean-out Plug Brass-3"	☐ MT Wall Template
☐ PC4 Pinned Clean-out Plug PVC-4"	☐ WS Wall Sleeve (Requires Accessible Chase)
☐ PCB4 Pinned Clean-out Plug Brass-4"	☐ TSC Toilet Shipping Cover
☐ COH4 4" Clean-out Hook, 4" PVC Plug	RTH1 Wall Mounted Recessed Tissue Holder
	(Rear Mounted, Requires Accessible Chase)
5.) Waste Coupling for (TWE) Toilet Waste Extension:	RTH2 Wall Mounted Recessed Tissue Holder
TWC3P Connecting to 3" PVC	(Front Mounted, 4-1/2" Depth)
☐ TWC3C Connecting to 3" Cast Iron ☐ TWC4P Connecting to 4" PVC	☐ Other
☐ TWC4P Connecting to 4" PVC ☐ TWC4C Connecting to 4" Cast Iron	U Other
1 WO40 Connecting to 4 Cast non	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)
Approved For Manufacturing By:	Date: Company:
Wall Thickness: Wall Type:	
18 1/2" —	
NO SEA	1.6 GPF VERSION SHOWN, 3.5 AND 1.28 MAY VARY
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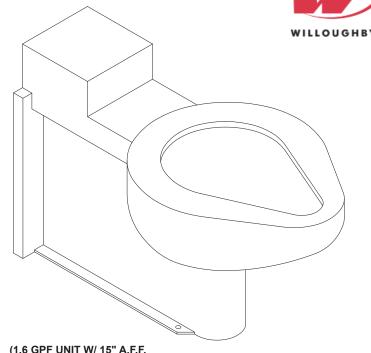
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ETW-1490-FM Wall Outlet Floor Mounted Blowout Series Water Closet



* 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 aWall Outlet, 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

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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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: For HET 1.28 GPF, unit will pass a 2" ball.



1.) Base Model Number:	7.) Other Options:
ETW-1490-FM Wall Outlet, Floor Mounted, Blowout Series Toilet	T4 Manual Reset Toilet Overflow Preventer, Requires:
2.) Inlet Location:	(FV) Hydraulic Flush Valve and Accessible Chase☐ T4A Auto Reset Toilet Overflow Preventer, Requires:
BS Back Spud	(FV) Hydraulic Flush Valve and Accessible Chase
TS Top Spud	☐ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV),
	Accessible Chase, & (WUCC-3010) or (WMSII) control
3.) Toilet Seat Height:	FV Hydraulic Flush Valve (Includes Actuator)
☐ 15" Seat Height (Standard) ☐ HC 18" Seat Height, Handicap-ADA Compliant	☐ EFV Electronic Flush Valve (Pick Control)* ☐ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*
The Seat Height, Handicap-ADA Compliant	TFE Toilet Flush Extension
4.) Flush Valve GPF (Must Specify):	☐ FVT Flush Valve Connection (Back Spud Only)
☐ 1.28 GPF HET	☐ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
1.6 GPF ULF (Standard)	ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
☐ 3.5 GPF (3" waste tube required)	AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
5.) Toilet Waste:	☐ HS Hinged White Plastic Seat (No Cover, not recommended
☐ TWE Toilet Waste Extension (Standard)	for Maximum Security/Ligature-resistant use)
TW3 3" Clean-out for (TWE)	DC Decorator Color (Fixture exterior only - White)
☐ TW5 4" Clean-out for (TWE)	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*
GWC Gasketed Waste Connection	TF24P Plug-in Transformer, 110VAC to 24VAC*
□ WO3 3" Toilet 'P' Trap (3.5 GPF Only) □ PC3 Pipped Clean out Plug Pt/C 3"	HPS High Polish Seat
□ PC3 Pinned Clean-out Plug PVC-3"□ PCB3 Pinned Clean-out Plug Brass-3"	☐ MT Wall Template ☐ WS Wall Sleeve (Requires Accessible Chase)
PC4 Pinned Clean-out Plug PVC-4"	TSC Toilet Shipping Cover
PCB4 Pinned Clean-out Plug Brass-4"	☐ RTH1 Wall Mounted Recessed Tissue Holder
COH4 4" Clean-out Hook, 4" PVC Plug	(Rear Mounted, Requires Accessible Chase)
	☐ RTH2 Wall Mounted Recessed Tissue Holder
6.) Waste Coupling for (TWE) Toilet Waste Extension:	(Front Mounted, 4-1/2" Depth)
☐ TWC3P Connecting to 3" PVC ☐ TWC3C Connecting to 3" Cast Iron	Other
TWC4P Connecting to 4" PVC	8.) Electronic Controls* (Must Use Electronic Flush Valve):
☐ TWC4C Connecting to 4" Cast Iron	□ 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)
Approved For Manufacturing By:	*(Req. 110V power through ground fault interrupter (GFCI) receptacle) Date: Company:
Approved For Manufacturing By: Wall Type:	
Approved For Manufacturing By: Wall Type:	
Approved For Manufacturing By: Wall Thickness: Wall Type:	
Wall Thickness: Wall Type:	
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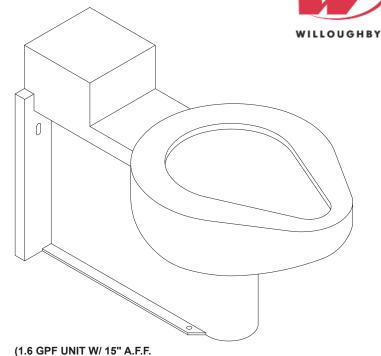
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ETW-1490-FM-FA Front Access Wall Outlet Floor Mounted Blowout Series Water Closet



* 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, Wall Outlet, 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

Front Access, 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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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: For HET 1.28 GPF, unit will pass a 2" ball.

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,				
I DET	se Model Number:		6.) Other Options	
	N-1490-FM-FA	Front Access, Wall Outlet, Floor Mounted, Blowout Series Toilet	_	Reset Toilet Overflow Preventer, Requires: rdraulic Flush Valve and Accessible Chase
		Blowdat defices foliat	` ′ ′	eset Toilet Overflow Preventer, Requires:
•	et Location:		` ′ ′	draulic Flush Valve and Accessible Chase
BS TS	'		_	nic Toilet Overflow Preventer*, Requires (EFV), ible Chase, & (WUCC-3010) or (WMSII) control
0	Top opud			lic Flush Valve (Includes Actuator)
	let Seat Height:			nic Flush Valve (Pick Control)*
☐ HC	15" Seat Height (St 18" Seat Height Ha	andard) andicap-ADA Compliant		nic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)* alve Connection (Back Spud Only)
	10 00at 110.g.m, 110	anaisap / L. / Compilant	☐ ASFVC	Flush Valve Cover (Ligature-resistant, Top Spud Only)
•	sh Valve GPF (Must Sp	pecify):	ASFVCADA	Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
_	8 GPF HET GPF ULF (Standard)		_	alve Access Panel (Allows access to chase mounted live from fixture side)
3.5	GPF (3" waste tube req	quired)	-	White Plastic Seat (No Cover, not recommended
5) Toi	let Waste:			imum Security/Ligature-resistant use) tor Color (Fixture exterior only - White)
☐ GW		Connection (Standard)	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC*
☐ WC			☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*
☐ PC		0	☐ HPS High Po☐ MT Wall Te	olish Seat
☐ PC		•		hipping Cover
☐ PC	B4 Pinned Clean-out	Plug Brass-4"	☐ RTH1	Wall Mounted Recessed Tissue Holder
			RTH2	(Rear Mounted, Requires Accessible Chase) Wall Mounted Recessed Tissue Holder
				(Front Mounted, 4-1/2" Depth)
			Other	
			7.) Electronic Cor	ntrols* (Must Use Electronic Flush Valve):
			☐ WUFC-4000	☐ Pneutronic ☐ WMSII
			☐ WUCC-3010 (S	select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)
			*(Req. 110V pow	er through ground fault interrupter (GFCI) receptacle)
App	proved For Manufac	turina Bv:	Date:	Company:
		turing By: Wall Type:		Company:
			Date:	
Wal	ll Thickness:			
Wal	Il Thickness:			1.6 GPF VERSION SHOWN,
Wal	Il Thickness:			_
Wal	Il Thickness:			1.6 GPF VERSION SHOWN, 3.5 AND 1.28 MAY VARY
Wal	Il Thickness:			1.6 GPF VERSION SHOWN, 3.5 AND 1.28 MAY VARY
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Wal	Il Thickness:	Wall Type:		1.6 GPF VERSION SHOWN, 3.5 AND 1.28 MAY VARY
Wal	Il Thickness:	Wall Type:		1.6 GPF VERSION SHOWN, 3.5 AND 1.28 MAY VARY
Wal	Il Thickness:	Wall Type:	25 3/4"	1.6 GPF VERSION SHOWN, 3.5 AND 1.28 MAY VARY
Wal	Il Thickness:	Wall Type:	25 3/4"	1.6 GPF VERSION SHOWN, 3.5 AND 1.28 MAY VARY
Wal	Il Thickness:	Wall Type:	25 3/4"	1.6 GPF VERSION SHOWN, 3.5 AND 1.28 MAY VARY
Wal	Il Thickness:	Wall Type:	25 3/4"	1.6 GPF VERSION SHOWN, 3.5 AND 1.28 MAY VARY
Wal	Il Thickness:	Wall Type:	25 3/4"	1.6 GPF VERSION SHOWN, 3.5 AND 1.28 MAY VARY
Wal	Il Thickness:	Wall Type:	25 3/4"	1.6 GPF VERSION SHOWN, 3.5 AND 1.28 MAY VARY
Wal	Il Thickness:	Wall Type:	25 3/4"	1.6 GPF VERSION SHOWN, 3.5 AND 1.28 MAY VARY
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Wal	ll Thickness:	Wall Type:	25 3/4" ————————————————————————————————————	1.6 GPF VERSION SHOWN, 3.5 AND 1.28 MAY VARY

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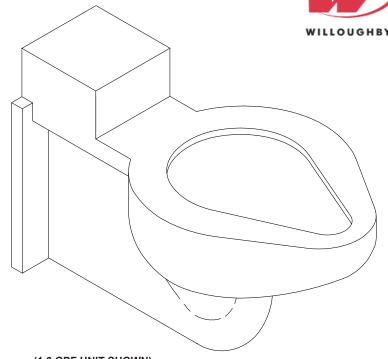


ETW-1490-OF Wall Outlet Off Floor Mounted Blowout Series Water Closet



IN COMPLIANCE WITH A.D.A. 2010

* 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 Wall Outlet, 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 seat, wal 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

Wall Outlet, Off Floor 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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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: For HET 1.28 GPF, unit will pass a 2" ball.



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1.) Base Model Number:	6.) Other Options:
☐ ETW-1490-OF Wall Outlet, Off Floor Mounted, Blowout Series Toilet	☐ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
2.) Inlet Location:	☐ T4A Auto Reset Toilet Overflow Preventer, Requires:
☐ BS Back Spud ☐ TS Top Spud	(FV) Hydraulic Flush Valve and Accessible Chase☐ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV),
	Accessible Chase, & (WUCC-3010) or (WMSII) control
3.) Flush Valve GPF (Must Specify):	FV Hydraulic Flush Valve (Includes Actuator)
☐ 1.28 GPF HET ☐ 1.6 GPF ULF (Standard)	☐ EFV Electronic Flush Valve (Pick Control)* ☐ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*
☐ 3.5 GPF (3" waste tube required)	☐ TFE Toilet Flush Extension
	FVT Flush Valve Connection (Back Spud Only)
4.) Toilet Waste: TWE Toilet Waste Extension (Standard)	□ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only) □ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
TW3 3" Clean-out for (TWE)	☐ AP Flush Valve Access Panel (Allows access to chase mounted
☐ TW5 4" Clean-out for (TWE)	flush valve from fixture side)
☐ GWC Gasketed Waste Connection ☐ WO3 3" Toilet 'P' Trap (3.5 GPF Only)	HS Hinged White Plastic Seat (No Cover, not recommended
WO3 3" Toilet 'P' Trap (3.5 GPF Only)PC3 Pinned Clean-out Plug PVC-3"	for Maximum Security/Ligature-resistant use) 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" ☐ COH4 4" Clean-out Hook, 4" PVC Plug	☐ HPS High Polish Seat ☐ MT Wall Template
a com r clean carnosis, i i vornag	☐ WS Wall Sleeve (Requires Accessible Chase)
5.) Waste Coupling for (TWE) Toilet Waste Extension:	☐ TSC Toilet Shipping Cover
☐ TWC3P Connecting to 3" PVC ☐ TWC3C Connecting to 3" Cast Iron	RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
TWC4P Connecting to 4" PVC	RTH2 Wall Mounted Recessed Tissue Holder
TWC4C Connecting to 4" Cast Iron	(Front Mounted, 4-1/2" Depth)
	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)
Approved For Manufacturing By:	Date: Company:
Wall Thickness: Wall Type:	
GH-IN NAD NATION.	1.6 GPF VERSION SHOWN, 3.5 AND 1.28 MAY VARY
	1.6 GPF VERSION SHOWN, 3.5 AND 1.28 MAY VARY IN SIZE.
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	3.5 AND 1.28 MAY VARY IN SIZE.
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SIDE VIEW



ETWS-1490-CM Wall Outlet Carrier Mounted (4-bolt) Siphon Jet Series Water Closet





(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, 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



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

Recommended Specifications

Wall Outlet, Carrier Mounted (4-bolt) 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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- Bead blast finish bowl interior

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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: For HET 1.28 GPF, unit will pass a 2" ball.

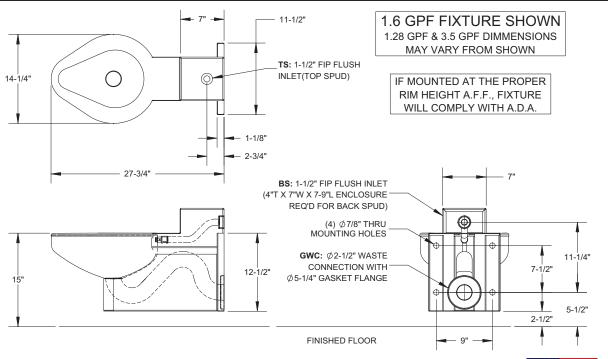
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1.) Base Model Number:	5.) Other Options	:		
☐ ETWS-1490-CM Wall Outlet, Carrier Mounted (4-bolt) Siphon Jet Toilet	T4 Manual	Manual Reset Toilet Overflow Preventer, Requires:		
	(FV) Hy	draulic Flush Valve and Accessible Chase		
2.) Inlet Location:	☐ T4A Auto R	eset Toilet Overflow Preventer, Requires:		
BS Back Spud	(FV) Hy	(FV) Hydraulic Flush Valve and Accessible Chase		
☐ TS Top Spud	☐ ET4 Electro	Electronic Toilet Overflow Preventer*, Requires (EFV),		
	Access	Accessible Chase, & (WUCC-3010) or (WMSII) control		
3.) Flush Valve GPF (Must Specify):	FV Hydrau	Hydraulic Flush Valve (Includes Actuator)		
☐ 1.28 GPF HET	□ EFV Electro	Electronic Flush Valve (Pick Control)*		
☐ 1.6 GPF ULF (Standard)	■ EFVP Electro	nic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*		
3.5 GPF (3" waste tube required)	☐ FVT Flush \	/alve Connection (Back Spud Only)		
	☐ ASFVC	Flush Valve Cover (Ligature-resistant, Top Spud Only)		
4.) Toilet Waste:	ASFVCADA	Ligature-resistant ADA Flush Valve Cover (Top Spud Only)		
GWC Gasketed Waste Connection (Standard)	☐ AP Flush \	/alve Access Panel (Allows access to chase-mounted		
	flush va	alve from fixture side)		
	HS Hinged	White Plastic Seat (No Cover, not recommended		
	for Max	rimum Security/Ligature-resistant use)		
	DC Decora	tor Color (Fixture exterior only - White)		
	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC*		
	☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*		
	☐ HPS High Po	olish Seat		
	TSC Toilet S	hipping 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			
	6.) Electronic Cor	ntrols* (Must Use Electronic Flush Valve):		
	☐ WUFC-4000	☐ Pneutronic ☐ WMSII		
	■ WUCC-3010 (S	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)

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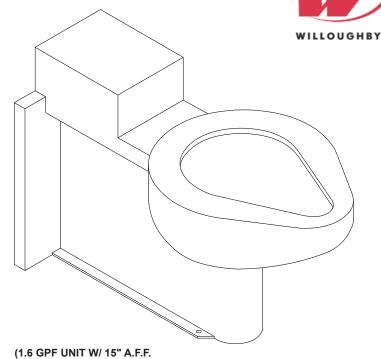
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ETWS-1490-FM Wall Outlet Floor Mounted Siphon Jet Series Water Closet



* 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 Wall Outlet, 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

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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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: For HET 1.28 GPF, unit will pass a 2" ball.

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1.) Base Model Number: ETWS-1490-FM Wall Outlet, Floor Mounted, Siphon Jet Series Toilet	7.) Other Options: T4 Manual Reset Toilet Overflow Preventer, Requires:
2.) Inlet Location:	(FV) Hydraulic Flush Valve and Accessible Chase☐ T4A Auto Reset Toilet Overflow Preventer, Requires:
BS Back Spud	(FV) Hydraulic Flush Valve and Accessible Chase
TS Top Spud	ET4 Electronic Toilet Overflow Preventer*, Requires (EFV),
3.) Toilet Seat Height:	Accessible Chase, & (WUCC-3010) or (WMSII) control FV Hydraulic Flush Valve (Includes Actuator)
15" Seat Height (Standard)	☐ EFV Electronic Flush Valve (Pick Control)*
☐ HC 18" Seat Height, Handicap-ADA Compliant	☐ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*
4.) Flush Valve GPF (Must Specify):	☐ TFE Toilet Flush Extension ☐ FVT Flush Valve Connection (Back Spud Only)
1.28 GPF HET	ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
☐ 1.6 GPF ULF (Standard)	☐ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
3.5 GPF (3" waste tube required)	AP Flush Valve Access Panel (Allows access to chase mounted
5.) Toilet Waste:	flush valve from fixture side) Hinged White Plastic Seat (No Cover, not recommended
☐ TWE Toilet Waste Extension (Standard)	for Maximum Security/Ligature-resistant use)
TW3 3" Clean-out for (TWE)	DC Decorator Color (Fixture exterior only - White)
☐ TW5 4" Clean-out for (TWE) ☐ GWC Gasketed Waste Connection	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* ☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
☐ WO3 3" Toilet 'P' Trap (3.5 GPF Only)	☐ 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"	☐ WS Wall Sleeve (Requires Accessible Chase)☐ TSC Toilet Shipping Cover
□ PC4 Pinned Clean-out Plug PVC-4"□ PCB4 Pinned Clean-out Plug Brass-4"	☐ TSC Toilet Shipping Cover ☐ RTH1 Wall Mounted Recessed Tissue Holder
COH4 4" Clean-out Hook, 4" PVC Plug	(Rear Mounted, Requires Accessible Chase)
ON Months Consulting for (TME) To Unt Months Entered to the	RTH2 Wall Mounted Recessed Tissue Holder
6.) Waste Coupling for (TWE) Toilet Waste Extension: ☐ TWC3P Connecting to 3" PVC	(Front Mounted, 4-1/2" Depth)
☐ TWC3C Connecting to 3" Cast Iron	-
☐ TWC4P Connecting to 4" PVC ☐ TWC4C Connecting to 4" Cast Iron	8.) Electronic Controls* (Must Use Electronic Flush Valve): WUFC-4000 Pneutronic WMSII
TWC4C Connecting to 4" Cast Iron	□ 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)
Approved For Manufacturing By: Wall Type:	Date: Company:
vvali Triickriess vvali Type	
MAKE CHANGES IN DESIGN AND DESIGN	1.6 GPF VERSION SHOWN, 3.5 AND 1.28 MAY VARY IN SIZE.
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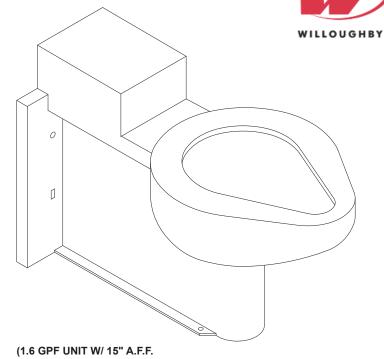
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ETWS-1490-FM-FA Front Access Wall Outlet Floor Mounted Siphon Jet Series Water Closet



* 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, Wall Outlet, 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

Front Access, 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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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.

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: For HET 1.28 GPF, unit will pass a 2" ball.

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1.) Base N	Model Number:	6.) Other	Options:
☐ ETWS-	1490-FM-FA Front Access, Wall Outlet, Floor Mounted	☐ T4	Manual Reset Toilet Overflow Preventer, Requires:
	Siphon Jet Series Toilet		(FV) Hydraulic Flush Valve and Accessible Chase
		☐ T4A	Auto Reset Toilet Overflow Preventer, Requires:
2.) Inlet Lo ☐ BS		□ □ □ □	(FV) Hydraulic Flush Valve and Accessible Chase
☐ TS	Back Spud Top Spud	☐ ET4	Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
_ 10	тор ории	☐ FV	Hydraulic Flush Valve (Includes Actuator)
3.) Toilet	Seat Height:	☐ EFV	Electronic Flush Valve (Pick Control)*
o o	15" Seat Height (Standard)	☐ EFVP	Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*
☐ HC	18" Seat Height, Handicap-ADA Compliant	□ FVT	Flush Valve Connection (Back Spud Only)
		ASFV0	, , , , , , , , , , , , , , , , , , , ,
-	Valve GPF (Must Specify):	ASFV0	· · · · · · · · · · · · · · · · · · ·
1.28 G	PF HET F ULF (Standard)	☐ AP	Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
	F (3" waste tube required)	☐ HS	Hinged White Plastic Seat (No Cover, not recommended
0.0 01	(o waste tabe required)		for Maximum Security/Ligature-resistant use)
5.) Toilet \	Naste:	☐ DC	Decorator Color (Fixture exterior only - White)
☐ GWC	Gasketed Waste Connection (Standard)	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC*
☐ WO3	3" Toilet 'P' Trap (3.5 GPF Only)	☐ TF24F	Plug-in Transformer, 110VAC to 24VAC*
PC3	Pinned Clean-out Plug PVC-3"	☐ HPS	High Polish Seat
PCB3	Pinned Clean-out Plug Brass-3"	☐ MT	Wall Template
☐ PC4 ☐ PCB4	Pinned Clean-out Plug PVC-4" Pinned Clean-out Plug Brass-4"	☐ TSC☐ RTH1	Toilet Shipping Cover Wall Mounted Recessed Tissue Holder
U FCB4	Fillied Clean-out Flug Brass-4	☐ KIIII	(Rear Mounted, Requires Accessible Chase)
		RTH2	Wall Mounted Recessed Tissue Holder
			(Front Mounted, 4-1/2" Depth)
		Other	
		•	onic Controls* (Must Use Electronic Flush Valve):
		□ WUFC	
		☐ WOCC	C-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)
			of it the femotic edited with all (211) evenion epiten)
		*(Req. 1	10V power through ground fault interrupter (GFCI) receptacle)
		*(Req. 1	10V power through ground fault interrupter (GFCI) receptacle)
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	red For Manufacturing By:		10V power through ground fault interrupter (GFCI) receptacle) Company:
	red For Manufacturing By: Wall Type:		
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Wall TI	mickness: Wall Type:		Company: 1.6 GPF VERSION SHOWN, 3.5 AND 1.28 MAY VARY
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Wall TI	wall Type:	Date:	Company: 1.6 GPF VERSION SHOWN, 3.5 AND 1.28 MAY VARY IN SIZE.
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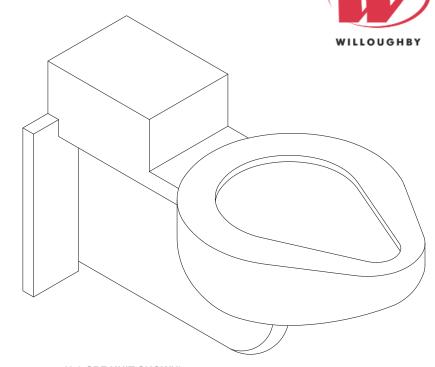
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ETWS-1490-OF Wall Outlet Off Floor Mounted Siphon Jet Series Water Closet



* 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 Wall Outlet, 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

Wall Outlet, Off Floor 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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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: For HET 1.28 GPF, unit will pass a 2" ball.

MADE IN THE U.S.A.

1.) Base Model Number: ETWS-1490-OF Wall Outlet, Off Floor Mounted, Siphon Jet Series Toilet	6.) Other Options: T4 Manual Reset Toilet Overflow Preventer, Requires:
2.) Inlet Location: BS Back Spud	(FV) Hydraulic Flush Valve and Accessible Chase Auto Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
TS Top Spud	☐ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV),
 3.) Flush Valve GPF (Must Specify): 1.28 GPF HET 1.6 GPF ULF (Standard) 3.5 GPF (3" waste tube required) 	Accessible Chase, & (WUCC-3010) or (WMSII) control FV Hydraulic Flush Valve (Includes Actuator) EFV Electronic Flush Valve (Pick Control)* EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)* TFE Toilet Flush Extension
4.) Toilet Waste: TWE Toilet Waste Extension (Standard) TW3 3" Clean-out for (TWE) TW5 4" Clean-out for (TWE) GWC Gasketed Waste Connection W03 3" Toilet 'P' Trap (3.5 GPF Only) 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" COH4 4" Clean-out Hook, 4" PVC Plug 5.) Waste Coupling for (TWE) Toilet Waste Extension:	□ 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) □ 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
☐ TWC3P Connecting to 3" PVC ☐ TWC3C Connecting to 3" Cast Iron ☐ TWC4P Connecting to 4" PVC ☐ TWC4C Connecting to 4" Cast Iron	□ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase) □ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
	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)
Approved For Manufacturing By: Wall Type:	Date: Company:
vvali Triickriess vvali Type	
NKE CHANGES IN DESIGN AND MITHOUT INCURRING OBLIGATION. 11 1/2" 12 3/2	
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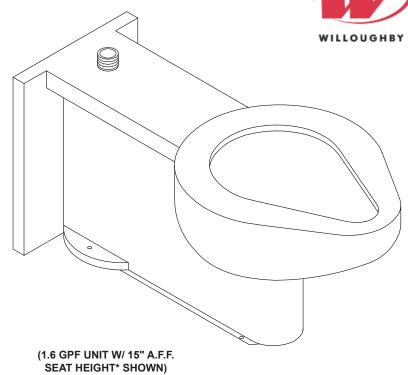
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ETF-1490-FM Floor Outlet Floor Mounted **Siphon Jet Series Water Closet**



* 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 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

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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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.

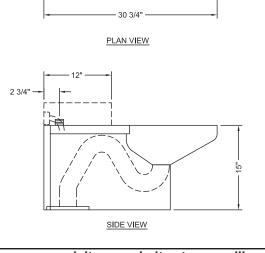
Unit shall require chase area for installation and maintenance.

Note: For HET 1.28 GPF, unit will pass a 2" ball.

MADE IN THE U.S.A.

INIODEL NOMB	PER AND OF HORS.
1.) Base Model Number:	6.) Other Options:
☐ ETF-1490-FM Floor Outlet, Floor Mounted, Siphon Jet Series Toilet	☐ T4 Manual Reset Toilet Overflow Preventer, Requires:
	(FV) Hydraulic Flush Valve and Accessible Chase
2.) Inlet Location:	☐ T4A Auto Reset Toilet Overflow Preventer, Requires:
☐ BS Back Spud	(FV) Hydraulic Flush Valve and Accessible Chase
☐ TS Top Spud	☐ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV),
	Accessible Chase, & (WUCC-3010) or (WMSII) control
3.) Toilet Seat Height:	☐ FV Hydraulic Flush Valve (Includes Actuator)
15" Seat Height (Standard)	☐ EFV Electronic Flush Valve (Pick Control)*
HC 18" Seat Height, Handicap-ADA Compliant	☐ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*
	☐ TFE Toilet Flush Extension
4.) Flush Valve GPF (Must Specify):	☐ FVT Flush Valve Connection (Back Spud Only)
1.28 GPF HET	☐ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
1.6 GPF ULF (Standard)	☐ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
☐ 3.5 GPF (3" waste tube required)	☐ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
5.) Toilet Waste:	☐ HS Hinged White Plastic Seat (No Cover, not recommended
GWC Gasketed Waste Connection (Standard)	for Maximum Security/Ligature-resistant use)
TW4 Floor Outlet Waste Connection	□ DC Decorator Color (Fixture exterior only - White)
WO3 3" Toilet 'P' Trap (3.5 GPF Only)	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*
a was a land i hap (a.a ai i ainy)	☐ 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
	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)
	(/ / 1 /
	*(Req. 110V power through ground fault interrupter (GFCI) receptacle)
Approved For Manufacturing By:	Date: Company:
vvali Triickiless vvali Type	
4 1/4" -	
	1,6 GPF VERSION SHOWN.
	3.5 AND 1.28 MAY VARY
	IN SIZE.
S. IN DESIGN AND URRING OBLIGATION.	14
S.S. I	

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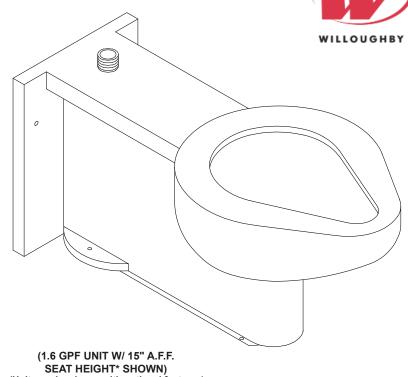
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ETF-1490-FM-FA **Front Access** Floor Outlet Floor Mounted **Siphon Jet Series Water Closet**



* 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, 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

Front Access, 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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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).

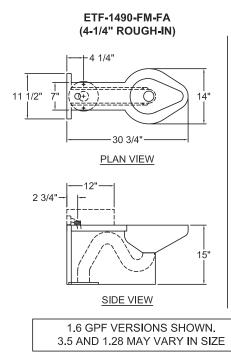
Unit requires no chase area for installation and maintenance unless specified with any Toilet Waste Extension options or Toilet Overflow Preventer options.

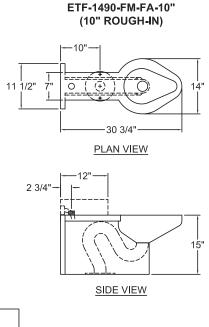
Note: For HET 1.28 GPF, unit will pass a 2" ball.

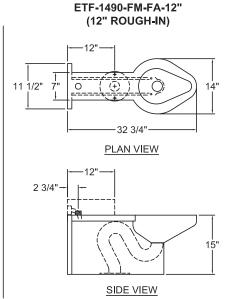


1.) Base N	Model Number:		7.)	Other (Options:	
☐ ETF-14	90-FM-FA	Front Access, Floor Outlet, Floor Mounted		T4	Manual R	eset Toilet Overflow Preventer, Requires:
		Siphon Jet Series Toilet			(FV) Hydr	aulic Flush Valve and Accessible Chase
				T4A	Auto Rese	et Toilet Overflow Preventer, Requires:
2.) Floor (Outlet Rough-In:				(FV) Hydr	aulic Flush Valve and Accessible Chase
	4-1/4" Fixture Rough	-In (Shown, Standard)		ET4	Electronic	: Toilet Overflow Preventer*, Requires (EFV),
10 "	10" Fixture Rough-In				Accessible	e Chase, & (WUCC-3010) or (WMSII) control
12"	12" Fixture Rough-In	(Changes Overall Fixture Length to 32-3/4")		FV	Hydraulic	Flush Valve (Includes Actuator)
				EFV	Electronic	Flush Valve (Pick Control)*
3.) Inlet L	ocation:			EFVP	Electronic	Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*
■ BS	Back Spud			FVT	Flush Valv	ve Connection (Back Spud Only)
TS	Top Spud			ASFVC		Flush Valve Cover (Ligature-resistant, Top Spud Only)
				ASFVC	CADA	Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
4.) Toilet	Seat Height:			AP	Flush Valv	ve Access Panel (Allows access to chase mounted
	15" Seat Height (Sta	ndard)			flush valve	e from fixture side)
☐ HC	18" Seat Height, Har	ndicap-ADA Compliant		HS		hite Plastic Seat (No Cover, not recommended
					for Maxim	um Security/Ligature-resistant use)
5.) Flush	Valve GPF (Must Spe	ecify):		DC	Decorator	Color (Fixture exterior only - White)
☐ 1.28 G	PF HET			TF24H		Hard-wired Transformer, 110VAC to 24VAC*
□ 1.6 GP	PF ULF (Standard)			TF24P		Plug-in Transformer, 110VAC to 24VAC*
☐ 3.5 GP	PF (3" waste tube requ	ired)		HPS	High Polis	sh Seat
				MT	Wall Temp	
6.) Toilet \	Waste:		_	TSC	Toilet Ship	pping Cover
_	Gasketed Waste Cor	nnection (Standard)		RTH1		Wall Mounted Recessed Tissue Holder
TW4	Floor Outlet Waste C					(Rear Mounted, Requires Accessible Chase)
■ WO3	3" Toilet 'P' Trap (3.5	GPF Only)		RTH2		Wall Mounted Recessed Tissue Holder
						(Front Mounted, 4-1/2" Depth)
			_	Other		
				Other		
			8)	Floctro	nic Contr	ols* (Must Use Electronic Flush Valve):
				WUFC		Pneutronic WMSII
			_			ect WUCC-3010 Control if pairing a Toilet with a Lavatory
			_		0010 (001	or if the Toilet is selected with an (ET4) overflow option)
			3	*(Req. 1	10V power	through ground fault interrupter (GFCI) receptacle)
Approv	/ed For Manufactu	uring By:		Date: _		Company:
1		Wall Type:				•

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ETF-1490-OW Floor Outlet Off Wall Mounted Siphon Jet Series Water Closet



* 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 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

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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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: For HET 1.28 GPF, unit will pass a 2" ball.

MADE IN THE U.S.A.

1.) Base Model Number: ETF-1490-OW Floor Outlet, Off Wall Mounted, Siphon Jet Series Toilet 2.) Inlet Location: TS Top Spud 3.) Toilet Seat Height: 15" Seat Height (Standard)

18" Seat Height, Handicap-ADA Compliant

4.) Flush Valve GPF (Must Specify):

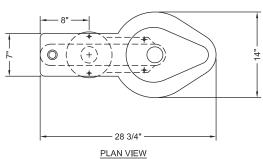
5.) Toilet	Waste:
GWC	Gasketed Waste Connection (Standard)
TW4	Floor Outlet Waste Connection
☐ WO3	3" Toilet 'P' Trap (3.5 GPF Only)
6.) Other	Options:
☐ HS	Hinged White Plastic Seat (No Cover, not recommended
	for Maximum Security/Ligature-resistant use)
☐ DC	Decorator Color (Fixture exterior only - 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:	Wall Type:	Date:	Company:

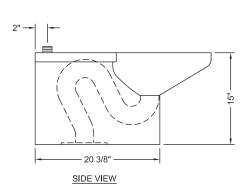
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1.28 GPF HET
1.6 GPF ULF (Standard)
3.5 GPF (3" waste tube required)



1.6 GPF VERSION SHOWN, 3.5 AND 1.28 MAY VARY IN SIZE.



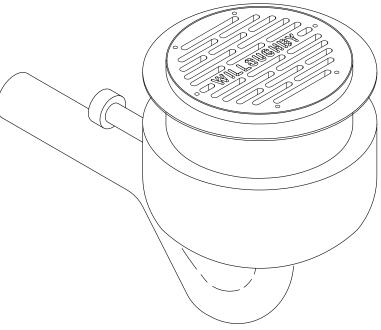
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FD-1400 Detox Toilet





(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, 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.



© Rev. 7/2017 \$2-25

1.) Base Model Number:

☐ FD-1400

2.) Flange:

□ LFL Less Flange□ WF With Flange

3.) Flush Valve GPF (Must Specify):

☐ 3.5 GPF (Standard, 3" waste tube required)

☐ 1.6 GPF ULF

4.) Other Options:

☐ FV Hydraulic Flush Valve

(Includes Actuator)

□ AP Flush Valve Access Panel□ RFVB Remote Flush Valve with Box

REFVB Remote Electronic Flush Valve

with Box*

RMPB Remote Mounted Flush Valve Push

Button (Must be located within 10' of Flush Valve)

riusii vaive)

☐ HB-8156 Dual Temp. Single Outlet Hose Box☐ EFV Electronic Flush Valve (Pick Control)*

☐ EFVP Electronic Flush Valve w/ (PZPB)

Piezo Push Button (Pick Control)*

TF24H Hard-wired Transformer, 110/24VAC*

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

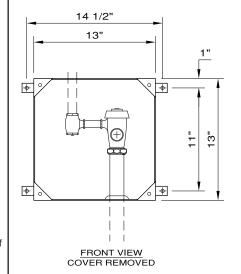
Other

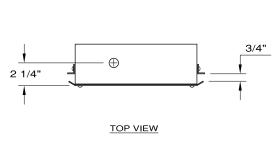
5.) Electronic Controls (Must Use Electronic Flush Valve):

☐ 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)

Wall Thickness: _





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.

Date:

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.

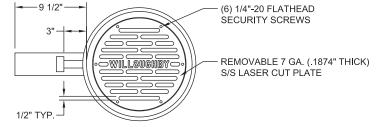
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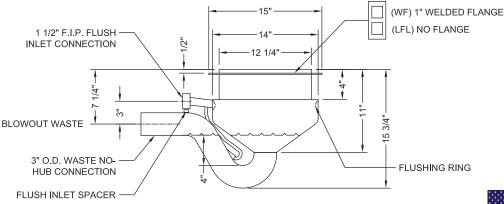
Wall Type:

Company: _____

3.5 GPF VERSI

3.5 GPF VERSION SHOWN





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ASETW-1490-FM Ligature-resistant Wall Outlet Floor Mounted Blowout Series Water Closet



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, 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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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 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.

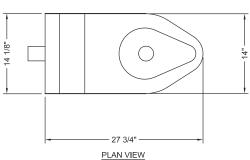
On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

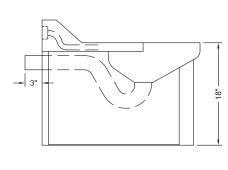
Note: For HET 1.28 GPF, unit will pass a 2" ball.

MADE IN THE U.S.A.

MODEL NUMBER AND OPTIONS: 1.) Base Model Number: 7.) Other Options: □ T4 ☐ ASETW-1490-FM Ligature-resistant, Wall Outlet, Floor Mounted. Manual Reset Toilet Overflow Preventer, Requires: **Blowout Series Toilet** (FV) Hydraulic Flush Valve and Accessible Chase Auto Reset Toilet Overflow Preventer, Requires: □ T4A 2.) Inlet Location: (FV) Hydraulic Flush Valve and Accessible Chase □ BS Back Spud ☐ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control ☐ TS Top Spud □ FV Hydraulic Flush Valve (Includes Actuator) 3.) Toilet Seat Height: □ EFV Electronic Flush Valve (Pick Control)* 15" Seat Height (Standard) Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)* ☐ FFVP 18" Seat Height, Handicap-ADA Compliant ☐ TFE Toilet Flush Extension ■ FVT Flush Valve Connection (Back Spud Only) 4.) Flush Valve GPF (Must Specify): ☐ ASFVC Ligature-resistant Flush Valve Cover (Top Spud Only) ■ 1.28 GPF HET ☐ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only) ■ 1.6 GPF ULF (Standard) □ AP Flush Valve Access Panel (Allows access to chase mounted 3.5 GPF (3" waste tube required) flush valve from fixture side) ☐ DC Decorator Color (Fixture exterior only - White) ☐ TF24H 5.) Toilet Waste: Hard-wired Transformer, 110VAC to 24VAC* ☐ TWE Toilet Waste Extension (Standard) ☐ TF24P Plug-in Transformer, 110VAC to 24VAC* ☐ TW3 3" Clean-out for (TWE) HPS High Polish Seat ☐ TW5 4" Clean-out for (TWE) □ MT Wall Template ☐ GWC **Gasketed Waste Connection** Wall Sleeve (Requires Accessible Chase) ■ WS Toilet Shipping Cover ☐ WO3 3" Toilet 'P' Trap (3.5 GPF Only) ☐ TSC ☐ PC3 Pinned Clean-out Plug PVC-3" ☐ ASRTH1 Ligature-resistant Wall Mounted Recessed Tissue Holder ☐ PCB3 Pinned Clean-out Plug Brass-3" (Rear Mounted, Requires Accessible Chase) PC4 Pinned Clean-out Plug PVC-4" ☐ ASRTH2 Ligature-resistant Wall Mounted Recessed Tissue Holder ☐ PCB4 Pinned Clean-out Plug Brass-4" (Front Mounted, 4-1/2" Depth) COH4 4" Clean-out Hook, 4" PVC Plug ASRTH3 Ligature-resistant Wall Mounted Recessed Tissue Holder For 4" Stud Wall (Front Mounted, 3-1/2" Depth) 6.) Waste Coupling for (TWE) Toilet Waste Extension: Other ■ TWC3P Connecting to 3" PVC ☐ TWC3C 8.) Electronic Controls* (Must Use Electronic Flush Valve): Connecting to 3" Cast Iron ☐ TWC4P Connecting to 4" PVC ■ WUFC-4000 Pneutronic ■ WMSII ☐ TWC4C Connecting to 4" Cast Iron ■ 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) Approved For Manufacturing By: ___ Date: Company: _ Wall Thickness: _____ Wall Type: 1.28 GP VERSION SHOWN, 3.5 AND 1.6 MAY VARY IN SIZE UNIT SHOWN IS A.D.A. COMPLIANT "HC" MODEL (18" A.F.F. SEAT HEIGHT); SEE A.D.A. NOTE FROM FRONT PAGE

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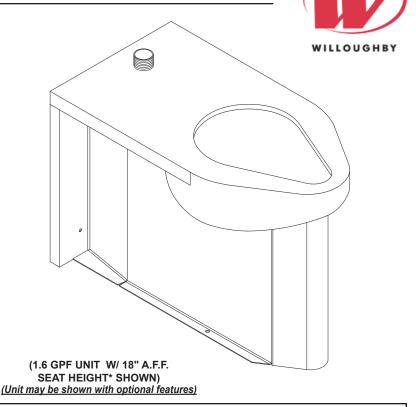
SIDE VIEW



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ASETW-1490-FM-FA Front Access Ligature-resistant Wall Outlet Floor Mounted Blowout Series Water Closet





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: ASETWS-1490-FM-FA-TS-HC-1.6-GWC-FV-ASFVC-ADA-HPS-TSC

Recommended Specifications

Front Access, Ligature-resistant, 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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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: For HET 1.28 GPF, unit will pass a 2" ball.

MADE IN THE U.S.A.

1.) Base Model Number: ☐ ASETW-1490-FM-FA Floor Mounted Blowout Se	
2.) Inlet Location: BS Back Spud TS Top Spud	 (FV) Hydraulic Flush Valve and Accessible Chase □ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
3.) Toilet Seat Height: 15" Seat Height (Standard) HC 18" Seat Height, Handicap-ADA Compliant	□ FV Hydraulic Flush Valve (Includes Actuator) □ EFV Electronic Flush Valve (Pick Control)* □ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)** □ FVT Flush Valve Connection (Back Spud Only)
4.) Flush Valve GPF (Must Specify): 1.28 GPF HET 1.6 GPF ULF (Standard) 3.5 GPF (3" waste tube required)	 □ ASFVC Ligature-resistant Flush Valve Cover (Top Spud Only) □ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only) □ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side) □ DC Decorator Color (Fixture exterior only - White)
5.) Toilet Waste: GWC Gasketed Waste Connection (Standard) 3" Toilet 'P' Trap (3.5 GPF Only) 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"	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* ☐ TF24P Plug-in Transformer, 110VAC to 24VAC* ☐ HPS High Polish Seat ☐ MT Wall Template ☐ TSC Toilet Shipping Cover ☐ ASRTH1 Ligature-resistant Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase) ☐ ASRTH2 Ligature-resistant Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth) ☐ ASRTH3 Ligature-resistant Wall Mounted Recessed Tissue Holder For 4" Stud Wall (Front Mounted, 3-1/2" Depth) ☐ Other ☐ Other ☐ Other ☐ Other ☐ 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)
Approved For Manufacturing By: Wall Thickness: W	/all Type: Date:
WILL 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. The state of	1.6 GPF MODEL SHOWN; 1.28 GPF AND 3.5 GPF MODELS MAY VARY IN SIZE FROM SHOWN UNIT SHOWN IS ADA COMPLIANT (HC) MODEL (18" AFF RIM HEIGHT). SEE ADA NOTE ON FRONT PAGE.
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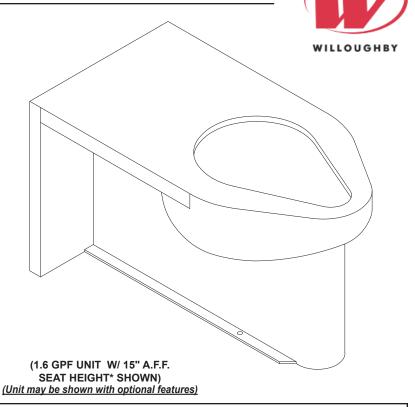
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ASETWS-1490-FM Ligature-resistant Wall Outlet Floor Mounted Siphon Jet Series Water Closet



* 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 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, 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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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: For HET 1.28 GPF, unit will pass a 2" ball.

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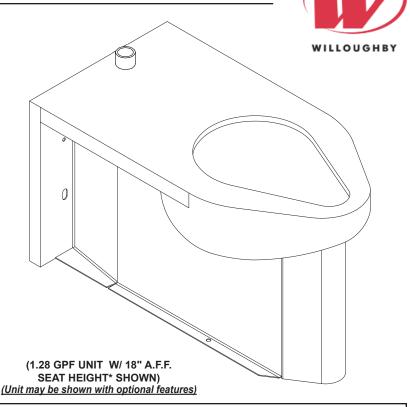
1.) Base Model Number:	7.) Other Options:
☐ ASETWS-1490-FM Ligature-resistant, Wall Outlet, Floor Mounted,	☐ T4 Manual Reset Toilet Overflow Preventer, Requires:
Siphon Jet Series Toilet	(FV) Hydraulic Flush Valve and Accessible Chase
2.) Inlet Location:	T4A Auto Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
BS Back Spud	☐ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV),
TS Top Spud	Accessible Chase, & (WUCC-3010) or (WMSII) control
	☐ FV Hydraulic Flush Valve (Includes Actuator)
3.) Toilet Seat Height:	☐ EFV Electronic Flush Valve (Pick Control)*
□ 15" Seat Height (Standard) □ HC 18" Seat Height, Handicap-ADA Compliant	☐ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*☐ TFE Toilet Flush Extension
HC 18" Seat Height, Handicap-ADA Compliant	FVT Flush Valve Connection (Back Spud Only)
4.) Flush Valve GPF (Must Specify):	☐ ASFVC Ligature-resistant Flush Valve Cover (Top Spud Only)
1.28 GPF HET	☐ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
1.6 GPF ULF (Standard)	☐ AP Flush Valve Access Panel (Allows access to chase mounted
3.5 GPF (3" waste tube required)	flush valve from fixture side)
5.) Toilet Waste:	□ DC Decorator Color (Fixture exterior only - White)□ TF24H Hard-wired Transformer, 110VAC to 24VAC*
☐ TWE Toilet Waste Extension (Standard)	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
TW3 3" Clean-out for (TWE)	HPS High Polish Seat
TW5 4" Clean-out for (TWE)	☐ MT Wall Template
GWC Gasketed Waste Connection	WS Wall Sleeve (Requires Accessible Chase)
□ WO3 3" Toilet 'P' Trap (3.5 GPF Only)□ PC3 Pinned Clean-out Plug PVC-3"	☐ TSC Toilet Shipping Cover ☐ ASRTH1 Ligature-resistant Wall Mounted Recessed Tissue Holder
□ PCB3 Pinned Clean-out Plug Brass-3"	(Rear Mounted, Requires Accessible Chase)
PC4 Pinned Clean-out Plug PVC-4"	☐ ASRTH2 Ligature-resistant Wall Mounted Recessed Tissue Holder
PCB4 Pinned Clean-out Plug Brass-4"	(Front Mounted, 4-1/2" Depth)
COH4 4" Clean-out Hook, 4" PVC Plug	☐ ASRTH3 Ligature-resistant Wall Mounted Recessed Tissue Holder
6.) Waste Coupling for (TWE) Toilet Waste Extension:	For 4" Stud Wall (Front Mounted, 3-1/2" Depth) Other
☐ TWC3P Connecting to 3" PVC	
☐ TWC3C Connecting to 3" Cast Iron	8.) Electronic Controls* (Must Use Electronic Flush Valve):
☐ TWC4P Connecting to 4" PVC	□ WUFC-4000 □ Pneutronic □ WMSII
☐ TWC4C Connecting to 4" Cast Iron	☐ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)
	or it the foliotic colocted that all (E11) evenion option,
	*(Req. 110V power through ground fault interrupter (GFCI) receptacle)
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Wall Thickness: Wall Type:	Date: Company: 1.6 GPF VERSION SHOWN; 1.28 GPF AND 3.5 GPF MAY VARY IN SIZE UNIT SHOWN IS NOT A.D.A. COMPLIANT (15" SEAT HEIGHT); SEE A.D.A. NOTE FROM FRONT PAGE (TWE) 2 1/2" WASTE CONNECTION — (4) 1/2"-13 ANCHOR TAPPINGS —
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Wall Thickness: Wall Type:	Date: Company: 1.6 GPF VERSION SHOWN; 1.28 GPF AND 3.5 GPF MAY VARY IN SIZE UNIT SHOWN IS NOT A.D.A. COMPLIANT (15" SEAT HEIGHT); SEE A.D.A. NOTE FROM FRONT PAGE (TWE) 2 1/2" WASTE CONNECTION (4) 1/2"-13 ANCHOR TAPPINGS ED RODS, NUTS, AND WASHERS (BS) 1 1/2" F.I.P. FLUSH INLET
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Wall Thickness: Wall Type:	Date: Company: 1.6 GPF VERSION SHOWN; 1.28 GPF AND 3.5 GPF MAY VARY IN SIZE UNIT SHOWN IS NOT A.D.A. COMPLIANT (15" SEAT HEIGHT); SEE A.D.A. NOTE FROM FRONT PAGE (TWE) 2 1/2" WASTE CONNECTION
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ASETWS-1490-FM-FA Front Access Ligature-resistant Wall Outlet Floor Mounted Siphon Jet Series Water Closet





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

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

Front Access, Ligature-resistant, 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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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: For HET 1.28 GPF, unit will pass a 2" ball.

MADE IN THE U.S.A.

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1.) Base Model Number:	6.) Other Options:
ASETWS-1490-FM-FA Front Access, Ligature-resistant, Floor Mounted Siphon Jet Series	· · · · · · · · · · · · · · · · · · ·
Tiod Modified dipriori out confec	☐ T4A Auto Reset Toilet Overflow Preventer, Requires:
2.) Inlet Location:	(FV) Hydraulic Flush Valve and Accessible Chase
☐ BS Back Spud ☐ TS Top Spud	☐ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
To lop opad	FV Hydraulic Flush Valve (Includes Actuator)
3.) Toilet Seat Height:	☐ EFV Electronic Flush Valve (Pick Control)*
☐ 15" Seat Height (Standard) ☐ HC 18" Seat Height, Handicap-ADA Compliant	☐ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)* ☐ FVT Flush Valve Connection (Back Spud Only)
To Seat Height, Handicap-ADA Compliant	ASFVC Ligature-resistant Flush Valve Cover (Top Spud Only)
4.) Flush Valve GPF (Must Specify):	☐ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
☐ 1.28 GPF HET ☐ 1.6 GPF ULF (Standard)	AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
3.5 GPF (3" waste tube required)	DC Decorator Color (Fixture exterior only - White)
	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*
5.) Toilet Waste:	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
☐ GWC Gasketed Waste Connection (Standard) ☐ WO3 3" Toilet 'P' Trap (3.5 GPF Only)	☐ HPS High Polish Seat ☐ MT Wall Template
PC3 Pinned Clean-Out Plug PVC-3"	☐ TSC Toilet Shipping Cover
PCB3 Pinned Clean-Out Plug Brass-3"	☐ ASRTH1 Ligature-resistant Wall Mounted Recessed Tissue Holder
☐ PC4 Pinned Clean-Out Plug PVC-4" ☐ PCB4 Pinned Clean-Out Plug Brass-4"	(Rear Mounted, Requires Accessible Chase) ☐ ASRTH2 Ligature-resistant Wall Mounted Recessed Tissue Holder
Tillied Clean-Out Flug blass-4	(Front Mounted, 4-1/2" Depth)
	☐ ASRTH3 Ligature-resistant Wall Mounted Recessed Tissue Holder
	For 4" Stud Wall (Front Mounted, 3-1/2" Depth)
	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)
	*/Dog. 410V power through ground fault interrunter (CECI) recontacte)
	*(Req. 110V power through ground fault interrupter (GFCI) receptacle)
Approved For Manufacturing By:	
Approved For Manufacturing By: Wall Thickness: Wall Ty	Date: Company:
	Date: Company:
	Date: Company:
Wall Thickness: Wall Ty	Date: Company: pe:
Wall Thickness: Wall Ty	Date: Company: pe: 3/8" FLOOR ANCHOR HOLES, FASTENERS BY OTHERS 1.28 GPF VERSION SHOWN,
Wall Thickness: Wall Ty	pe: Company: pe:
Wall Thickness: Wall Ty	Date: Company: pe: 3/8" FLOOR ANCHOR HOLES, FASTENERS BY OTHERS 1.28 GPF VERSION SHOWN, 1.6 AND 3.5 MAY VARY IN SIZE
Wall Thickness: Wall Ty	Date: Company: pe: 3/8" FLOOR ANCHOR HOLES, FASTENERS BY OTHERS 1.28 GPF VERSION SHOWN, 1.6 AND 3.5 MAY VARY IN SIZE
Wall Thickness: Wall Ty	Date:Company: pe: 3/8" FLOOR ANCHOR HOLES, FASTENERS BY OTHERS 1.28 GPF VERSION SHOWN, 1.6 AND 3.5 MAY VARY IN SIZE UNIT SHOWN IS NOT A.D.A. COMPLIANT (15" SEAT HEIGHT);
Wall Thickness: Wall Ty	Date:Company: pe: 3/8" FLOOR ANCHOR HOLES, FASTENERS BY OTHERS 1.28 GPF VERSION SHOWN, 1.6 AND 3.5 MAY VARY IN SIZE UNIT SHOWN IS NOT A.D.A.
Wall Thickness: Wall Ty	Date:Company: pe: 3/8" FLOOR ANCHOR HOLES, FASTENERS BY OTHERS 1.28 GPF VERSION SHOWN, 1.6 AND 3.5 MAY VARY IN SIZE UNIT SHOWN IS NOT A.D.A. COMPLIANT (15" SEAT HEIGHT);
Wall Thickness: Wall Ty	Date:Company: pe:
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ASETF-1490-FM Ligature-resistant Floor Outlet Floor Mounted Siphon Jet Series Water Closet



* 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, 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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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: For HET 1.28 GPF, unit will pass a 2" ball.

MADE IN THE U.S.A.

Base Model Number:			
2.) Inst. Location: BS Bax Spud	•	-1490-FM Ligature-resistant, Floor Outlet, Floor Mounte	ed, T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
B Seak Spud			- · · ·
3) Toller Seat Height: GEV Electronic Flash Value (Pick Control)	☐ BS	Back Spud	☐ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
15" Seal Height, Islandiary EPVP Electronic Plush Valve (DPP) Piezo Push Bluton (Piez Control) Fish Valve Concert Hours Valve of (PPP) Piezo Push Bluton (Piez Control) ASPVCADA Usature-resistant ADA Plush Valve Cover (Top Spud Only) ASPVC Usature-resistant ADA Plush Valve Cover (Top Spud Only) ASPVC Usature-resistant ADA Plush Valve Cover (Top Spud Only) ASPVC Usature-resistant ADA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant ADA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant ADA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant ADA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant ADA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant ADA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant ADA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant ADA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant AUA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant AUA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant AUA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant AUA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant AUA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant AUA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant AUA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant AUA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant AUA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant AUA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant AUA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant AUA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant AUA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant AUA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant AUA Plush Valve Cover (Top Spud Only) ASPVCADA Usature-resistant AUA Plush Valve Cover (Top Spud Only) ASPVCADA U	2 \ Tailat (Cont Heimbt.	_ ,
FVT Flush Valve Connection (Bask Spud Only)	•	•	
4. Flush Valve GPF (Must Specify): ASFVCADA Lighture-resistant APS Havis Valve Cover (Top Spud Only) 126 GPF LIET (Standard) 15 GPF LIET (Standard) 15 GPF LIET (Standard) 16 GPF LIET (Standard) 16 GPF LIET (Standard) 17 GWC Gassleted Waste Connection (Standard) TR24P Flush Valve Access Panel (Allows access to chase mounted flush valve from fathers 100/AC to 24VAC* Flush Valve Access Panel (Allows access to chase mounted flush valve from fathers 100/AC to 24VAC* Flush Valve Access Panel (Allows access to chase mounted flush valve from fathers 100/AC to 24VAC* Flush Valve Access Panel (Allows access to chase mounted flush valve from fathers 100/AC to 24VAC* Flush Valve Access Panel (Allows access to chase mounted flush valve	_	3 (,	
4) Flush Valve CoPF (Must Specify): 1.8 GPF LIF (Slandard) 1.8 GPF LIF (Slandard) 3.5 GPF (3 waste tube required) 4.5 Tollet Waste: GWC Gasketed Waste Connection (Standard) W03 3 Tollet P Trap (3.5 GPF Only) 4.5 Tollet Waste: GWC Gasketed Waste Connection (Standard) W03 3 Tollet P Trap (3.5 GPF Only) 4.5 Tollet Sample Gasketed Waste Connection (Standard) W03 3 Tollet P Trap (3.5 GPF Only) 4.5 Tollet Sample Gasketed Waste Connection (Standard) W03 4 Tollet P Trap (3.5 GPF Only) 4.5 Tollet Sample Gasketed Waste Connection (Standard) W03 4 Tollet P Trap (3.5 GPF Only) W03 5 Tollet P Trap (3.5 GPF Only) W03 6 Tollet P Trap (3.5 GPF Only) W04 6 Tollet P Trap (3.5 GPF Only) W05 7 Tollet P Trap (3.5 GPF Only) W05 8 Tollet P Trap (3.5 GP		To God Height, Handidap ABA Compilant	
S.) Tollet Weste: TP24H	☐ 1.28 G	PF HET	☐ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only) ☐ AP Flush Valve Access Panel (Allows access to chase mounted
5.) Tollet Waste: TF24H Hard-wired Transformer, 110VAC to 24VAC* WC Gasked Waste Connection (Standard) HPS High Polans Sast TF24P Plugh Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast HPS High Polans Sast Wall Transformer, 10VAC to 24VAC* HPS High Polans Sast Wall Transformer, 10VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* HPS High Polans Sast Wall Transformer, 110VAC to 24VAC* Wall Transformer, 110VAC to	_	,	,
5.) Tolker Wester: TP24P Plug-in Transformer, 110VAC to 24VACC*	☐ 3.5 GP	PF (3" waste tube required)	_ ` , ,
MY Wall Trickness: Wall	5 \ Toilet \	Wasto	-
MT Wall Template WS Wall Steve (Requires Accessable Chase) TSC Toilet Shipping Over Lighture-resistant Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase) ASRTH1 Lighture-resistant Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase) ASRTH2 Lighture-resistant Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth) ASRTH3 Lighture-resistant Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth) ASRTH3 Lighture-resistant Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth) WIJCC-3010 Control if pairing a Toilet with a Lavatory or the WIJCC-3010 Control if pairing a Toilet with a Lavatory or through ground fault interrupter (GFCI) receptacle) Approved For Manufacturing By: Date: Company: Company: Company: Lighture-resistant Wall Trickness: Wall Trickness: Wall Trye: Lighture-resistant Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth) WIJCC-3010 Control if pairing a Toilet with a Lavatory or through ground fault interrupter (GFCI) receptacle) Approved For Manufacturing By: Date: Company: Lighture-resistant Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth) WIJCC-3010 Control if pairing a Toilet with a Lavatory or through ground fault interrupter (GFCI) receptacle) Approved For Manufacturing By: Date: Company: Lighture-resistant Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth) Approved For Manufacturing By: Date: Company: Lighture-resistant Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth) Approved For Manufacturing By: Lighture-resistant Wall Mounted Recessed Tissue Holder (Front Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth) Lighture-resistant Wall Mounted Recessed Tissue Holder (Front Wall) Lighture-resistant Wall Mounted Recessed Tissue Holder (Front Wall) Lighture-resistant Wall Wall Mounted Recessed Tissue Holder (Front Wall) Lighture-resistant Wall Wall Wall Mounted			
WS Wall Sleeve (Requires Accessible Chase) WS Wall Sleeve (Work of Wash Wall Sleeve (Work of Wash Wall Mounted Recessed Tissue Holder (Forn Mounted, Requires Accessible Chase) WS Wall Sleeve (Requires Accessible Chase) WS Wall Sleeve (Requires Accessible Chase) WS Wall Sleeve (Work of Wash Wall Mounted Recessed Tissue Holder For 4" Stud Wall (Front Mounted, 3-1/2" Depth) WS Wall Sleeve (Work of Wash Wall Mounted Recessed Tissue Holder For 4" Stud Wall (Front Mounted, 3-1/2" Depth) WIFE-4000 Prestronic Flush Valve): WIFE-4000 Prestronic Flush Valve): WIFE-4000 Prestronic Flush Valve): WIFE-4000 Prestronic Flush Wall Accessible Chase) WIFE-4000 Prestronic Flush Valve): WIFE-4000 Prestronic Flush Valve): WIFE-4000 Prestronic Flush Valve): WIFE-4000 Prestronic Flush Wall Accessible Chase) WIFE-4000 Prestronic Flush Wall Valve): WIFE-4000	_	,	_
ASRTH1 Ligature-resistant Wall Mounted Recessed Tissue Holder (Rear Mounted Recessed Tissue Holder (Rear Mounted Recessed Tissue Holder (Front Mounted Recessed Tissue Holder (Front Mounted Recessed Tissue Holder For 4" Stud Wall (Front Mounted Recessed Tissue Holder For 4" Stud Wall (Front Mounted Recessed Tissue Holder For 4" Stud Wall (Front Mounted, 3-1/2" Depth) ASRTH3 Ligature-resistant Wall Mounted Recessed Tissue Holder For 4" Stud Wall (Front Mounted, 3-1/2" Depth) WIGC-3010 (Select WUCC-3010 (Select WUCC-3010 (Select WUCC-3010 Control it 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)	_		- '
ASRTH2 Ligature-resistant Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2' Depth) ASRTH3 Ligature-resistant Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2' Depth) ASRTH3 Ligature-resistant Wall Mounted Recessed Tissue Holder For 4" Stud Wall (Front Mounted, 3-1/2" Depth) Other	_		TSC Toilet Shipping Cover
ASRTH2 Ligature-resistant Wall Mounted Recessed Tissue Holder (Front Mounted, A-1/2" Depth) ASRTH3 Ligature-resistant Wall Mounted Recessed Tissue Holder Other			☐ ASRTH1 Ligature-resistant Wall Mounted Recessed Tissue Holder
ASRTH3 Ligature 2D peth) Controls (Must Use Electronic Flush Nalve): Phetoronic WMSII WUCC-3010 Controls (Must Use Electronic Flush Valve): WMFC-4000 Phetoronic WMSII WUCC-3010 Control (I 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) Approved For Manufacturing By: Date: Company: C			,
Approved For Manufacturing By: Date: Company:			_
Other			☐ ASRTH3 Ligature-resistant Wall Mounted Recessed Tissue Holder
THERADED RODS, NUTS, AND WASHERS THERADED RODS, NUTS, AND WASHERS THERADED RODS,			•
WUCC-3010 (Select Wucc-3010 (S			☐ Other
Wall Thickness: Wall Type: A 1/4"			 ☐ 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)
Wall Thickness: Wall Type: A 1/4"	Annroy	ved For Manufacturing By:	Date: Company:
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SIDE VIEW BACK VIEW	H-IN D D D D D	### ### ##############################	LIGATURE-RESISTANT 1.6 GPF VERSION SHOWN THREADED RODS, NUTS, AND WASHERS 3/4" 15" 15" 15" 15" 15" 15" 15" 1
	10/ / "	GASILLITEANGE	

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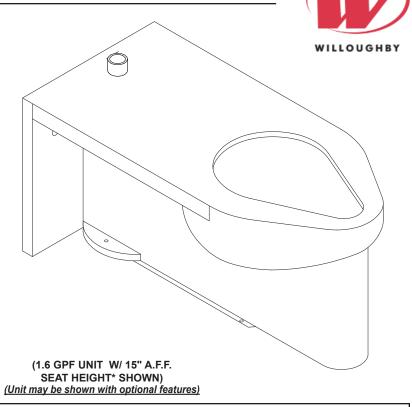
SIDE VIEW



ASETF-1490-FM-FA
Front Access
Ligature-resistant
Floor Outlet
Floor Mounted
Siphon Jet Series
Water Closet



18" A.F.F.SEAT HEIGHT



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

Front Access, Ligature-resistant, 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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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).

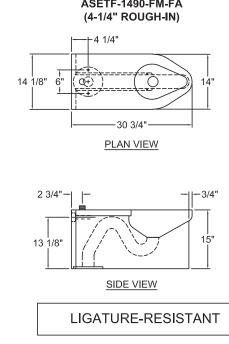
Unit requires no chase area for installation and maintenance <u>unless specified with</u> any Toilet Waste Extension options or Toilet Overflow Preventer options.

Note: For HET 1.28 GPF, unit will pass a 2" ball.

MADE IN THE U.S.A.

1.) Base	Model Number:		7.) Other	r Options	:
ASETI	F-1490-FM-FA	Front Access, Ligature-resistant, Floor Outlet, Floor Mounted Siphon Jet Series Toilet	☐ T4		l Reset Toilet Overflow Preventer, Requires: ydraulic Flush Valve and Accessible Chase
			□ T4A	Auto R	eset Toilet Overflow Preventer, Requires:
2.) Floor	Outlet Rough-In:			(FV) Hy	ydraulic Flush Valve and Accessible Chase
	4-1/4" Fixture Rou	ugh-In (Shown, Standard)	☐ ET4	Electro	nic Toilet Overflow Preventer*, Requires (EFV),
10 "	10" Fixture Rough				ible Chase, & (WUCC-3010) or (WMSII) control
12 "	12" Fixture Rough	n-In (Changes Overall Fixture Length to 32-3/4")	☐ FV	•	lic Flush Valve (Includes Actuator)
			☐ EFV		nic Flush Valve (Pick Control)*
,	Location:		_		nic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*
☐ BS	Back Spud		☐ FVT		/alve Connection (Back Spud Only) Ligature-resistant Flush Valve Cover (Top Spud Only)
☐ TS	Top Spud		☐ ASF\		Ligature-resistant Flush Valve Cover (10p Spud Only) Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
4) Toilet	Seat Height:		☐ AP		/alve Access Panel (Allows access to chase mounted
	15" Seat Height (S	Standard)			alve from fixture side)
HC	0 (Handicap-ADA Compliant	☐ DC		tor Color (Fixture exterior only - White)
	.o oouto.g.u, .	Tanasap 7.571 Sempilan	☐ TF24		Hard-wired Transformer, 110VAC to 24VAC*
5.) Flush	Valve GPF (Must S	Specify):	☐ TF24		Plug-in Transformer, 110VAC to 24VAC*
1.28 (☐ HPS		olish Seat
_	PF ULF (Standard)		□ мт	Wall Te	
_	PF (3" waste tube re	equired)	TSC	Toilet S	Shipping Cover
6.) Toilet	Waste:		☐ ASR	TH1	Ligature-resistant Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
GWC TW4	Gasketed Waste Floor Outlet Was	Connection (Standard) ste Connection	☐ ASR	H2	Ligature-resistant Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
☐ WO3	3" Toilet 'P' Trap	(3.5 GPF Only)	☐ ASR	`H3	Ligature-resistant Wall Mounted Recessed Tissue Holder For 4" Stud Wall (Front Mounted, 3-1/2" Depth)
			Other		<u> </u>
			Other		
			8.) Elect	ronic Coı	ntrols* (Must Use Electronic Flush Valve):
			WUF		☐ Pneutronic ☐ WMSII
			☐ WUC	C-3010 (S	Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)
			*(Req.	110V pow	ver through ground fault interrupter (GFCI) receptacle)
Appro	ved For Manufa	cturing By:	Date:		Company:
		Wall Type:			
	_	ASETF-1490-FM-FA A	SETF-1490	-MEA	-10" ASETF-1490-FM-FA-12"
1	1	AGE 11 - 1730-1 M-1 A	OE11-1430	-1 IAI-1 1-4.	-10 AOLII -1430-1 M-1 A-12

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.



(10" ROUGH-IN) 6" Ō 14 1/8" 14" -30 3/4" **PLAN VIEW** -3/4" 2 3/4" 15" 13 1/8" SIDE VIEW

6" 0 14 1/8" 14' 32 3/4" PLAN VIEW -3/4" 2 3/4" 15" 13 1/8" SIDE VIEW

(12" ROUGH-IN)

1.6 GPF VERSIONS SHOWN. 3.5 AND 1.28 MAY VARY IN SIZE

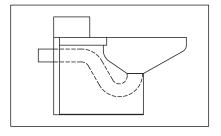
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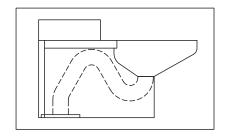


TOILET WASTE LOCATION

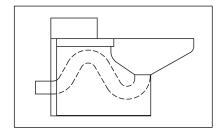




(ETW)- WALL OUTLET, BLOWOUT

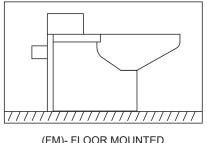


(ETF)- FLOOR OUTLET, SIPHON JET

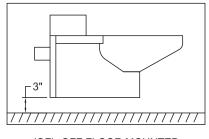


(ETWS)- WALL OUTLET, SIPHON JET

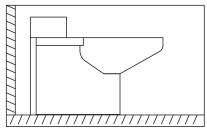
FIXTURE MOUNTING



(FM)- FLOOR MOUNTED

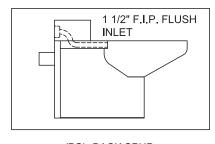


(OF)- OFF FLOOR MOUNTED

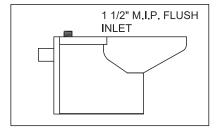


(OW)- OFF WALL MOUNTED

INLET LOCATION



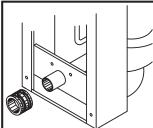
(BS)- BACK SPUD



(TS)- TOP SPUD

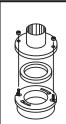
TOILET WASTE OPTIONS





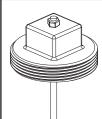
THE TOILET WASTE EXTENSION EXTENDS THE STAINLESS STEEL WASTE TUBE OUT THE BACK OF THE FIXTURE ALLOWING FOR A NOHUB TYPE CONNECTION. SPECIAL NO-HUB COUPLING IS REQUIRED. SPECIFY CONNECTING PIPE SIZE AND TYPE.

(TWE)- TOILET WASTE EXTENSION



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

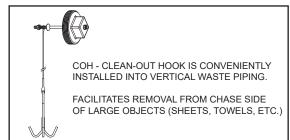
(TW4) FLOOR OUTLET WASTE CONNECTION



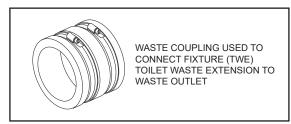
THE PINNED CLEAN-OUT PLUG IS USED TO STOP LARGE OBJECTS FROM ENTERING THE BUILDING'S MAIN WASTE SYSTEM.

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

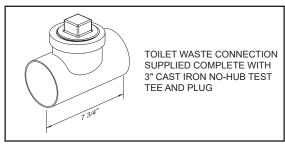
(PC)- PINNED CLEAN-OUT PLUG



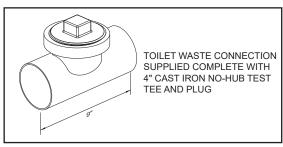
(COH4) CLEAN-OUT HOOK



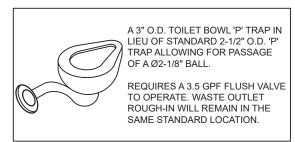
(TWC__)- TOILET WASTE COUPLING



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



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



(WO3) TOILET 'P'-TRAP (3.5 GPF ONLY)



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



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

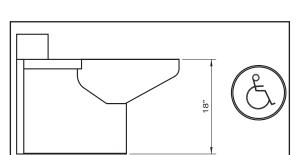


PROVIDES WATER SUPPLY CONTROL FOR FLUSHING WATER CLOSETS. DELANY, SLOAN, AND ZURN FLUSH VALVES ARE COMPATIBLE WITH WILLOUGHBY UNITS.

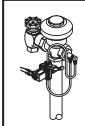
FLUSH VALVES ARE AVAILABLE IN 3.5 GPF, 1.6 GPF, AND 1.28 GPF.

(SEE S11-SUPPLEMENTAL INFORMATION)

(FV)- HYDRAULIC FLUSH VALVE (INCLUDES ACTUATOR)



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

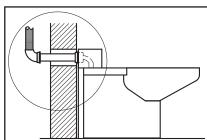


PROVIDES WATER SUPPLY CONTROL FOR FLUSHING WATER CLOSETS. DELANY, SLOAN, AND ZURN FLUSH VALVES ARE COMPATIBLE WITH WILLOUGHBY UNITS.

FLUSH VALVES ARE AVAILABLE IN 3.5 GPF, 1.6 GPF, AND 1.28 GPF.

(SEE S11-SUPPLEMENTAL INFORMATION)

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



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

WALL THICKNESSES UP TO 2", BEYOND WHICH THE CONNECTION BECOMES MORE DIFFICULT TO MAKE.

THE-WALL FLUSHING CONNECTION, ALLOWING FOR THE CONNECTION TO BE MADE IN THE CHASE.

STANDARD SLIP JOINT CONNECTIONS WILL WORK FOR Ø WILLOUGHBY RECOMMENDS THE USE OF A THROUGH-

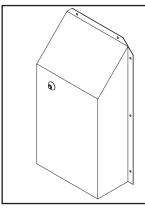


CONSTRUCTED OF 14 GA. TYPE 304 STAINLESS STEEL AND 20 GA. GALVANIZED STEEL (IN-WALL FRAME)

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

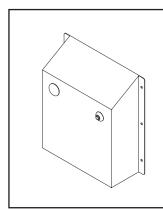




CONSTRUCTED OF 14 GA. TYPE 304 STAINLESS STEEL W/ #4 SATIN FINISH AND LIGATURE-RESISTANT SLOPED TOP

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

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

(ASFVCADA)- LIGATURE-RESISTANT ADA FLUSH VALVE COVER

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<u>OPTIONS (CONTINUED)</u>



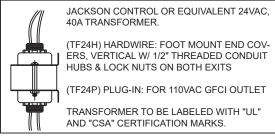


THE TOILET OVERFLOW PREVENTER IS RECOMMENDED FOR FACILITIES WITH HIGH VANDALISM. (T4) IS NORMALLY USED IN CONJUNCTION WITH A BACK SUPPLY TOILET OR COMBINATION UNIT WHERE AN ACCESSIBLE PIPE CHASE IS PROVIDED

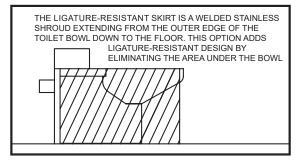
(T4)- MANUAL RESET TOP FOUR OVERFLOW PREVENTER (REQUIRES (FV) HYDRAULIC FLUSH VALVE AND ACCESSIBLE CHASE)



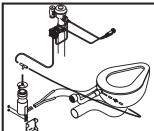
(HS)- HINGED PLASTIC SEAT



(TF24)- TRANSFORMER, 110VAC TO 24VAC



(SK)- LIGATURE-RESISTANT TOILET SKIRT

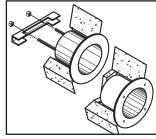


THE TOILET OVERFLOW PREVENTER IS RECOMMENDED FOR FACILITIES WITH HIGH VANDALISM. (T4A) IS NORMALLY USED IN CONJUNCTION WITH A BACK SUPPLY TOILET OR COMBINATION UNIT WHERE AN ACCESSIBLE PIPE CHASE IS PROVIDED

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



(HPS)- HIGH POLISH SEAT



CONSTRUCTED OF 14 GA. TYPE 304 STAINLESS STEEL

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

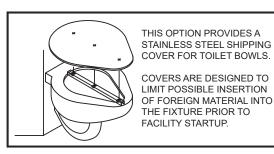
(RTH1)- RECESSED TISSUE HOLDER (REAR MOUNT) (RTH2)- RECESSED TISSUE HOLDER (FRONT MOUNT) (ASRTH1)- LIGATURE-RESISTANT RECESSED

TISSUE HOLDER (REAR MOUNT)

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

(ASRTH3)- LIGATURE-RESISTANT STUD WALL

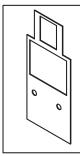
RECESSED TISSUE HOLDER (FRONT MOUNT)



(TSC)- TOILET SHIPPING COVER



OPTIONS (CONTINUED)

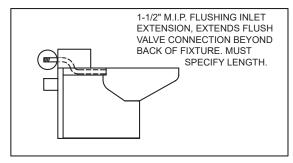


CONSTRUCTED OF 18 GAUGE GALVANIZED STEEL.

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



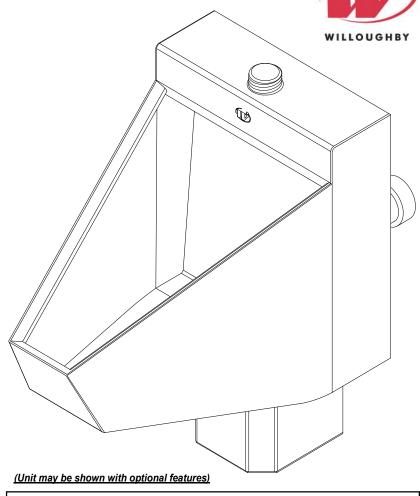
(TFE)- TOILET FLUSH EXTENSION



(Page Intentionally Left Blank)

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





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

Example: To specify a 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

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.

MADE IN THE U.S.A.

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1.) Base Model Number:

☐ UW-1412-BJ Single Person, Rear Mounted, Blowout Flush Straddle Urinal

2.) Inlet Location:

□ BS Back Spud□ TS Top Spud

3.) Flush Valve GPF (Must Specify):

■ 1.5 GPF

☐ 1.0 GPF Low Flow

4.) Options:

■ MT Wall Template

□ WS Wall Sleeve (Requires Accessible Chase)□ FV Hydraulic Flush Valve (Includes Actuator)

☐ EFV Electronic Flush Valve (Pick Control)*

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

☐ Other _____

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

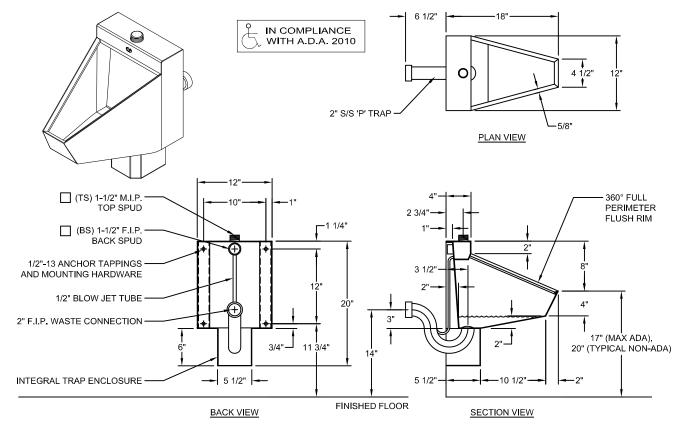
☐ WUFC-4000 ☐ Pneutronic ☐ WMSII

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

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



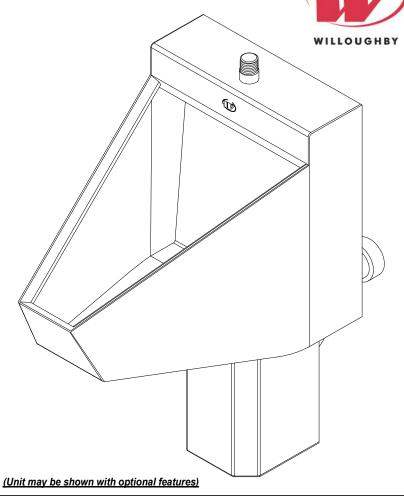
S3-2



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





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

Example: To specify a 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

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.

MADE IN THE U.S.A.

1.) Base Model Number:

☐ UW-1412-WO Single Person, Rear Mounted, Washout Flush Straddle Urinal

2.) Inlet Location:

□ BS Back Spud□ TS Top Spud

3.) Flush Valve GPF (Must Specify):

■ 1.0 GPF Low Flow

☐ 0.5 GPF High Efficiency (HEU)

4.) Options:

■ MT Wall Template

□ WS Wall Sleeve (Requires Accessible Chase)
 □ FV Hydraulic Flush Valve (Includes Actuator)
 □ EFV Electronic Flush Valve (Pick Control)*

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

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.

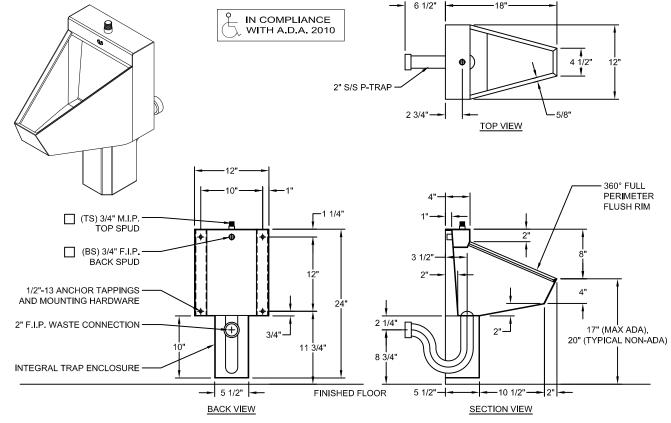
Other

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

☐ WUFC-4000 ☐ Pneutronic ☐ WMSII

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

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

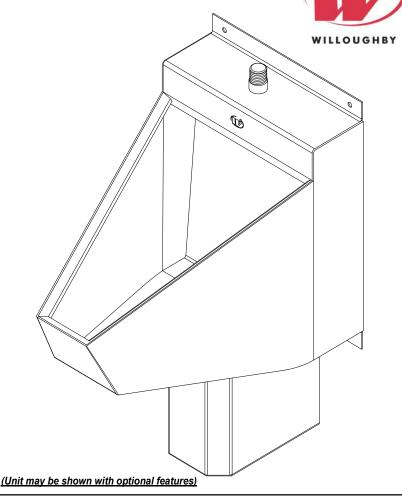


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UW-1412-WO-FA Single Person Front Mounted Washout Flush Straddle Urinal





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

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

Use the following Willoughby Model Number:

UW-1412-WO-FA-TS-1.0-MT-FV

Recommended Specifications

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 chase.

MADE IN THE U.S.A.

1.) Base Model Number:

☐ UW-1412-WO-FA Single Person, Front Mounted, Washout Flush Straddle Urinal

2.) Inlet Location:

□ BS Back Spud□ TS Top Spud

3.) Flush Valve GPF (Must Specify):

■ 1.0 GPF Low Flow

☐ 0.5 GPF High Efficiency (HEU)

4.) Options:

■ MT Wall Template

☐ FV Hydraulic Flush Valve (Includes Actuator)☐ EFV Electronic Flush Valve (Pick Control)*

☐ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*

☐ 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*

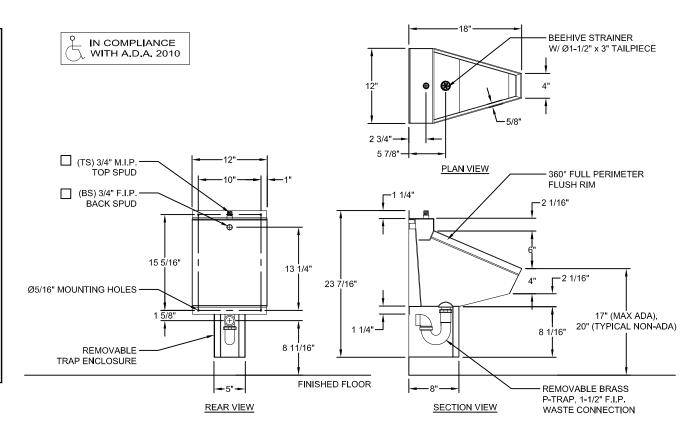
☐ Other☐ Other

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

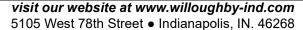
☐ WUFC-4000 ☐ Pneutronic ☐ WMSII

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

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



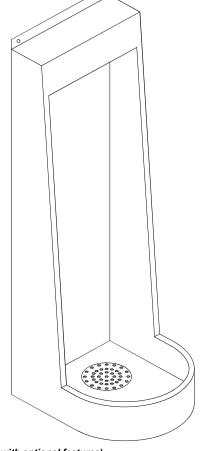
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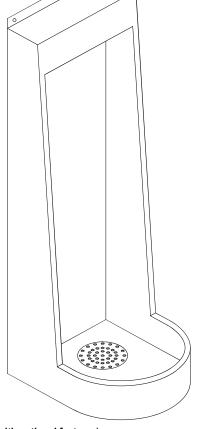






UF-1438 Single Person Floor Mounted Stall Urinal







(Unit may be shown with optional features)

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

Example: To specify a 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

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 others.

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

MADE IN THE U.S.A.

1.) Base Model Number: UF-1438 Single Person, Floor Mounted Stall Urinal 2.) Inlet Location: BS Back Spud

3.) Flush Valve GPF (Must Specify):

Top Spud

■ 1.0 GPF Low Flow

4.) Options:

□ TS

ΜT	Wall Template	

☐ FV Hydraulic Flush Valve (Includes Actuator)☐ EFV Electronic Flush Valve (Pick Control)*

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

☐ 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

Other

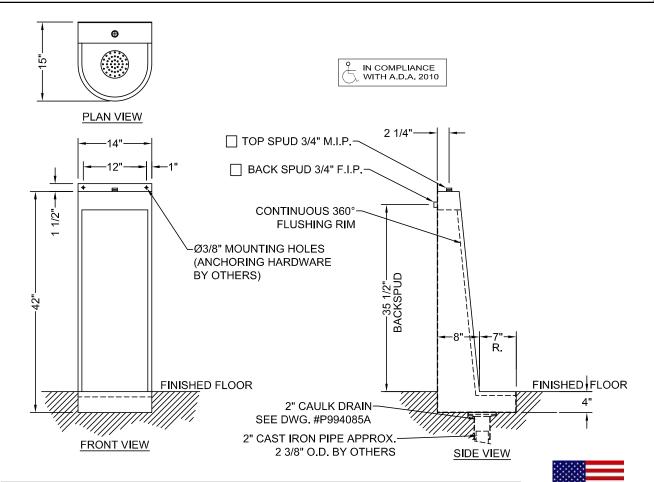
5.) Electronic Controls* (Must Use Electronic Flush Valve):

☐ WUFC-4000 ☐ Pneutronic ☐ WMSII

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

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

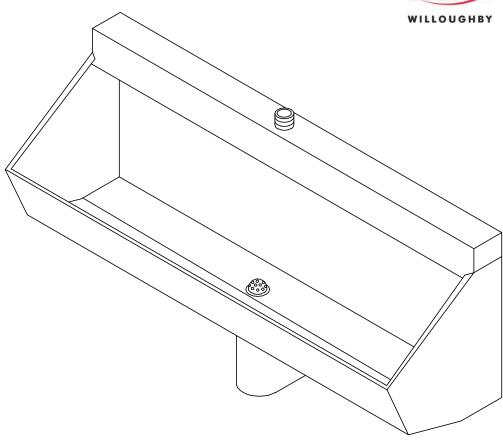
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UW-1800 Series **Multi-Person Rear Mounted** Washout **Trough Urinal**



(Unit may be shown with optional features)

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

Example: To specify a 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

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.

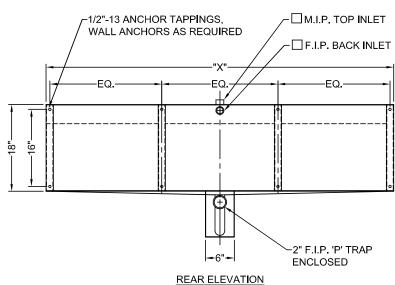
Anchoring shall be by a standard 8-point system: threaded rods, nuts and washers furnished for walls up to 8" thick.

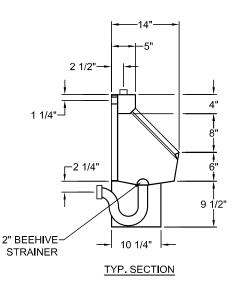
Unit requires chase area for installation and maintenance.

MADE IN THE U.S.A.

MODEL NUMBER AND OPTIONS: 1.) Base Model Number: ☐ UW-1836 36" Multi-Person, Rear Mounted, Washout Trough Urinal (Wall Outlet) ☐ UW-1848 48" Multi-Person, ' ☐ UW-1860 60" Multi-Person, " ☐ UW-1872 72" Multi-Person, " ☐ UW-1896 96" Multi-Person, " 2.) Inlet Location: Back Spud □ BS □ TS Top Spud 3.) Flush Valve GPF (Must Specify): 1.0 GPF Low Flow 4.) Options: □ MT Wall Template ■ WS Wall Sleeve (Requires Accessible Chase) Hydraulic Flush Valve (Includes Actuator) ☐ FV Electronic Flush Valve (Pick Control)* □ EFV ☐ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)* Ligature-resistant Urinal Flush Valve Cover (Top Spud Only) ☐ ASUFVC Flush Valve Connection (Back Spud Only) Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side) □ AP ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* TF24P Plug-in Transformer, 110VAC to 24VAC* ☐ Other 5.) Electronic Controls* (Must Use Electronic Flush Valve): ■ WUFC-4000 Pneutronic ■ WMSII *(Req. 110V power through ground fault interrupter (GFCI) receptacle) Approved For Manufacturing By: ____ Company: __ Wall Thickness: Wall Type: PITCH TO DRAIN 360° FULL PERIMETER FLUSHING RIM MODEL NO. "X" D**I**M. INLET 3/4" UW-1836 36" 3/4" UW-1848 48" UW-1860 3/4" \oplus 60" 1-1/2" UW-1872 72" PLAN VIEW 1-1/2" UW-1896 96"







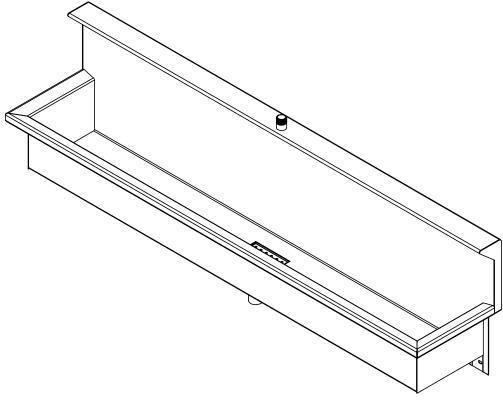
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UW-1800-FA Series

Multi-Person Front 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 Multi-Person, Front Mounted Trough Urinal, 60" length with Top Spud

Use the following Willoughby Model Number: UW-1860-FA-TS

Recommended Specifications

Multi-Person, Front Mounted 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.

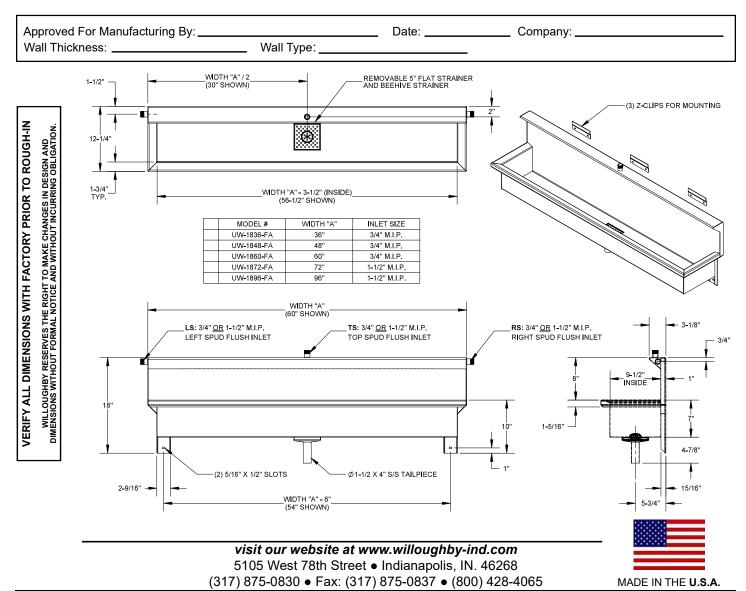


1.) Base Model Number:

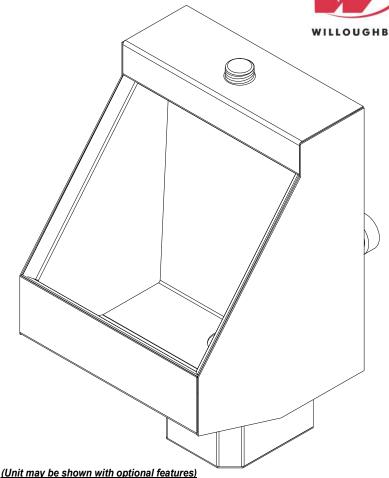
- ☐ UW-1836-FA 36" Multi-Person, Front Mounted, Washout Trough Urinal (Wall Outlet)
- UW-1848-FA 48" Multi-Person, "
- 60" Multi-Person, " ☐ UW-1860-FA
- ☐ UW-1872-FA 72" Multi-Person, " ☐ UW-1896-FA 96" Multi-Person, "

2.) Inlet Location:

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



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



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

Example: To specify a 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

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.

MADE IN THE U.S.A.

1.) Base Model Number: ☐ UW-1814-BJ Single Person, Rear Mounted, Blowout Flush Trough Urinal 2.) Inlet Location: ☐ BS Back Spud □ TS Top Spud 3.) Flush Valve GPF (Must Specify): ■ 1.5 GPF ☐ 1.0 GPF Low Flow 4.) Options: □ MT Wall Template ■ WS Wall Sleeve (Requires Accessible Chase) □ FV Hydraulic Flush Valve (Includes Actuator) ☐ EFV Electronic Flush Valve (Pick Control)* ☐ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)* ☐ ASUFVC Ligature-resistant Urinal Flush Valve Cover (Top Spud Only)

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*

Flush Valve Connection (Back Spud Only)

☐ Other ☐ Other

□ FVT

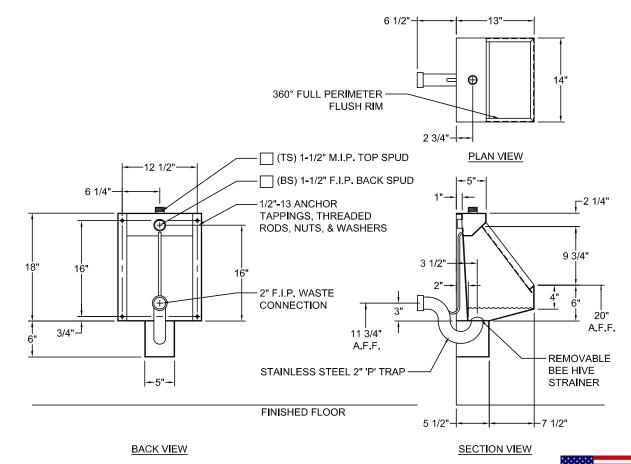
☐ Other _____

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

☐ WUFC-4000 ☐ Pneutronic ☐ WMSII

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

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

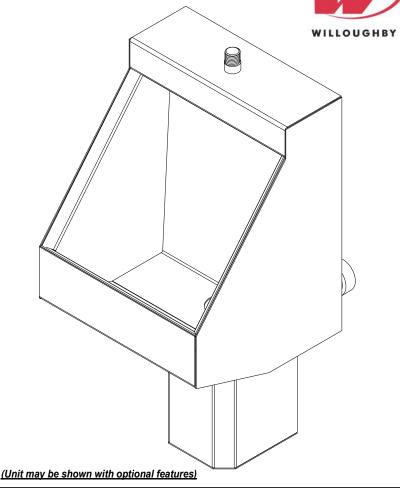


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UW-1814-WO Single Person Rear Mounted Washout Flush Trough Urinal



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

Example: To specify a 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

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.

MADE IN THE U.S.A.

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1.) Base Model Number:

☐ UW-1814-WO Single Person, Rear Mounted, Washout Flush Trough Urinal

2.) Inlet Location:

□ BS Back Spud□ TS Top Spud

3.) Flush Valve GPF (Must Specify):

■ 1.0 GPF Low Flow

☐ 0.5 GPF High Efficiency (HEU)

4.) Options:

■ MT Wall Template

□ WS Wall Sleeve (Requires Accessible Chase)□ FV Hydraulic Flush Valve (Includes Actuator)

☐ EFV Electronic Flush Valve (Pick Control)*

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

☐ Other _____

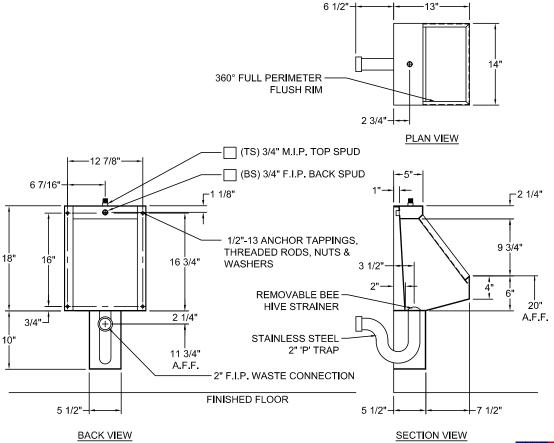
5.) Electronic Controls* (Must Use Electronic Flush Valve):

☐ WUFC-4000 ☐ Pneutronic ☐ WMSII

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

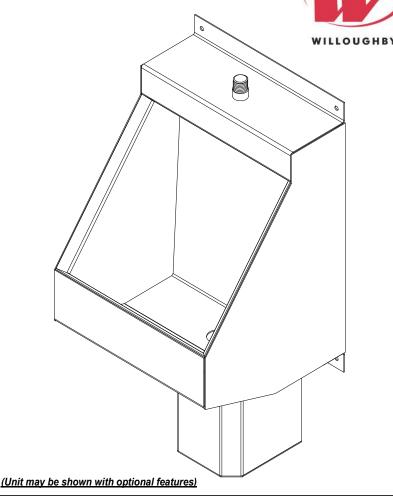
Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Thickness: _____ Wall Type: _____

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



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

Example: To specify a 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

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

© Rev. 7/2017

- 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.

MADE IN THE U.S.A.

1.) Base Model Number:

☐ UW-1814-WO-FA Single Person, Front Mounted, Washout Flush Trough Urinal

2.) Inlet Location:

□ BS Back Spud□ TS Top Spud

3.) Flush Valve GPF (Must Specify):

■ 1.0 GPF Low Flow

☐ 0.5 GPF High Efficiency (HEU)

4.) Options:

■ MT Wall Template

☐ FV Hydraulic Flush Valve (Includes Actuator)

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

☐ 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 _____□ Other _____

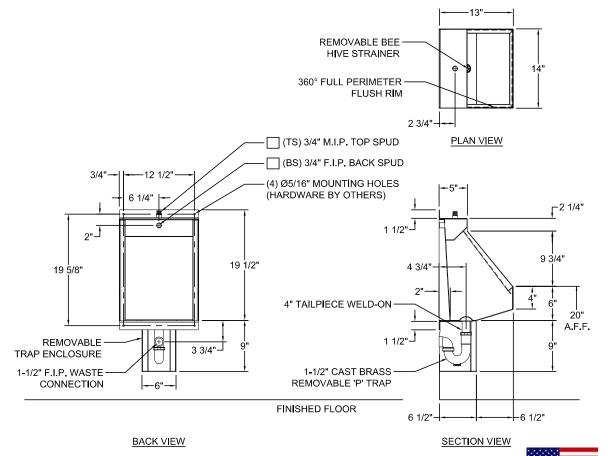
5.) Electronic Controls* (Must Use Electronic Flush Valve):

☐ WUFC-4000 ☐ Pneutronic ☐ WMSII

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

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

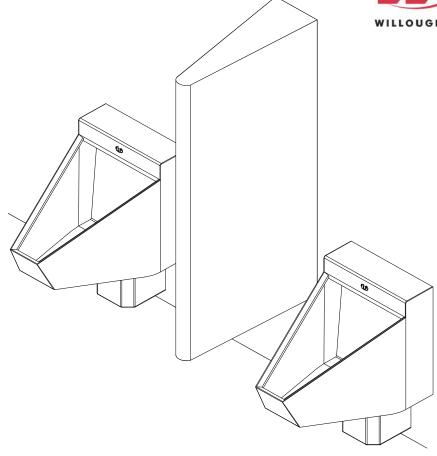




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URS-1836 Urinal Screen



(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.



		_			
1.	.۱	Base	Model	Num	ber:

☐ URS-1836 Urinal Screen

2.) Options:

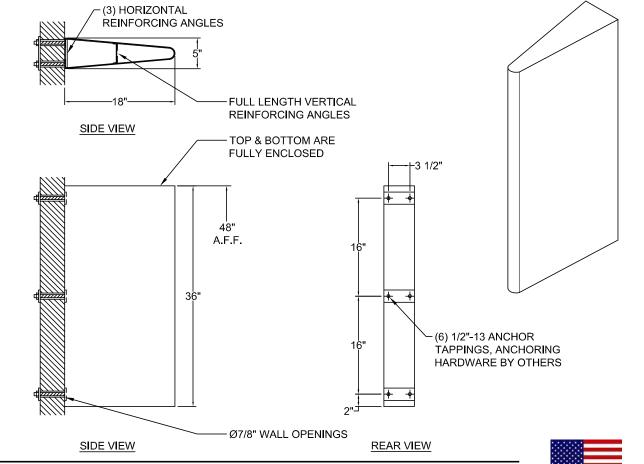
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☐ FA Front Mounted (Does not require chase)

Other

Other ____

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

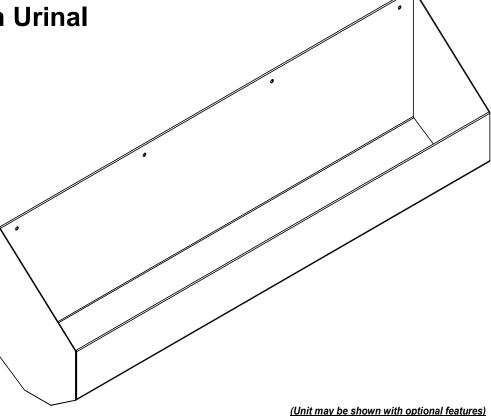


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WWU-1500 Series Multi-Person Waterless Trough Urinal



tome may be shown with optional real

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

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

Use the following Willoughby Model Number: WWU-1536

Recommended Specifications

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 18 GA., Type 304 stainless steel with 14 GA., Type 304 stainless steel ends. 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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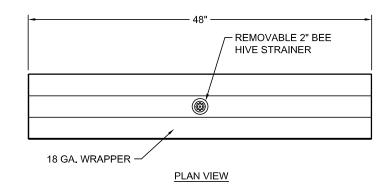
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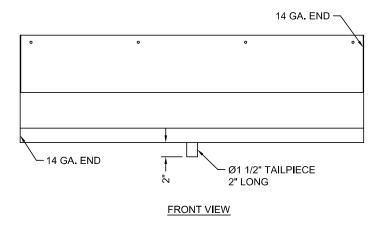
1.) Base Model Number: ☐ WWU-1536 36" Multi-Person, Waterless Trough Urinal ■ WWU-1548 48" Multi-Person, Waterless " 60" Multi-Person, Waterless " ☐ WWU-1560 ☐ WWU-1572 72" Multi-Person, Waterless " ☐ WWU-1596 96" Multi-Person, Waterless " 2.) Options: ☐ BKSPL36 36" x 36" 14 GA. Stainless Steel Backsplash ☐ 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

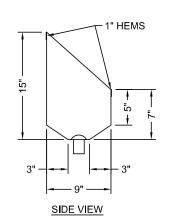
Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		. ,

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Other



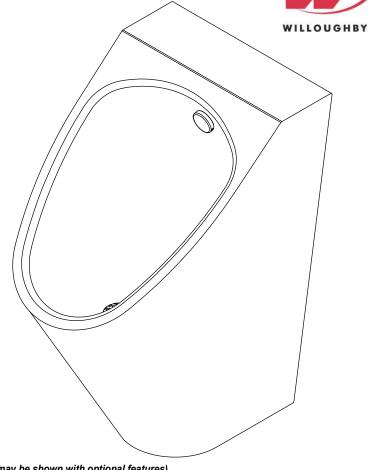




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UW-1317-HEU **Single Person Rear Mounted ADA-Compliant Contoured** Washout Flush **High Efficiency Urinal**





(Unit may be shown with optional features)

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

Example: To specify a 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

Recommended Specifications

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 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.

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1.) Base Model Number:

☐ UW-1317-HEU Single Person, Rear Mounted, ADA-Compliant, Contoured,

Washout Flush, High Efficiency Urinal

2.) Inlet Location:

□ BS Back Spud□ TS Top Spud

3.) Flush Valve GPF (Must Specify):

- ☐ 0.5 GPF High Efficiency (HEU)
- ☐ 0.125 GPF High Efficiency (HEU)

4.) Options:

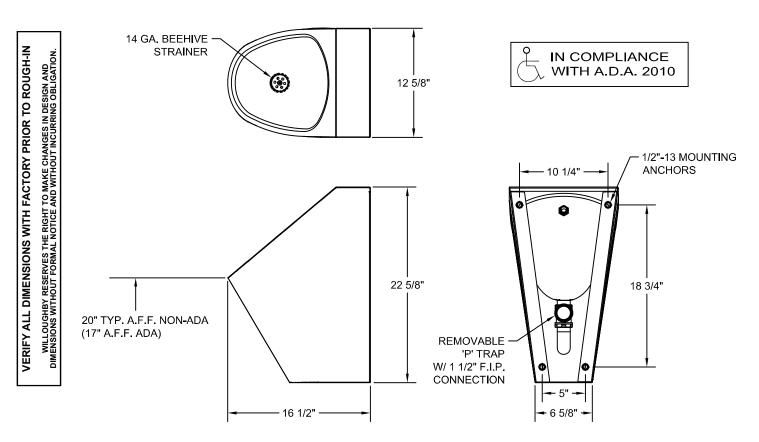
- MT Wall Template
- WS Wall Sleeve (Requires Accessible Chase)
- ☐ FV Hydraulic Flush Valve (Includes Actuator)
- ☐ EFV Electronic Flush Valve (Pick Control)*
- ☐ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*
- ☐ ASUFVC Ligature-resistant Urinal Flush Valve Cover (Top Spud 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*
- ☐ DC Decorator Color (Fixture exterior only White)
- Other
- ☐ Other _____

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

☐ WUFC-4000 ☐ Pneutronic ☐ WMSII

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

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

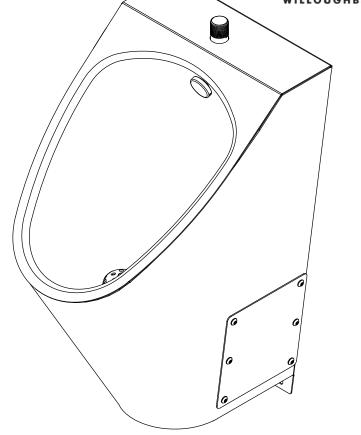


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UW-1317-HEU-FA
Single Person
Front Access
ADA-Compliant
Contoured
Washout Flush
High Efficiency Urinal





(Unit may be shown with optional features)

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

Example: To specify a Single Person, Front Access, 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

Single Person, Front Access, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal shall be: Willoughby Model No. **UW-1317-HEU-FA-BS** (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 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.

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1.) Base Model Number:

☐ UW-1317-HEU-FA Single Person, Front Access, ADA-Compliant, Contoured,

Washout Flush, High Efficiency Urinal

2.) Inlet Location:

□ BS Back Spud□ TS Top Spud

3.) Flush Valve GPF (Must Specify):

- 0.5 GPF High Efficiency (HEU)
- ☐ 0.125 GPF High Efficiency (HEU)

4.) Options:

- MT Wall Template
- ☐ FV Hydraulic Flush Valve (Includes Actuator)
- ☐ EFV Electronic Flush Valve (Pick Control)*
- □ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*
 □ ASUFVC Ligature-resistant Urinal Flush Valve Cover (Top 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*
- ☐ DC Decorator Color (Fixture exterior only White)
- Other
- ☐ Other _____

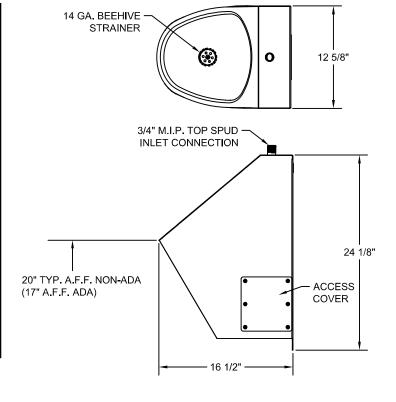
5.) Electronic Controls* (Must Use Electronic Flush Valve):

☐ WUFC-4000 ☐ Pneutronic ☐ WMSII

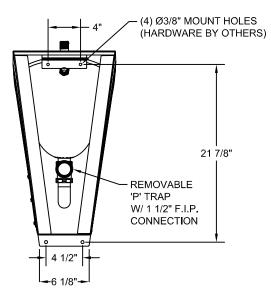
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

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









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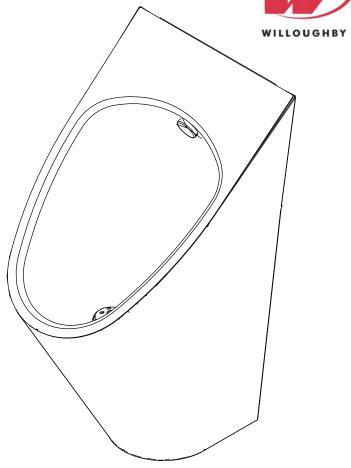
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ASUW-1314-HEU Single Person Rear Mounted Ligature-resistant **ADA-Compliant Contoured** Washout Flush **High Efficiency Urinal**







(Unit may be shown with optional features)

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

Example: To specify a 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

Recommended Specifications

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 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.

MADE IN THE U.S.A.

1.) Base Model Number:

☐ ASUW-1314-HEU

Single Person, Rear Mounted, Ligature-resistant, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal

2.) Inlet Location:

□ BS Back Spud

3.) Flush Valve GPF (Must Specify):

GPF High Efficiency (HEU)

☐ 0.125 GPF High Efficiency (HEU)

4.) Options:

□ MT Wall Template

■ WS Wall Sleeve (Requires Accessible Chase) □ FV Hydraulic Flush Valve (Includes Actuator) ☐ EFV

Electronic Flush Valve (Pick Control)*

☐ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)* Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side) ☐ AP

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

☐ DC Decorator Color (Fixture exterior only - White)

□ Other Other

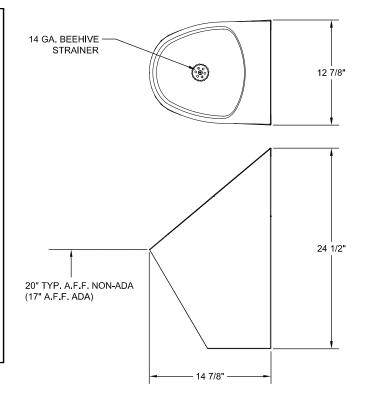
5.) Electronic Controls* (Must Use Electronic Flush Valve): ■ WMSII

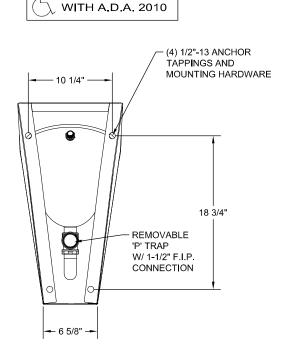
■ WUFC-4000 Pneutronic

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

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

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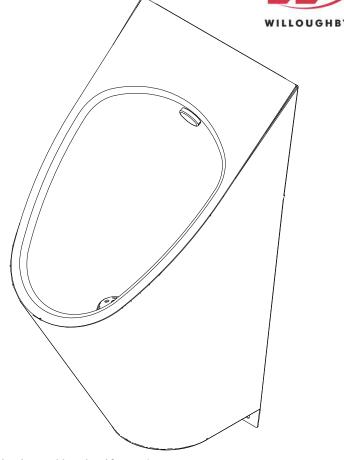




IN COMPLIANCE

MADE IN THE U.S.A.

ASUW-1314-HEU-FA
Single Person
Front Access
Ligature-resistant
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 Single Person, Front Access, 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

Recommended Specifications

Single Person, Front Access, 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 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.

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1.) Base Model Number:

☐ ASUW-1314-HEU-FA

Single Person, Front Access, Ligature-resistant, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal

2.) Inlet Location:

■ BS Back Spud

3.) Flush Valve GPF (Must Specify):

■ 0.5 GPF High Efficiency (HEU)

☐ 0.125 GPF High Efficiency (HEU)

4.) Options:

■ MT Wall Template

☐ FV Hydraulic Flush Valve (Includes Actuator)

☐ EFV Electronic Flush Valve (Pick Control)*

☐ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*

☐ 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*

☐ DC Decorator Color (Fixture exterior only - White)

☐ Other _____

☐ Other _____

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

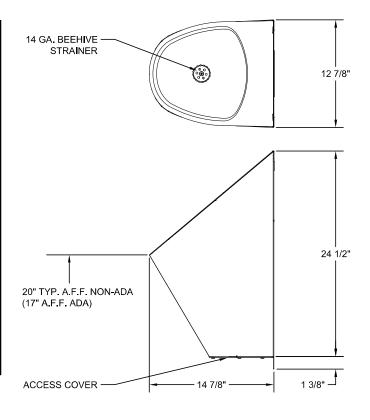
■ WUFC-4000

☐ Pneutronic ☐ WMSII

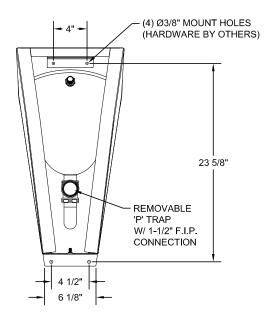
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

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

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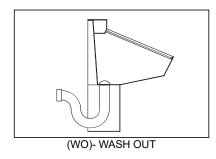
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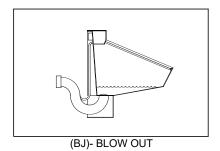


URINAL OPTIONS

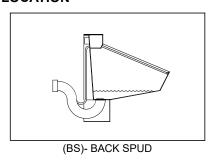


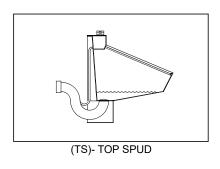
FLUSH TYPE



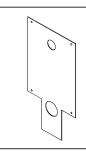


INLET LOCATION





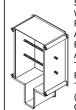
OTHER OPTIONS



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 OPENINGS.

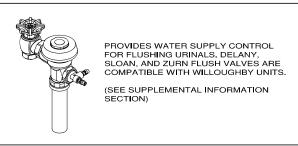
(MT)- WALL TEMPLATE



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



(FV)- FLUSH VALVE



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, 1.6 GPF, AND 1.28 GPF.

(SEE S11-SUPPLEMENTAL INFORMATION)

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

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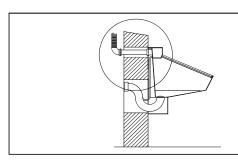
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URINAL OPTIONS (CONT.)



OTHER OPTIONS (CONT.)

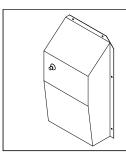


FLUSH VALVE TAILPIECES ARE FURNISHED STANDARD WITH SLIP JOINT FIXTURE CONNECTIONS.

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.

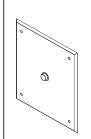
(FVT)- FLUSH VALVE THROUGH-WALL CONNECTION



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 **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 code bubbler, dual temp. pneumatic metering valve, pneumatic push buttons, elbow waste, and single towel hook

Use the following Willoughby Model Number: HS-1013-46-15-BC-PML2-PPB-EB-TH1

Recommended Specifications

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" 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.

MADE IN THE U.S.A.

S4-1

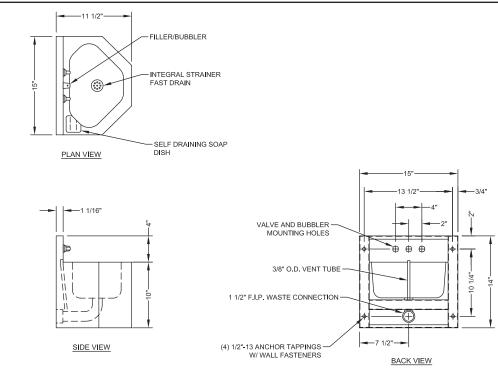
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1.) Base Model Number:		5.) Electronic Controls* (Must Use Electronic Push Button):
☐ HS-1013-46-15 15" Wide, Rear Mounted Lavatory		☐ WUCC-3010 ☐ Pneutronic ☐ WMSII
		(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)
2.) Bubbl	er Selection:	
■ BP	Penal Bubbler/Filler (Standard)	6.) Lavatory Waste:
□ BC	Code Bubbler/Filler	☐ EB Elbow Waste (Standard)
■ BPH	Ligature-resistant Bubbler/Filler	☐ PT Integral 'P'-Trap
☐ FL	Penal Lav. Filler	LWE Lavatory Waste Extension
☐ FLH	Ligature-resistant Lav. Filler	OV Lavatory Overflow
		☐ SLOW Slow Drain
3.) Lavato	ory Valve Selection:	☐ LW1 Thru-Wall Extension, 'P'-Trap
☐ NV	No Valve	☐ LW2 Thru-Wall Extension and Clean-Out
☐ 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	☐ TB1 Single Toothbrush Holder
■ E1L1	Single Temp. Electronic (pick control)*	☐ Right ☐ Left
■ E1L2	Dual Temp. Electronic (pick control)*	☐ TB2 Dual Toothbrush Holder
Valve Ma	nifold Options:	☐ Right ☐ Left
Pneuma	atic or Electronic Only:	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*
☐ MA2	☐ MA3 ☐ MA4	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
		☐ TH1 Single Towel Hook
4.) Lavato	ory Valve Actuation:	☐ Right ☐ Left
☐ PPB	Pneumatic Push Buttons	☐ TH2 Dual Towel Hook
□ PBH	Ligature-resistant Push Buttons	☐ Right ☐ Left
☐ EPB	Electronic Push Buttons*	☐ WS Wall Sleeve (Requires Accessible Chase)
☐ EPBH	Ligature-resistant Electronic Push Buttons*	☐ ISH Integral Shelf
☐ PZPB	Piezo Electronic Push Buttons	☐ VG Ventilation Grille (Specify Location and Free Area)
-		Other:
		Other:

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

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

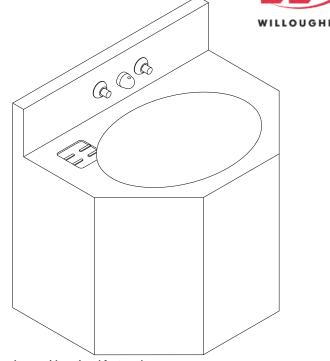
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HS-1013-46 **18" Wide Rear Mounted** Lavatory



(Unit may be shown with optional features)

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

Example: To specify an 18" Wide, Rear Mounted Lavatory with code bubbler, dual temp. pneumatic metering valve, pneumatic push buttons, elbow waste, and single towel hook

Use the following Willoughby Model Number: HS-1013-46-BC-PML2-PPB-EB-TH1

Recommended Specifications

18" Wide, Rear Mounted Lavatory shall be: Willoughby Model No. HS-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:

- 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

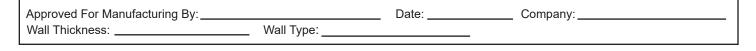
Cabinet interior shall be sound deadened with fire-resistant material.

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.

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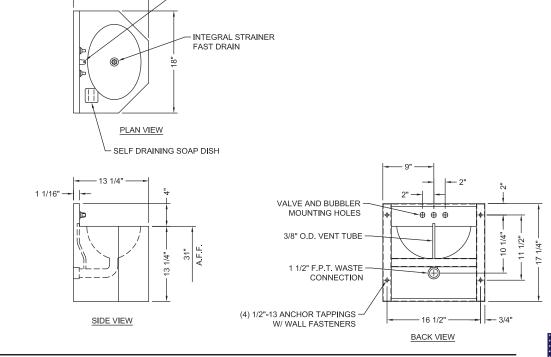
1.) Base N	Model Number:	6.) Lav	atory Waste:
☐ HS-10°	13-46 18" Wide, Rear Mounted Lavatory	☐ EB	Elbow Waste (Standard)
		PT	Integral 'P'-Trap
2.) Bubble	er Selection:	LWE	E Lavatory Waste Extension
☐ BP	Penal Bubbler/Filler (Standard)	OV	Lavatory Overflow
□ BC	Code Bubbler/Filler	☐ SLC	DW Slow Drain
■ BPH	Ligature-resistant Bubbler/Filler	LW′	Thru-Wall Extension, 'P'-Trap
☐ FL	Penal Lav. Filler	LW2	2 Thru-Wall Extension and Clean-Out
☐ FLH	Ligature-resistant Lav. Filler		
		7.) Opt	ions:
3.) Lavato	ory Valve Selection:	■ MT	Wall Template
■ NV	No Valve	☐ TB1	Single Toothbrush Holder
PSL1	Single Temp. Pneumatic Non-metering		☐ Right ☐ Left
PSL2	Dual Temp. Pneumatic Non-metering	☐ TB2	Dual Toothbrush Holder
☐ PML1	Single Temp. Pneumatic Metering		☐ Right ☐ Left
PML2	Dual Temp. Pneumatic Metering	☐ TF2	4H Hard-wired Transformer, 110VAC to 24VAC*
■ E1L1	Single Temp. Electronic (pick control)*	☐ TF2	4P Plug-in Transformer, 110VAC to 24VAC*
E1L2	Dual Temp. Electronic (pick control)*	☐ TH1	Single Towel Hook
Valve Mar	nifold Options:		☐ Right ☐ Left
Pneuma	tic or Electronic Only:	☐ TH2	P. Dual Towel Hook
☐ MA2	☐ MA3 ☐ MA4		☐ Right ☐ Left
		■ WS	Wall Sleeve (Requires Accessible Chase)
4.) Lavato	ory Valve Actuation:	□ ISH	Integral Shelf
PPB	Pneumatic Push Buttons	VG	Ventilation Grille (Specify Location and Free Area)
PBH	Ligature-resistant Push Buttons	Oth	er:
EPB	Electronic Push Buttons*	Oth	er:
EPBH	Ligature-resistant Electronic Push Buttons*	*(Red	. 110V power through ground fault interrupter (GFCI) receptacle)
PZPB	Piezo Electronic Push Buttons*		
5.) Electro	onic Controls* (Must Use Electronic Push Button):		
□ WUCC			
_	LICC-3010 Control can be used to pair a Lavatory with a Toilet)		



FILLER/BUBBLER

13 1/4"

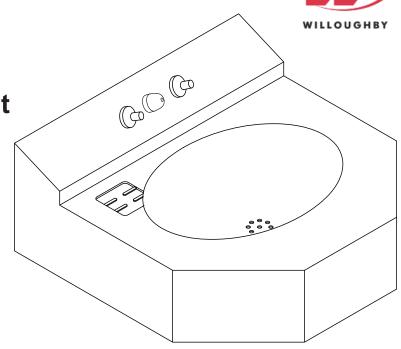
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HS-1013-46-HC **18" Wide Rear Mounted Handicap-ADA Compliant Lavatory**





(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 security penal filler/bubbler, dual temp. pneumatic metering valve, pneumatic push buttons, elbow waste, and single towel hook

Use the following Willoughby Model Number: HS-1013-46-HC-SBP-PML2-PPB-EB-TH1

Recommended Specifications

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" 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.

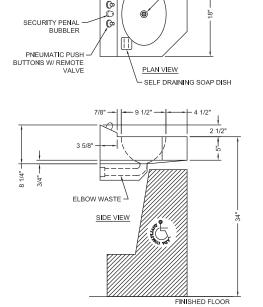


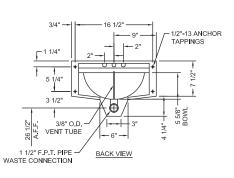
1.) Base Model Number:	6.) Lavatory Waste:
☐ HS-1013-46-HC 18" Wide, Rear Mounted,	☐ EB Elbow Waste (Standard)
Handicap-ADA Compliant Lavatory	☐ PT Integral 'P'-Trap
	☐ LWE Lavatory Waste Extension
2.) Bubbler Selection:	OV Lavatory Overflow
SBP Security Penal Bubbler/Filler (Standard)	☐ SLOW Slow Drain
☐ SBC Security Code Bubbler/Filler	☐ LW1 Thru-Wall Extension, 'P'-Trap
☐ SBPH Security Ligature-resistant Penal Bubbler/Filler	☐ LW2 Thru-Wall Extension and Clean-Out
3.) Lavatory Valve Selection:	7.) Options:
☐ NV No Valve	☐ MT Wall Template
☐ PML1 Single Temp. Pneumatic Metering	☐ TB1 Single Toothbrush Holder
☐ PML2 Dual Temp. Pneumatic Metering	☐ Right ☐ Left
☐ E1L1 Single Temp. Electronic (pick control)*	☐ TB2 Dual Toothbrush Holder
☐ E1L2 Dual Temp. Electronic (pick control)*	☐ Right ☐ Left
Valve Manifold Options:	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*
Pneumatic or Electronic Only:	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
□ MA2 □ MA3 □ MA4	☐ TH1 Single Towel Hook
	☐ Right ☐ Left
4.) Lavatory Valve Actuation:	☐ TH2 Dual Towel Hook
☐ PPB Pneumatic Push Buttons	☐ Right ☐ Left
☐ PBH Ligature-resistant Push Buttons	☐ WS Wall Sleeve (Requires Accessible Chase)
☐ EPB Electronic Push Buttons*	☐ PSL1-DMB Deck Mounted Bubbler/Filler**
☐ EPBH Ligature-resistant Electronic Push Buttons*	☐ PSL1-DMBH Ligature-resistant DM Bubbler/Filler**
☐ PZPB Piezo Electronic Push Buttons*	**(Panel Mounted Push Button)
	☐ Other:
5.) Electronic Controls* (Must Use Electronic Push Button):	☐ Other:
☐ WUCC-3010 ☐ Pneutronic ☐ WMSII	*(Req. 110V power through ground fault interrupter (GFCI) receptacle)
(The WLICC-3010 Control can be used to pair a Layatory with a Toilet)	

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

Wall Thickness: _____ Wall Type: _____ IN COMPLIANCE WITH A.D.A. 2010

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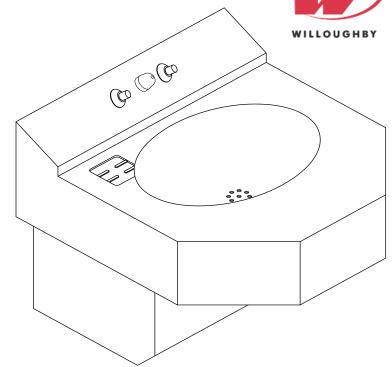


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HS-1013-46-HC-FA **18" Wide Front Access Handicap-ADA Compliant Lavatory**





(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 Access, Handicap-ADA Compliant Lavatory with security penal filler/bubbler and dual temp. pneumatic metering valve, pneumatic push buttons, and removable 'p' trap

Use the following Willoughby Model Number:
HS-1013-46-HC-FA-SBP-PML2-PPB-RPT

Recommended Specifications

18" Wide, Front Access, 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

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.



1.)	Base M	lodel Number:		6.) Lava	ator	y Waste:		
	HS-101	3-46-HC-FA	18" Wide, Front Access,	RPT	ГΙ	Removable	e 'P'-Trap	(Standard)
			Handicap-ADA Compliant Lavatory	OV	- 1	Lavatory C	verflow	
				☐ SLC) WC	Slow Drain	ı	
2.)	Bubble	r Selection:						
	SBP	Security Penal Bubb	ler/Filler (Standard)	7.) Opti	ions	: :		
	SBC	Security Code Bubb	er/Filler	■ MT	١	Wall Templ	ate	
	SBPH	Security Ligature-res	sistant Penal Bubbler/Filler	☐ TB1	;	Single Too	thbrush H	older
						Right		■ Left
3.)	Lavato	ry Valve Selection:		☐ TB2	2 1	Dual Tooth	brush Hol	der
	NV	No Valve				Right		☐ Left
	PML1	Single Temp. Pneuma	itic Metering	☐ TF2	24H	Hard-wire	ed Transfo	ormer, 110VAC to 24VAC*
	PML2	Dual Temp. Pneumati	c Metering	☐ TF2	24P	Plug-in T	ransforme	er, 110VAC to 24VAC*
	E1L1	Single Temp. Electron	ic (pick control)*	☐ TH1	: ا	Single Tow	el Hook	
	E1L2	Dual Temp. Electronic	(pick control)*			Right		☐ Left
				☐ TH2	2 1	Dual Towe	l Hook	
4.)	Lavato	ry Valve Actuation:				Right		☐ Left
	PPB	Pneumatic Push Butto	ons	PSL	_1-DI	MB	Deck Mou	unted Bubbler/Filler**
	PBH	Ligature-resistant Pus	h Buttons	PSL	_1-DI	MBH	Ligature-	resistant DM Bubbler/Filler**
	EPB	Electronic Push Butto	ns*				**(Panel I	Mounted Push Button)
	EPBH	Ligature-resistant Ele	ctronic Push Buttons*	Other	er: _			
	PZPB	Piezo Electronic Push	Buttons*	Other	er: _			
				*(Req	դ. 11(0V power t	hrough gr	ound fault interrupter (GFCI) receptacle)
5.)	Electro	nic Controls* (Must I	Jse Electronic Push Button):					
	WUCC-	-3010 🔲 Pneutr	onic WMSII					
	(The Wl	JCC-3010 Control can	be used to pair a Lavatory with a Toilet)					

Approved For Manufacturing By: Date: _ Company: Wall Thickness: . Wall Type: 20 1/4" IN COMPLIANCE WITH A.D.A. 2010 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. œ **③** 18 13" 0 **@** FILLER/BUBBLER SELF DRAINING SOAP DISH PLAN VIEW WALL MOUNTED PLATE WITH -2 1/2" (4) 3/8" MOUNTING HOLES (USED WITH SUPPLEMENTAL 'Z' CLIPS, WALL ANCHORS BY OTHERS) 34" A.F.F. MAX ADULT ADA 3/8" O.D. VENT TUBE (2) 1/2" H&C WATER -7 1/2" SUPPLY LINES 29" A.F.F. 3 5/8" 26 1/2" A.F.F. 4 (RPT) REMOVABLE 1-1/2" F.I.P. CAST BRASS 'P' TRAP 4 1/4" — REMOVABLE BOTTOM PANEL 1 1/2" 1 1/2" SECURED W/ SECURITY SCREWS 15" SIDE VIEW REAR VIEW

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HS-1013-96 **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 code bubbler, dual temp. pneumatic metering valve, pneumatic push buttons, integral 'p' trap, single towel hook, and wall sleeve

Use the following Willoughby Model Number: HS-1013-96-BC-PML2-PPB-PT-TH1-WS

Recommended Specifications

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" 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.



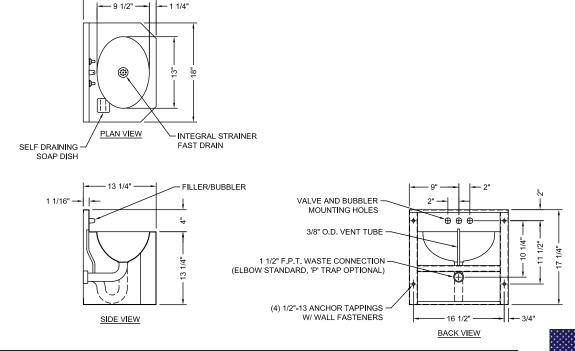
6.) Lavatory Waste: 1.) Base Model Number: ☐ EB ☐ HS-1013-96 18" Wide, Rear Mounted, Rectangular Cabinet Lavatory Elbow Waste (Standard) PT Integral 'P'-Trap 2.) Bubbler Selection: LWE Lavatory Waste Extension □ ВР Penal Bubbler/Filler (Standard) ☐ OV Lavatory Overflow □ вс Code Bubbler/Filler ☐ SLOW Slow Drain BPH LW1 Thru-Wall Extension, 'P'-Trap Ligature-resistant Bubbler/Filler Thru-Wall Extension and Clean-Out ☐ FL Penal Lav. Filler LW2 ☐ FLH Ligature-resistant Lav. Filler 7.) Options: 3.) Lavatory Valve Selection: □ MT Wall Template Single Toothbrush Holder ■ NV No Valve □ TB1 ☐ PSL1 Single Temp. Pneumatic Non-metering ☐ Right ☐ Left ☐ PSL2 Dual Temp. Pneumatic Non-metering TB2 **Dual Toothbrush Holder** ☐ PML1 Single Temp. Pneumatic Metering Right □ Left ☐ 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)* Single Towel Hook ☐ TH1 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: ☐ ISH Integral Shelf ☐ VG Ventilation Grille (Specify Location and Free Area) ■ PPB Pneumatic Push Buttons Ligature-resistant Push Buttons Other: □ PBH □ EPB Electronic Push Buttons* ☐ Other: ■ EPBH Ligature-resistant Electronic Push Buttons* *(Req. 110V power through ground fault interrupter (GFCI) receptacle) ■ PZPB Piezo Electronic Push Buttons* 5.) Electronic Controls* (Must Use Electronic Push Button): ■ WUCC-3010 Pneutronic ■ WMSII

Approved For Manufacturing By: ______ Date: _____ Company: _____ 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.

(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)

13 1/4" -



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HS-1013-96-FA **18" Wide Front Access 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 Access, Rectangular Cabinet Lavatory with code bubbler, dual temp. pneumatic metering valve, pneumatic push buttons, and removable 'p'-trap

.
Use the following Willoughby Model Number:
HS-1013-96-FA-BC-PML2-PPB-RPT

Recommended Specifications

18" Wide, Front Access, 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

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.

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1.) Base I	Model Number:	5.) Electronic Controls* (Must Use Electronic Push Button):
☐ HS-10	13-96-FA 18" Wide, Front Access, Rectangular Cabinet Lavatory	☐ WUCC-3010 ☐ Pneutronic ☐ WMSII (The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)
2.) Bubbl	er Selection:	,
☐ BP	Penal Bubbler/Filler (Standard)	6.) Lavatory Waste:
□ BC	Code Bubbler/Filler	RPT Removable 'P'-Trap (Standard)
■ BPH	Ligature-resistant Bubbler/Filler	OV Lavatory Overflow
☐ FL	Penal Lav. Filler	☐ SLOW Slow Drain
☐ FLH	Ligature-resistant Lav. Filler	
		7.) Options:
3.) Lavato	ory Valve Selection:	☐ MT Wall Template
■ NV	No Valve	☐ TB1 Single Toothbrush Holder
☐ PSL1	Single Temp. Pneumatic Non-metering	☐ Right ☐ Left
☐ PSL2	Dual Temp. Pneumatic Non-metering	☐ TB2 Dual Toothbrush Holder
☐ PML1	Single Temp. Pneumatic Metering	☐ Right ☐ Left
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
		☐ Right ☐ Left
4.) Lavato	ory Valve Actuation:	☐ TH2 Dual Towel Hook
PPB	Pneumatic Push Buttons	☐ Right ☐ Left
PBH	Ligature-resistant Push Buttons	☐ ISH Integral Shelf
EPB	Electronic Push Buttons*	☐ Other:
EPBH	Ligature-resistant Electronic Push Buttons*	☐ Other:
PZPB	Piezo Electronic Push Buttons*	*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

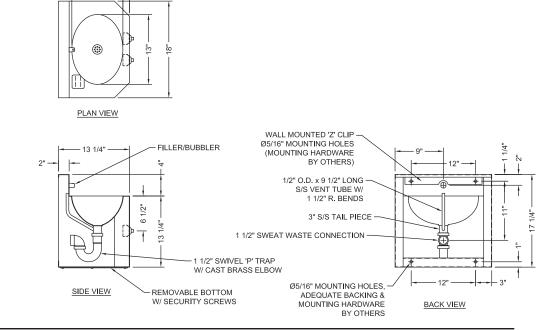
Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		

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S4-12

13 1/4" -

- 1 1/4"

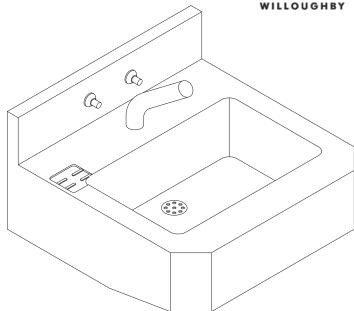


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HS-1014-96-HC **18" Wide Rear Mounted Handicap-ADA Compliant Rectangular Bowl Lavatory**





(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, pneumatic push buttons, deck mounted spout, standard elbow waste, and wall sleeve

Use the following Willoughby Model Number: HS-1014-96-HC-PML2-PPB-DMS-EB-WS

Recommended Specifications

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 5-1/2" deep
- 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.

Note: Only deck mounted Willoughby lavatory spouts and filler/bubblers are available with this lavatory model.

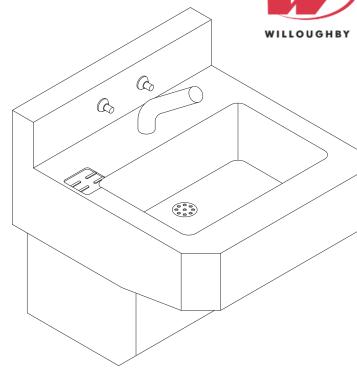


1.) Base Model	Number:	7.) Lavatory Waste:	
☐ HS-1014-96-I	HC 18" Wide, Rear Mounted, Handicap-ADA Compliant,	☐ EB Elbow Waste (Standa	ard)
	Rectangular Bowl Lavatory	☐ PT Integral 'P'-Trap	
		■ LWE Lavatory Waste Exter	nsion
2.) Spout/Bubbl	er Selection:	OV Lavatory Overflow	
☐ DMS Dec	k Mounted Spout	☐ SLOW Slow Drain	
■ DMB Dec	k Mounted Bubbler	■ LW1 Thru-Wall Extension,	'P'-Trap
☐ DMBH Liga	ture-resistant Deck Mounted Bubbler	LW2 Thru-Wall Extension	and Clean-Out
_			
3.) Lavatory Val	ve Selection:	8.) Options:	
•	alve (Select Hole Punching if needed)	☐ MT Wall Template	
_	e Temp. Pneumatic Metering	☐ TB1 Single Toothbrush Ho	older
	Temp. Pneumatic Metering	Right	Left
	e Temp. Electronic (pick control)*	☐ TB2 Dual Toothbrush Hold	
	Temp. Electronic (pick control)*	☐ Right	☐ Left
Valve Manifold	. ,	☐ TF24H Hard-wired Transfo	_
	Electronic Only:	☐ TF24P Plug-in Transforme	
☐ MA2 ☐ M		☐ TH1 Single Towel Hook	,
	_	Right	☐ Left
4.) Lavatory Val	ve Actuation:	☐ TH2 Dual Towel Hook	_
	matic Push Buttons	_ ☐ Right	☐ Left
	ure-resistant Push Buttons	_ •	ure exterior only - White)
_ •	ronic Push Buttons*	☐ WS Wall Sleeve (Require	,
_	ure-resistant Electronic Push Buttons*	☐ ISH Integral Shelf	,
_	Electronic Push Buttons*		ecify Location and Free Area)
	2.554.511.61.244.611.5	Other:	,
5.) Electronic Co	ontrols* (Must Use Electronic Push Button):	Other:	
☐ WUCC-3010			 ound fault interrupter (GFCI) receptacle)
_	3010 Control can be used to pair a Lavatory with a Toilet)	(req. 110 v pewer amough gre	out a laur monuplor (or on) recopiacie)
SP: _	ial Punching (Specify hole punching dim.) or Manufacturing By:	Date: (Company:
Wall Thickn	ess: Wall Type:		
	I→ 18" → BACKSP	LASH MOUNTED PUSH BUTTONS	
	"	LASH MOUNTED FOSH BUTTONS	0
	2" 9 1/2" INTEGRA	AL STRAINER FAST DRAIN	IN COMPLIANCE WITH A.D.A. 2010
SH-IN SE STION.			WITH A.D.A. 2010
	☐ (4CC)	(2 or 3) Ø1" HOLES ON 4" CENTERS	NOTE: 5" DEEP RECTANGULAR
S 등 등 등		Ø1" HOLE, CENTERSET	SINK BOWL
	DOUB	LE 'D' HOLES FOR DECK SPOUT	
œ ≅፟፟፟፟፟፟፟	AND E	BACKSPLASH PUSH BUTTONS	
R AL	1 3/4"		
l≿ šāl			
유	SELF DRA	AINING SOAP DISH	
ĬŽ ŠĀ	PLAN VIEW		
	<u>- ==</u>	-	18" ———
	— S/S DECK MOUNTED SPOUT		16 1/2"
		9" x 5" WALL CUTOUT NEEDED —	
S ES	1 1/16" -	FOR INSTALLATION	- 4" -
SS E E	12" 4"	Ti	2"
	- 2"	(4) 1/2"-13 ANCHOR TAPPINGS	
S 문		W/ WALL FASTENERS	
	\\\\	<u> </u>	10 1/2"
	2	(2) DOUBLE 'D' HOLES FOR —	
귀 뚫었		BACKSPLASH MOUNTED PUSH BUTTON HOLES	<u> </u>
I¥ ặ≅l			
ו חטיין	28g		3"
[문 길왕]	8" MIN 8" WIN	Ø3/8" VENT TUBE	3"
WILLC MENSIO	8" MIN	Ø3/8" VENT TUBE ————————————————————————————————————	3"
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUC WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AN DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGA	8" MIN SIDE VIEW	Ø3/8" VENT TUBE	

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HS-1014-96-HC-FA **18" Wide Front Access Handicap-ADA Compliant Rectangular Bowl Lavatory**



(Unit may be shown with optional features)

IN COMPLIANCE WITH A.D.A. 2010

Recommended Specifications

18" Wide, Front Access, 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 5-1/2" 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

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

Example: To specify an 18" Wide, Front Access, Handicap-ADA Compliant, Rectangular Bowl Lavatory with dual temp. pneumatic metering valve, pneumatic push buttons, deck mounted spout, standard removable 'p'-trap, and wall template

Use the following Willoughby Model Number: HS-1014-96-HC-FA-PML2-PPB-DMS-RPT-MT

Anchoring shall be from the front with 'z' clip, anchoring holes provided. Anchoring hardware by others. Unit requires no 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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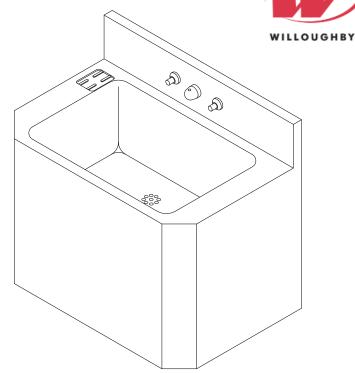
S4-15

1.) Base I	Model Number:		6.) Hole P	unching:
☐ HS-10	14-96-HC-FA	18" Wide, Front Access, Handicap-ADA	☐ 4CC	4" Centerset, Ø1" Holes (Specify 2 or 3 holes:)
		Compliant, Rectangular Bowl Lavatory	☐ 8CC	8" Centerset, Ø1" Holes (Specify 2 or 3 holes:)
			☐ 1CC	Center Shank, (1) Ø1" Hole
2.) Spout	Bubbler Selection:		☐ SP	Special Punching (Specify hole punching dim.)
DMS	Deck Mounted Spot	ut		SP:
DMB	Deck Mounted Bubb	oler		
DMBH	Ligature-resistant D	eck Mounted Bubbler	7.) Lavato	ory Waste:
			□ RPT	Removable 'P'-Trap (Standard)
3.) Lavato	ory Valve Selection:		OV	Lavatory Overflow
☐ NV	No Valve (Select Hole	e Punching if needed)	□ SLOW	Slow Drain
☐ PML1	Single Temp. Pneuma	atic Metering		
☐ PML2	Dual Temp. Pneumat	ic Metering	8.) Option	ns:
□ E1L1	Single Temp. Electron	nic (pick control)*	□ MT	Wall Template
☐ E1L2	Dual Temp. Electronic	c (pick control)*	□ TB1	Single Toothbrush Holder
				☐ Right ☐ Left
4.) Lavato	ory Valve Actuation:		☐ TB2	Dual Toothbrush Holder
☐ PPB	Pneumatic Push Butt	ons		☐ Right ☐ Left
□ PBH	Ligature-resistant Pu	sh Buttons	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC*
■ EPB	Electronic Push Butto	ons*	☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*
☐ EPBH	Ligature-resistant Ele	ctronic Push Buttons*	☐ TH1	Single Towel Hook
PZPB	Piezo Electronic Pusl	n Buttons*		☐ Right ☐ Left
			☐ TH2	Dual Towel Hook
5.) Electro	onic Controls* (Must	Use Electronic Push Button):		☐ Right ☐ Left
☐ WUCC	-3010	onic WMSII	DC	Decorator Color (Fixture exterior only - White)
(The W	UCC-3010 Control car	be used to pair a Lavatory with a Toilet)	☐ ISH	Integral Shelf
			Other:	
			Other:	
			*(Req. 1	10V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufac	turing By:	Date:	Company:
Wall Thickness:	Wall Type:		_
IOR TO ROUGH-IN ES IN DESIGN AND CURRING OBLIGATION.	INTEGRAL STRAINER FAST DRAIN SELF DRAINING SOAP DISH BACKSPLASH MOUNTED PUSH BUTTON PLAN MEW	4* 9 1/2" 19"	IN COMPLIANCE WITH A.D.A. 2010 NOTE: RECTANGULAR SINK BOWL, 5" DEPTH
D WIT	OUBLE 'D' HOLES FOR BACKSPLASH MOUNTED PUSH BUTTONS (4) Ø3/8" MOUNTING HOLES IN WALL DUNTING PLATE, W. 'Z' CLIPS AT TOP (ANCHORS BY OTHERS) 10-1/2" x 13-3/8" OPENING Ø1/2" H & C WATER SUPPLIES Ø3/8" LAV. VENT Ø1-1/2" F.I.P. WASTE CONNECTION, STUB OUT 4-1/2" (BY OTHERS) 1 1/2" (RPT	2 1/2" 4 1/2" 18 1/2" 1 1/2" 1 1/2" REMOVABLE CAST BRASS 'P' TRAP VABLE ACCESS PANEL W SECURITY SCREWS	(DMS) S/S DECK MOUNTED SPOUT 4" 5" 5" 34" (MAX ADULT ADA)

MADE IN THE **U.S.A**.

HS-1015-20 **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 code bubbler, dual temp, pneumatic metering valve, pneumatic push buttons, integral 'P' trap, single towel hook, and wall sleeve

Use the following Willoughby Model Number:
HS-1015-20-BC-PML2-PPB-PT-TH1-WS

Recommended Specifications

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:

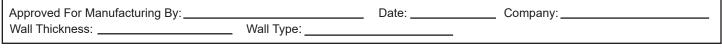
- Rectangular-shaped bowl, 9-1/2" x 14-1/2" x 6" deep
- Stainless steel penal bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" F.I.P.)
- Self-draining soap dish

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

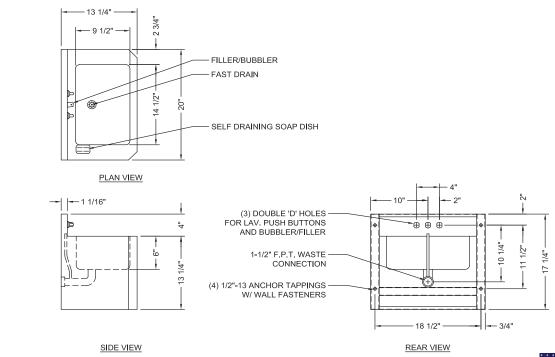
Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.



1.) Base I	Model Number:	6.) Lavatory Waste:
☐ HS-1015-20 20" Wide, Rear Mounted, Rectangular Bowl Lavatory		☐ EB Elbow Waste (Standard)
		☐ PT Integral 'P'-Trap
2.) Bubbl	er Selection:	☐ LWE Lavatory Waste Extension
☐ BP	Penal Bubbler/Filler (Standard)	OV Lavatory Overflow
□ BC	Code Bubbler/Filler	☐ SLOW Slow Drain
■ BPH	Ligature-resistant Bubbler/Filler	☐ LW1 Thru-Wall Extension, 'P'-Trap
☐ FL	Penal Lav. Filler	☐ LW2 Thru-Wall Extension and Clean-Out
☐ FLH	Ligature-resistant Lav. Filler	
		7.) Options:
3.) Lavato	ory Valve Selection:	☐ MT Wall Template
■ NV	No Valve	☐ TB1 Single Toothbrush Holder
☐ PSL1	Single Temp. Pneumatic Non-metering	☐ Right ☐ Left
☐ PSL2	Dual Temp. Pneumatic Non-metering	☐ TB2 Dual Toothbrush Holder
☐ PML1	Single Temp. Pneumatic Metering	☐ Right ☐ Left
☐ 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 Ma	nifold Options:	☐ Right ☐ Left
Pneuma	atic or Electronic Only:	☐ TH2 Dual Towel Hook
☐ MA2	☐ MA3 ☐ MA4	☐ Right ☐ Left
		WS Wall Sleeve (Requires Accessible Chase)
4.) Lavato	ory Valve Actuation:	☐ ISH Integral Shelf
☐ PPB	Pneumatic Push Buttons	☐ VG Ventilation Grille (Specify Location and Free Area)
□ PBH	Ligature-resistant Push Buttons	Other:
EPB	Electronic Push Buttons*	☐ Other:
□ ЕРВН	Ligature-resistant Electronic Push Buttons*	*(Req. 110V power through ground fault interrupter (GFCI) receptacle)
PZPB	Piezo Electronic Push Buttons*	
5.) Electr	onic Controls* (Must Use Electronic Push Button):	
☐ WUCC	C-3010 Pneutronic WMSII	
(The W	/UCC-3010 Control can be used to pair a Lavatory with a Toilet)	

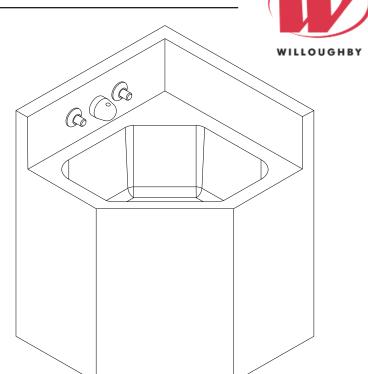


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CS-1013-46 13" Wide **Corner Lavatory**



(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 code bubbler, dual temp. pneumatic metering valve, pneumatic push buttons, elbow waste, and single towel hook

Use the following Willoughby Model Number: CS-1013-46-L-BC-PML2-PPB-EB-TH1

Recommended Specifications

13" Wide, 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" 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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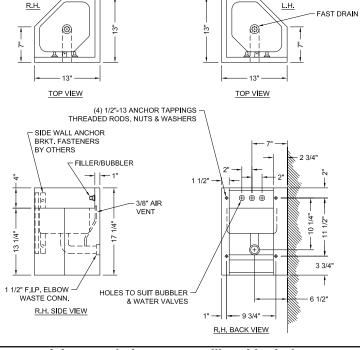
1.) Base Model Number:			6.) Electronic Controls* (Must Use Electronic Push Button):			
☐ CS-1013-46 13" Wide, Corner Lavatory		☐ WUCC-3010 ☐ Pneutronic ☐ WMSII				
			(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)			
2.) Cabine	t Mounting:					
L	Left Hand	7.) Lavato	ry Waste:			
☐ R	Right Hand	■ EB	Elbow Waste (Standard)			
			☐ PT Integral 'P'-Trap			
3.) Bubbler Selection:		LWE	NE Lavatory Waste Extension			
■ BP	Penal Bubbler/Filler (Standard)	OV	Lavatory Overflow			
□ BC	Code Bubbler/Filler	☐ SLOW	Slow Drain			
BPH	Ligature-resistant Bubbler/Filler	LW1	Thru-Wall Extension, 'P'-Trap			
☐ FL	Penal Lav. Filler	LW2	Thru-Wall Extension and Clean-Out			
☐ FLH	Ligature-resistant Lav. Filler					
	8.) Options:		s:			
4.) Lavato	ry Valve Selection:	■ MT	Wall Template			
■ NV	No Valve	☐ TB1	Single Toothbrush Holder			
PSL1	Single Temp. Pneumatic Non-metering		☐ Right ☐ Left			
PSL2	Dual Temp. Pneumatic Non-metering	☐ TB2	Dual Toothbrush Holder			
☐ PML1	Single Temp. Pneumatic Metering		☐ Right ☐ Left			
☐ 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			
Pneuma	tic or Electronic Only:	TH2	Dual Towel Hook			
■ MA2	☐ MA3 ☐ MA4		☐ Right ☐ Left			
		■ WS	Wall Sleeve (Requires Accessible Chase)			
5.) Lavatory Valve Actuation:		☐ VG	Ventilation Grille (Specify Location and Free Area)			
PPB	Pneumatic Push Buttons	Other:				
PBH	Ligature-resistant Push Buttons	Other:				
EPB	Electronic Push Buttons*	*(Req. 1	10V power through ground fault interrupter (GFCI) receptacle)			
☐ EPBH Ligature-resistant Electronic Push Buttons*						
PZPB	Piezo Electronic Push Buttons*					

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

CS-1013-46L

CS-1013-46R

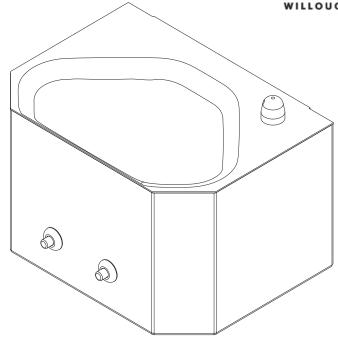
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CHS-1013-46 **China Alternative Lavatory**



(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 dual temp. pneumatic metering valve, pneumatic push buttons, elbow waste, and single towel hook

Use the following Willoughby Model Number:
CHS-1013-46-PML2-PPB-EB-TH1

Recommended Specifications

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

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.

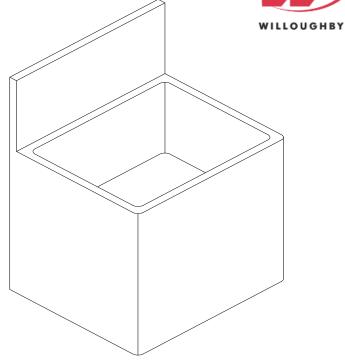


1.) Base Model Number:			6.) Lavatory Waste:			
CHS-1	013-46 China Alternative Lavatory			Integral Elbow Waste w/	6-1/2" Lav. Waste Extension and	
				1-1/2" No-hub Waste Co	nnection (Standard)	
2.) Bubbl	er Selection:		ЕΒ	Elbow Waste (Standard)		
DMB Deck Mounted Bubbler (Standard)		□ F	PT	Integral 'P'-Trap		
	,		WE	Lavatory Waste Extension	on	
3.) Lavate	ory Valve Selection:		VC	Lavatory Overflow		
☐ NV	No Valve		SLOW	Slow Drain		
☐ PSL1	Single Temp. Pneumatic Non-metering		_W1	Thru-Wall Extension, 'P'-	-Trap	
☐ PSL2	Dual Temp. Pneumatic Non-metering		W2	Thru-Wall Extension and Clean-Out		
☐ PML1	Single Temp. Pneumatic Metering					
☐ PML2	Dual Temp. Pneumatic Metering	7.) C	Options	s:		
■ E1L1	Single Temp. Electronic (pick control)*		ΜT	Wall Template		
☐ E1L2	Dual Temp. Electronic (pick control)*		ГВ1	Single Toothbrush Holde	er	
Valve Ma	nifold Options:			Right	L eft	
Pneuma	atic or Electronic Only:		ГВ2	Dual Toothbrush Holder		
☐ MA2	☐ MA3 ☐ MA4			☐ Right ☐	L eft	
			ΓF24H	Hard-wired Transforme	er, 110VAC to 24VAC*	
4.) Lavate	ory Valve Actuation:		ΓF24P	Plug-in Transformer, 1	10VAC to 24VAC*	
PPB	Pneumatic Push Buttons		ГН1	Single Towel Hook		
PBH	Ligature-resistant Push Buttons			☐ Right ☐	Left	
EPB	Electronic Push Buttons*		ГН2	Dual Towel Hook		
EPBH	Ligature-resistant Electronic Push Buttons*			☐ Right ☐	L eft	
PZPB	Piezo Electronic Push Buttons*	□ V	NS	Wall Sleeve (Requires A	ccessible Chase)	
			SH	Integral Shelf		
5.) Electr	onic Controls* (Must Use Electronic Push Button):		Other:			
☐ WUC	C-3010 Pneutronic WMSII					
(The W	/UCC-3010 Control can be used to pair a Lavatory with a Toilet)	*(F	Req. 11	0V power through groun-	d fault interrupter (GFCI) receptacle)	

Approved For Manufacturing By: Date: _ Company: _ Wall Thickness: . Wall Type: (DMB) DECK-MOUNTED PENAL BUBBLER, P/N: 380043 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. 2 1/2" 10 5/16" 15' FAST DRAIN 8 5/8" -(2) DOUBLE 'D' HOLES FOR LAV. VALVE PUSH BUTTONS PLAN VIEW - 1 1/2" INTEGRAL ELBOW WASTE W/ (4) 1/2"-13 ANCHOR 6-1/2" EXTENSION AND Ø1-1/2" TAPPINGS, ADEQUATE NO-HUB CONNECTION BACKING & MOUNTING 2 1/2" (STANDARD ON CHS-1013-46) HARDWARE BY OTHERS 2 1/2" 2 1/4" **-** 6 1/2" - 13 1/2" SIDE VIEW **BACK VIEW**

WILLDIGHBY

SS Series 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 with no valves and standard elbow waste

Use the following Willoughby Model Number:

SS-2219-NV-EB

Recommended Specifications

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.)

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.



1.) Base I	Nodel Number:	6.) Electronic Controls* (Must Use Electronic Push Button):
SS-22	19 22" x 19" Service Sink	☐ WUCC-3010 ☐ Pneutronic ☐ WMSII
SS-24	19 24" x 19" Service Sink	(The WUCC-3010 Control can be used to pair a Sink with a Toilet)
2.) Fixture	e Mounting & Waste:	7.) Hole Punching:
□ OF	Off-Floor, Wall Outlet	4CC 4" Centerset, Ø1" Holes (Specify 2 or 3 holes:)
☐ FM	On-Floor, Wall Outlet	 8CC 8" Centerset, Ø1" Holes (Specify 2 or 3 holes:) 1CC Center Shank, (1) Ø1" Hole
3.) Spout	Selection:	☐ SP Special Punching (Specify hole punching dim.)
☐ SE	Spout with Plain End	SP:
☐ SH	Spout with Hose End	
☐ VB Vacuum Breaker (For use with (SH) Hose End Spout) 8.) Lavatory Waste:		nd Spout) 8.) Lavatory Waste:
		☐ EB Elbow Waste (Standard)
4.) Lavato	ry Valve Selection:	☐ PT Integral 'P'-Trap
■ NV	No Valve (Select Hole Punching if needed	☐ LWE Lavatory Waste Extension
PSL1	Single Temp. Pneumatic Non-metering	
PSL2	Dual Temp. Pneumatic Non-metering	9.) Options:
PML1	Single Temp. Pneumatic Metering	☐ MT Wall Template
☐ PML2	Dual Temp. Pneumatic Metering	☐ WS Wall Sleeve (Requires Accessible Chase)
E1L1	Single Temp. Electronic (pick control)*	☐ SD Surface Mounted Soap Dish
■ E1L2	Dual Temp. Electronic (pick control)*	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*
Valve Mai	nifold Options:	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
Pneuma	tic or Electronic Only:	VG Ventilation Grille (Specify Location and Free Area)
☐ MA2	■ MA3 ■ MA4	DC Decorator Color (Fixture exterior only - White)
		TG 12 Gauge Cabinet
5.) Lavato	ry Valve Actuation:	☐ Other:
PPB	Pneumatic Push Buttons	☐ Other:
PBH	Ligature-resistant Push Buttons	*(Req. 110V power through ground fault interrupter (GFCI) receptacle)
EPB	Electronic Push Buttons*	
EPBH	Ligature-resistant Electronic Push Buttons	
PZPB	Piezo Electronic Push Buttons*	

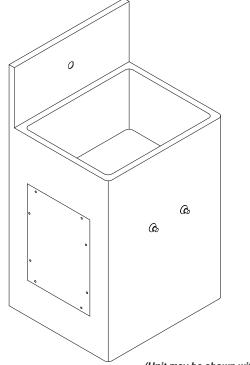
Approved For Manufacturing By: Date: _ Company: Wall Thickness: . Wall Type: 22' 20" VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION. ☐ 'OF' = WALL HUNG
☐ 'FM' = FLOOR MOUNT INTEGRAL STRAINER DRAIN 16 PLAN VIEW CUT HOLES TO SUIT WATER VALVE SELECTED 10, '0F' = 20"₩ 1/2"-13 ANCHOR TAPPINGS **⊢**4 1/2" S/S INTEGRAL WASTE 2" ELBOW WASTE (STD.) 2" 'P' TRAP WASTE BACK VIEW SIDE VIEW

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SS-FA Series Front Access 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 Access Service Sink, 22" x 20" with plain end spout, dual temp. pneumatic metering valve, pneumatic push buttons, and removable 'p'-trap

Use the following Willoughby Model Number: SS-2219-FM-FA-SE-PML2-PPB-RPT

Recommended Specifications

Front Access 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

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.



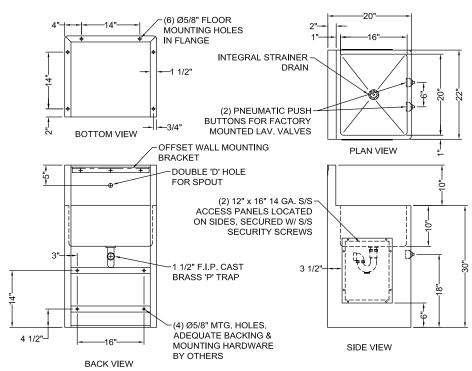
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1.) Base Mode	el Number:	5.) Electronic Controls* (Must Use Electronic Push Button):	
☐ SS-2219-FM-FA 22" x 19" Front Access Service Sink		☐ WUCC-3010 ☐ Pneutronic ☐ WMSII	
	(Floor Mounted, Wall Outlet)	(The WUCC-3010 Control can be used to pair a Sink with a Toilet)	
SS-2419-FM-FA 24" x 19" Front Access Service Sink (Floor Mounted, Wall Outlet)			
		6.) Hole Punching:	
		4CC 4" Centerset, Ø1" Holes (Specify 2 or 3 holes:)	
2.) Spout Sele	ection:	8CC 8" Centerset, Ø1" Holes (Specify 2 or 3 holes:)	
☐ SE Spo	out with Plain End	☐ 1CC Center Shank, (1) Ø1" Hole	
SH Spo	out with Hose End	SP Special Punching (Specify hole punching dim.)	
☐ VB Vac	cuum Breaker (For use with (SH) Hose End Spout)	SP:	
3.) Lavatory Valve Selection:		7.) Lavatory Waste:	
NV No	Valve (Select Hole Punching if needed)	RPT Removable 'P'-Trap (Standard)	
PSL1 Single	gle Temp. Pneumatic Non-metering		
🔲 PSL2 Dua	al Temp. Pneumatic Non-metering	8.) Options:	
PML1 Single	gle Temp. Pneumatic Metering	☐ MT Wall Template	
PML2 Dua	al Temp. Pneumatic Metering	☐ SD Surface Mounted Soap Dish	
E1L1 Sing	gle Temp. Electronic (pick control)*	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*	
🔲 E1L2 Dua	al Temp. Electronic (pick control)*	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*	
		VG Ventilation Grille (Specify Location and Free Area)	
1.) Lavatory Valve Actuation:		DC Decorator Color (Fixture exterior only - White)	
PPB Pne	eumatic Push Buttons	☐ TG 12 Gauge Cabinet	
☐ PBH Liga	ature-resistant Push Buttons	☐ Other:	
☐ EPB Ele	ctronic Push Buttons*	Other:	
EPBH Liga	ature-resistant Electronic Push Buttons*	*(Req. 110V power through ground fault interrupter (GFCI) receptact	



☐ PZPB Piezo Electronic Push Buttons*

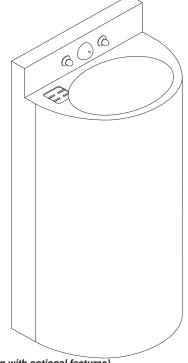


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ASHS-1013-06 18" Wide Rear Mounted Ligature-resistant Lavatory



(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

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" F.I.P.)
- Self-draining soap dish

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.



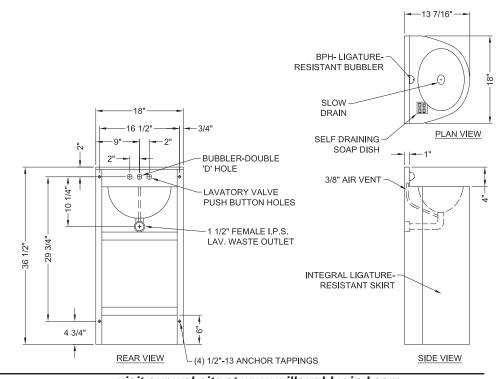
1.) Base Model Number: 18" Wide, Rear Mounted, Ligature-resistant Lavatory ☐ ASHS-1013-06 2.) Bubbler Selection: ☐ BPH Ligature-resistant Bubbler/Filler (Standard) ☐ FLH Ligature-resistant Lav. Filler 3.) Lavatory Valve Selection: ■ NV No Valve ☐ PSL1 Single Temp. Pneumatic Non-metering ☐ PSL2 Dual Temp. 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)* Valve Manifold Options: Pneumatic or Electronic Only: ■ MA2 ■ MA3 ■ MA4 4.) Lavatory Valve Actuation: ☐ PBH Ligature-resistant Push Buttons ☐ EPBH Ligature-resistant Electronic Push Buttons* ■ PZPB 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)

6.) Lavatory waste:				
EB	Elbow Waste (Standard)			
□ PT	Integral 'P'-Trap			
■ LWE	Lavatory Waste Extension			
OV	Lavatory Overflow			
■ LW1	Thru-Wall Extension, 'P'-Trap			
LW2	Thru-Wall Extension and Clean-Out			
□ SLOW	Slow Drain (Standard)			
7.) Option	s:			
■ MT	Wall Template			
☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC*			
☐ TF24P	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)			
Other:				
Other:				
*(Req. 1	10V power through ground fault interrupter (GFCI) receptacle)			

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

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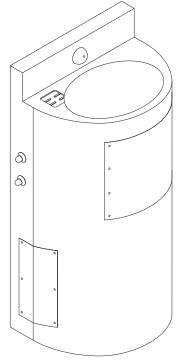


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ASHS-1013-06-FA 18" Wide Front Access Ligature-resistant Lavatory



(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, Front Access, 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

18" Wide, Front Access, 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

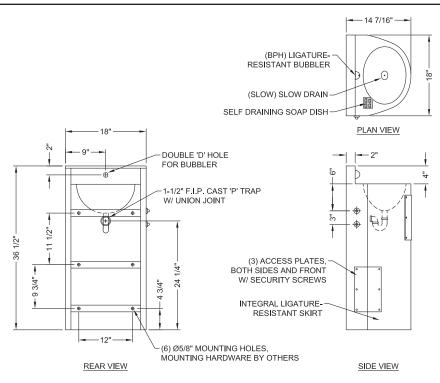
Anchoring shall be from the front with anchoring holes provided. Anchoring hardware by others. Unit requires no chase area for installation and maintenance.



1.) Base I	Model Number:	5.) Electronic Controls* (Must Use Electronic Push Button):			
ASHS-1013-06-FA 18" Wide, Front Access, Ligature-resistant Lavatory		☐ WUCC-3010 ☐ Pneutronic ☐ WMSII (The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)			
2.) Bubbl	er Selection:	6.) Lavatory Waste:			
■ BPH	Ligature-resistant Bubbler/Filler (Standard)	RPT Removable 'P'-Trap (Standard)			
☐ FLH	FLH Ligature-resistant Lav. Filler OV Lavatory Overflow				
		SLOW Slow Drain (Standard)			
3.) Lavato	ory Valve Selection:				
■ NV	No Valve	7.) Options:			
☐ PSL1	Single Temp. Pneumatic Non-metering				
☐ PSL2	Dual Temp. Pneumatic Non-metering	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*			
PML1	Single Temp. Pneumatic Metering	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*			
☐ PML2	Dual Temp. Pneumatic Metering	☐ TH1 Single Towel Hook			
□ E1L1	Single Temp. Electronic (pick control)*	☐ Right ☐ Left			
■ E1L2	Dual Temp. Electronic (pick control)*	☐ TH2 Dual Towel Hook			
		☐ Right ☐ Left			
4.) Lavato	ory Valve Actuation:	☐ Other:			
PBH	Ligature-resistant Push Buttons	☐ Other:			
■ EPBH	Ligature-resistant Electronic Push Buttons*	*(Req. 110V power through ground fault interrupter (GFCI) receptacle)			
PZPB	Piezo Electronic Push Buttons*				

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

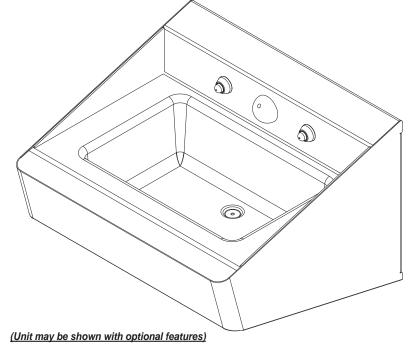
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WBLS-2018-HC Ligature-resistant **Rear Mounted** Stainless Steel **Behavioral Lavatory**





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

Recommended Specifications

Ligature-resistant Rear Mounted Stainless Steel 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. 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" F.I.P.)
- 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 lavatory is rear-access and does not have any exposed fasteners.

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.

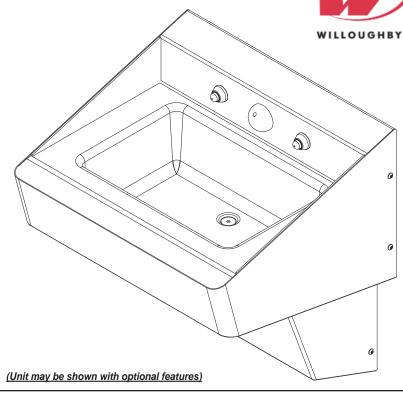
1.) Base I	Model Number:		6.) Lavato	ry Waste:
WBLS-	-2018-HC	Ligature-resistant Rear Mounted Stainless	☐ EB	Elbow Waste (Standard)
		Steel Behavioral Lavatory	LWE	Lavatory Waste Extension
		•	☐ SLOW	Slow Drain (Standard)
2.) Bubble	er Selection:		☐ LW1	Thru-Wall Extension, 'P'-Trap
☐ BPH		Bubbler/Filler (Standard)	☐ LW2	Thru-Wall Extension and Clean-Out
_	Ligature-resistant L	,	_	
	9		7.) Option	s:
3.) Lavato	ory Valve Selection:		☐ MT	Wall Template
□ NV	No Valve		_	Hard-wired Transformer, 110VAC to 24VAC*
_	Single Temp. Pneu	matic Metering	_	Plug-in Transformer, 110VAC to 24VAC*
	Dual Temp. Pneum		☐ TH1	Single Towel Hook
_	Single Temp. Electr	•	_	☐ Right ☐ Left
	Dual Temp. Electro	**	☐ TH2	Dual Towel Hook
_	nifold Options:	,	_	☐ Right ☐ Left
	atic or Electronic Only	v:	□ WS	Wall Sleeve (Requires Accessible Chase)
	☐ MA3 ☐ MA4		DC	Decorator Color (Fixture exterior only - White)
_			Other:	
4.) Lavato	ory Valve Actuation:	:	Other:	
•	Ligature-resistant F		*(Req. 1	10V power through ground fault interrupter (GFCI) receptacle)
_	•	Electronic Push Buttons*	` .	
☐ PZPB	Piezo Electronic Pu	ush Buttons*		
5.) Electro	onic Controls* (Mus	st Use Electronic Push Button):		
☐ WUCC	C-3010 🔲 Pnei	utronic		

(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)

Approved For Manufacturing By: Date: _ Company: Wall Thickness: Wall Type: IN COMPLIANCE WITH A.D.A. 2010 (2) DOUBLE 'D' HOLES FOR LAV. PUSH BUTTONS SLOW DRAIN 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. BPH: LIGATURE-RESISTANT BUBBLER 18-5/8' 3/4" 2-5/8" 0 0 9-15/16' EB: 1-1/2" F.I.P. 33-3/4" (34" ADA MAX) 27-7/16" 25-1/16" FINISHED FLOOR

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WBLS-2018-HC-FA Ligature-resistant Front Access Stainless Steel Behavioral Lavatory





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

Example: To specify a Ligature-resistant Front Access 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

Recommended Specifications

Ligature-resistant Front Access Stainless Steel 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. 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

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.

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.

1.) Base I	Model Number:		6.) Lavato	ry Waste:	
■ WBLS	-2018-HC-FA	Ligature-resistant Front Access Stainless	RPT	Removable P-trap (\$	Standard)
		Steel Behavioral Lavatory	OV	Lavatory Overflow	
			□ SLOW	Slow Drain (Standar	rd)
2.) Bubble	er Selection:				
BPH	Ligature-resistant Bu	bbler/Filler (Standard)	7.) Option	s:	
☐ FLH	Ligature-resistant Lav	v. Filler	□ MT	Wall Template	
			☐ TF24H	Hard-wired Transfo	rmer, 110VAC to 24VAC*
3.) Lavato	ory Valve Selection:		☐ TF24P	Plug-in Transformer	r, 110VAC to 24VAC*
☐ NV	No Valve		☐ TH1	Single Towel Hook	
☐ PML1	Single Temp. Pneum	atic Metering		Right	☐ Left
☐ PML2	Dual Temp. Pneumat	ic Metering	☐ TH2	Dual Towel Hook	
■ E1L1	Single Temp. Electron	nic (pick control)*		☐ Right	☐ Left
■ E1L2	Dual Temp. Electroni	c (pick control)*	DC	Decorator Color (Fixto	ure exterior only - White)
			Other:		
4.) Lavato	ory Valve Actuation:		Other:		
PBH	Ligature-resistant Pu	sh Buttons	*(Req. 1	10V power through gro	ound fault interrupter (GFCI) receptacle)
EPBH	Ligature-resistant Ele	ectronic Push Buttons*			
☐ PZPB	Piezo Electronic Pus	h Buttons*			
5.) Electro	onic Controls* (Must	Use Electronic Push Button):			
☐ WUCC	C-3010	ronic WMSII			
(The W	UCC-3010 Control car	n be used to pair a Lavatory with a Toilet)			

Approved For Manufacturing By: Date: _ Company: Wall Thickness: Wall Type: PBH: LIGATURE-RESISTANT IN COMPLIANCE WITH A.D.A. 2010 PNEUMATIC PUSHBUTTONS 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. SLOW DRAIN BPH: LIGATURE-RPT: 1-1/2" F.I.P. RESISTANT BUBBLER LAVATORY WASTE REMOVABLE P-TRAP Ø1-1/2" FIP WASTE CONNECTION 33-3/4" 34" ADA MAX) 26-1/4" FINISHED FLOOR visit our website at www.willoughby-ind.com

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LAVATORY BUBBLER SELECTION

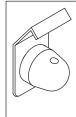


MACHINED STAINLESS STEEL



PENAL BUBBLER PROVIDES A FLOW OF WATER FOR DRINKING AND FILLING THE BASIN

(BP) PENAL BUBBLER/FILLER



MACHINED STAINLESS STEEL

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

(BC) CODE BUBBLER/FILLER

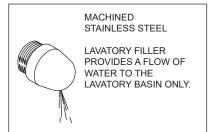


MACHINED STAINLESS STEEL



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

(BPH) LIGATURE-RESISTANT **BUBBLER/FILLER**



(FL) PENAL LAV. FILLER

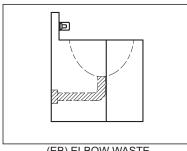
MACHINED STAINLESS STEEL



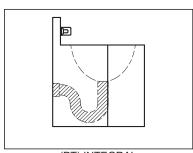
HEMISPHERICAL LAVATORY FILLER PROVIDES A FLOW OF WATER TO THE LAVATORY BASIN ONLY. DESIGN IS LIGATURE-RESISTANT.

(FLH) LIGATURE-RESISTANT LAV. **FILLER**

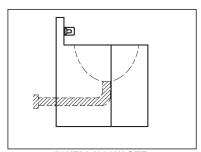
LAVATORY WASTE



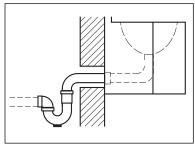
(EB) ELBOW WASTE (STANDARD) (1-1/2" F.I.P.)



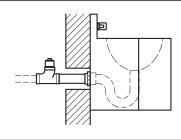
(PT) INTEGRAL 'P'TRAP (1-1/2" F.I.P.)



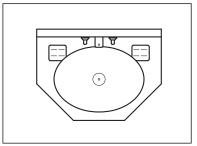
(LWE) LAV. WASTE EXTENSION (1-1/2" F.I.P. TYP.)



(LW1) BRASS THROUGH-WALL EXTENSION, 'P'TRAP, & CLEAN-OUT (FOR USE W/ (EB) ELBOW WASTE



(LW2) BRASS THROUGH-WALL **EXTENSION & CLEAN-OUT (FOR** USE W/ (PT) INTEGRAL 'P'TRAP)



(SLOW) SLOW DRAIN SINGLE DRAIN HOLE

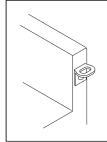
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OTHER OPTIONS





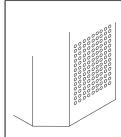
CONSTRUCTED FROM TYPE 304

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.

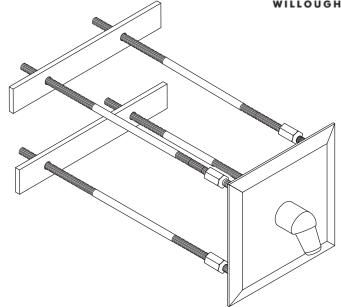
THIS PRESSURE ACTIVATED RELEASE TOWEL HOOK WILL SUPPORT LIGHT CLOTHING & TOWEL LOADS, HOWEVER, EXCESSIVE LOADS PLACED ON THE HOOK WILL CAUSE IT TO RELEASE DOWNWARD.

(TH1__) SINGLE TOWEL HOOK (TH2__) DUAL TOWEL HOOK (SPECIFY (R) RIGHT OR (L) LEFT)



W

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:

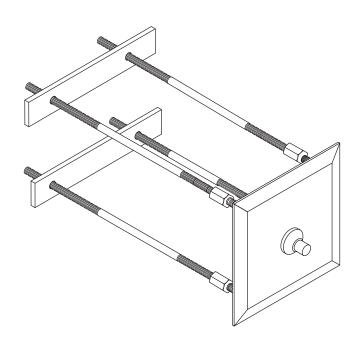
- Shower valve (Select from Valve Selection options list)
- (NPS) non-adjustable penal shower head

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.)



(Unit may be shown with optional features)

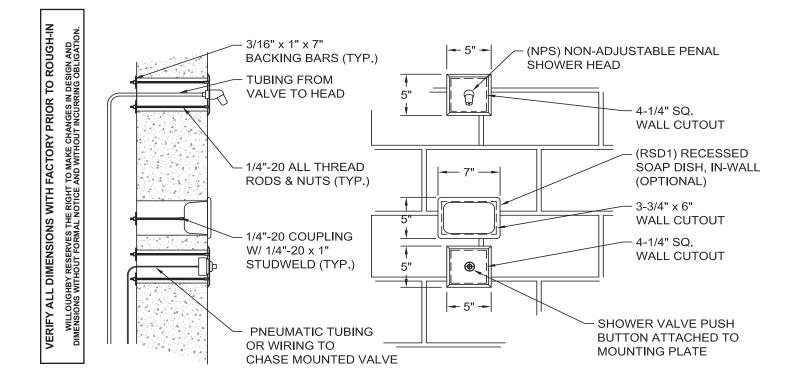
To specify fixture and accessories, use the Model Number and Options page. $\label{eq:continuous}$

Example: To specify a Rear Mounted Built-In Shower with single temp. pneumatic metering valve, standard 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-PPB-2.5GPM-NPS-TMV-RSD1

1.) Base I	Model Number:	4.) Flow Rates:				
☐ WBIS	Rear Mounted Built-In Shower	☐ 2.5 GPM (Standard) ☐ 2.0 GPM ☐ 1.5 GPM				
2.) Valve	Selection:	5.) Electronic Controls* (Must Use Electronic Push Button):				
■ NV	No Valve	☐ WUSC-2200 ☐ WUSC-2400 ☐ Pneutronic ☐ WMS II				
☐ PML1	Single Temp. Pneumatic Metering					
☐ PML2	Dual Temp. Pneumatic Metering	6.) Shower Head Selection:				
■ E1L1	Single Temp. Electronic (Pick Control)*	■ NPS Non-adjustable Penal Shower Head (Standard)				
■ E1L2	Dual Temp. Electronic (Pick Control)*	☐ APS Adjustable Penal Shower Head				
☐ MA2	Valve Manifold Option (Pneumatic or Electronic Valves Only):	☐ CSH Ligature-resistant Shower Head				
	(See the Manifold Option Page at the end of					
	Catalog Section S5 for further information)	7.) Options:				
		☐ TMV In-line Thermostatic Mixing Valve				
3.) Push I	Button Selection:	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*				
Pneumati	c or Electronic Valves Only:	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*				
PPB	Pneumatic Push Buttons	☐ SD Surface Mounted Soap Dish (Wall Mounted)				
PBH	Ligature-resistant Push Buttons	RSD1 Recessed Soap Dish (In-Wall Mounted)				
EPB	Electronic Push Buttons*	□ Other				
EPBH	Ligature-resistant Electronic Push Buttons*	☐ Other				
□ PZPB	Piezo Push Buttons*	*(Req. 110V power through ground fault interrupter (GFCI) receptacle)				

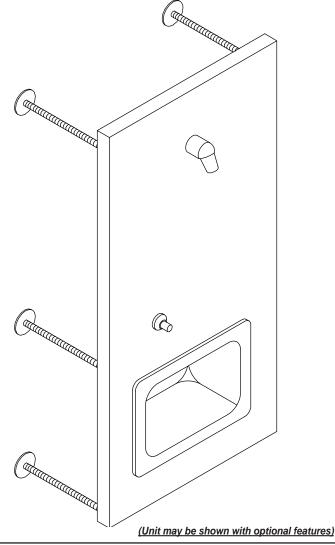
Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		. ,







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.

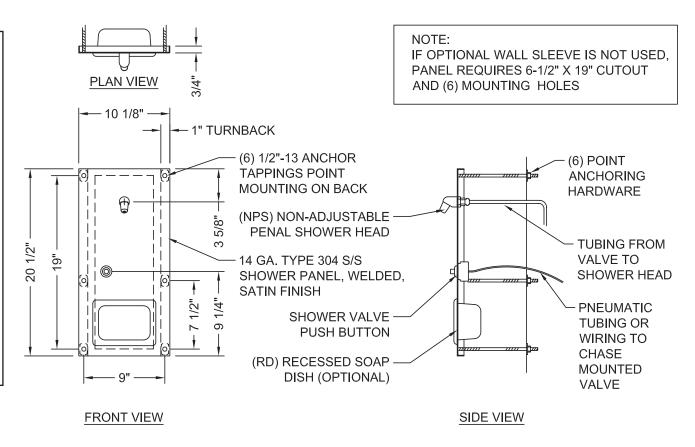
To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Rear Mounted Recessed Shower Panel with single temp. pneumatic metering valve, standard 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-PPB-2.5GPM-NPS-TMV-RD

1.) Base Model Number:			5.) Electronic Controls* (Must Use Electronic Push Button):				
■ WRS	Rear Mounted Recessed Shower Panel	☐ WUSC-	-2200	■ WUSC-2400	Pneutronic	■ WMS II	
2.) Valve S	election:	6.) Showe	r Head Sel	ection:			
■ NV	No Valve	■ NPS	Non-adju	ıstable Penal Shower	Head (Standard)		
PML1	Single Temp. Pneumatic Metering	APS	Adjustabl	le Penal Shower Hea	d		
PML2	Dual Temp. Pneumatic Metering						
■ E1L1	Single Temp. Electronic (Pick Control)*	7.) Option	s:				
■ E1L2	Dual Temp. Electronic (Pick Control)*	■ TMV	In-line Th	nermostatic Mixing Va	ılve		
Valve Man	ifold 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	RD RD	Recesse	d Mounted Soap Dish	า		
	Catalog Section S5 for further information)	☐ SD	Surface I	Mounted Soap Dish			
■ MA2		■ WS	Wall Slee	eve (Requires Access	ible Chase)		
		□ MT	Wall Tem	plate			
3.) Push B	utton Selection:	Other					
Pneumatic	or Electronic Valves Only:	Other					
□ PPB	Pneumatic Push Buttons	*(Req. 1	10V power	through ground fault i	interrupter (GFCI) re	eceptacle)	
EPB	Electronic Push Buttons*						
PZPB	Piezo Push Buttons*						
4.) Flow Ra	ates:						
□ 2.5 GPN	M (Standard)						

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



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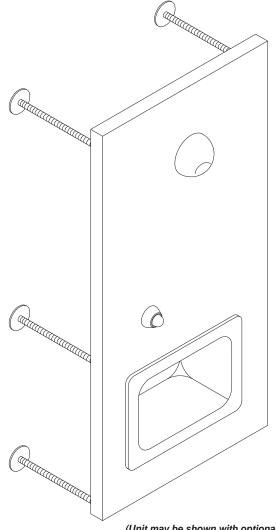
□ 2.0 GPM□ 1.5 GPM

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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ASWRS Series Ligature-resistant **Rear Mounted Recessed Shower Panel**



(Unit may be shown with optional features)

Recommended Specifications

Ligature-resistant, Rear Mounted, Recessed Shower Panel shall be: Willoughby Model No. ASWRS (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)
- (CSH) ligature-resistant, vandal resistant 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.

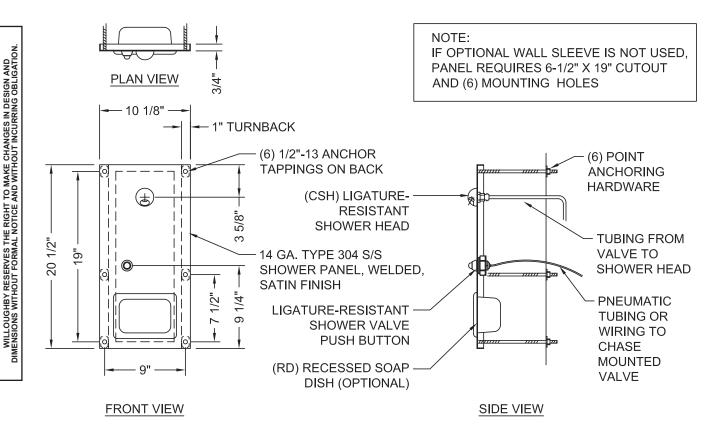
To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant, Rear Mounted, Recessed Shower Panel with single temp. pneumatic metering valve, (PBH) push button, standard 2.5 GPM flow rate, standard (CSH) shower head, in-line thermostatic mixing valve, and recessed mounted soap dish

Use the following Willoughby Model Number: ASWRS-PML1-PBH-2.5GPM-CSH-TMV-RD

5.) Electronic Controls* (Must Use Electronic Push Button): 1.) Base Model Number: ☐ WUSC-2400 ☐ ASWRS Ligature-resistant Rear Mounted Recessed Shower Panel ☐ WUSC-2200 ■ Pneutronic 2.) Valve Selection: 6.) Shower Head Selection: □ NV No Valve ☐ CSH Ligature-resistant Shower Head (Standard) ☐ PML1 Single Temp. Pneumatic Metering ☐ PML2 Dual Temp. Pneumatic Metering 7.) Options: Single Temp. Electronic (Pick Control)* □ TMV ■ E1L1 In-line Thermostatic Mixing Valve ■ E1L2 Dual Temp. Electronic (Pick Control)* ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* Valve Manifold Option: ☐ TF24P Plug-in Transformer, 110VAC to 24VAC* Pneumatic or Electronic Valves Only: ☐ RD Recessed Mounted Soap Dish (See the Manifold Option Page at the end of WS Wall Sleeve (Requires Accessible Chase) Catalog Section <u>S5</u> for further information) ■ MT Wall Template ☐ MA2 Other Other 3.) Push Button Selection: *(Req. 110V power through ground fault interrupter (GFCI) receptacle) Pneumatic or Electronic Valves Only: □ PBH Ligature-resistant Push Buttons □ EPBH Ligature-resistant Electronic Push Buttons* PZPB Piezo Push Buttons* 4.) Flow Rates: 2.5 GPM (Standard)

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



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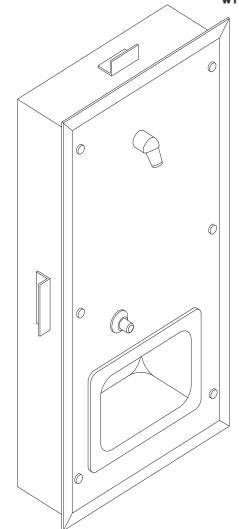
☐ WMS II

■ 2.0 GPM ■ 1.5 GPM

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

W)

WRS-FA Series Front Mounted Recessed Shower Panel



(Unit may be shown with optional features)

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

Shower panel shall attach to mounting frame with vandal resistant stainless steel screws. Unit requires no chase area for installation and maintenance.

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 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-PPB-2.5GPM-NPS-TMV-RD

1.) Base Model Number: □ WRS-FA Front Mounted Recessed Shower Panel 2.) Valve Selection: □ NV No Valve ☐ PML1 Single Temp. Pneumatic Metering ☐ PML2 Dual Temp. Pneumatic Metering Single Temp. Electronic (Pick Control)* ■ E1L1 ☐ E1L2 Dual Temp. Electronic (Pick Control)* 3.) Push Button Selection: Pneumatic or Electronic Valves Only: ☐ PPB Pneumatic Push Buttons ■ EPB Electronic Push Buttons* PZPB Piezo Push Buttons* 4.) Flow Rates: ☐ 2.5 GPM (Standard)

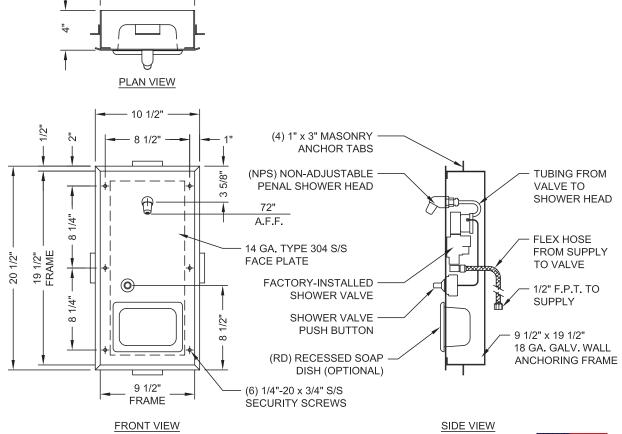
5.) Electronic Controls* (Must Use Electronic Push Button):						
☐ WUSC-	2200	☐ WU	SC-2400	Pneutroni	c	
6.) Shower	Head Se	lection:				
☐ NPS	,			er Head (Standard	d)	
☐ APS	Adjustat	le Penal	Shower He	ead		
7.) Options	s:					
TMV	In-line T	hermosta	tic Mixing	Valve		
☐ TF24H	Hard-wii	ed Trans	former, 110	OVAC to 24VAC*		
☐ TF24P	Plug-in ⁻	Γransforn	ner, 110VA	C to 24VAC*		
RD			ed Soap D			
SD	Surface	Mounted	Soap Dish	1		
Other .				-		
Other .	ΩV nower	through	around fau	- Ilt interrupter (GFC	'I) recentacle)	
(ixeq. ii	ov bowei	unougn	ground lad	iit iiiterrupter (Gr C	i) receptable)	

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

9 1/2" -



□ 2.0 GPM□ 1.5 GPM



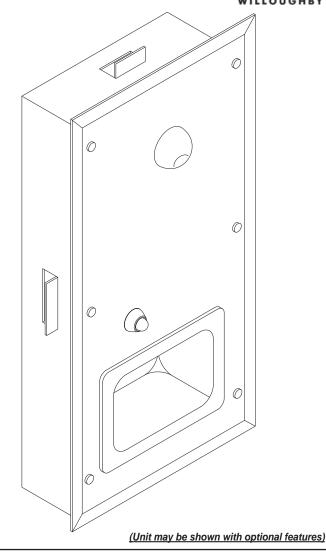
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ASWRS-FA Series Ligature-resistant Front Mounted Recessed Shower Panel



Recommended Specifications

Ligature-resistant, Front Mounted, Recessed Shower Panel shall be: Willoughby Model No. **ASWRS-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)
- (CSH) ligature-resistant, vandal resistant shower head

Shower panel shall attach to mounting frame with vandal resistant stainless steel screws. Unit requires no chase area for installation and maintenance.

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

Example: To specify a Ligature-resistant, Front Mounted, Recessed Shower Panel with single temp. pneumatic metering valve, (PBH) push button, standard 2.5 GPM flow rate, standard (CSH) shower head, in-line thermostatic mixing valve, and recessed mounted soap dish

Use the following Willoughby Model Number:
ASWRS-FA-PML1-PBH-2.5GPM-CSH-RD-TMV

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S5-9

1.) Base Model Number:

☐ ASWRS-FA Ligature-resistant, Front Mounted, Recessed Shower Panel

2.) Valve Selection:

☐ NV No Valve

PML1 Single Temp. Pneumatic MeteringPML2 Dual Temp. Pneumatic Metering

☐ E1L1 Single Temp. Electronic (Pick Control)*

☐ E1L2 Dual Temp. Electronic (Pick Control)*

3.) Push Button Selection:

Pneumatic or Electronic Valves Only:

☐ PBH Ligature-resistant Push Buttons

■ EPBH Ligature-resistant Electronic Push Buttons*

■ PZPB Piezo Push Buttons*

4.) Flow Rates:

2.5 GPM (Standard)

■ 2.0 GPM

■ 1.5 GPM

E \	Flootronio	Controlo*	/8/1	1100	Electronia	Duck	Dutton).
ວ.)	Electronic	Controls"	(WUST	use	Electronic	Pusn	Button):

☐ WUSC-2200
☐ WUSC-2400
☐ F

☐ Pneutronic [

■ WMS II

6.) Shower Head Selection:

☐ CSH Ligature-resistant Shower Head (Standard)

7.) Options:

☐ 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

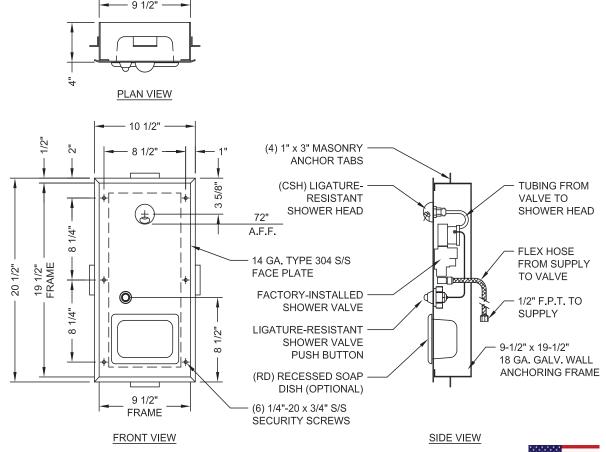
□ Other□ Other

Other ____

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

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





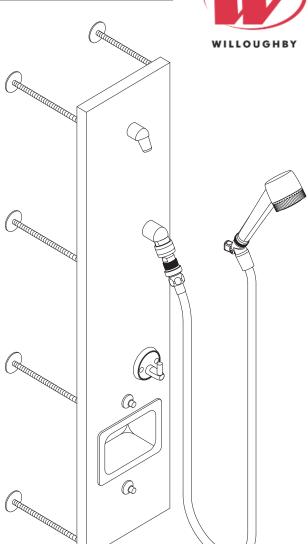
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WRS-BF Series Rear Mounted Recessed Handicap Shower Panel w/ Hand Held Flexshower Head



WITH A.D.A. 2010

Recommended Specifications

Rear Mounted, Recessed Handicap Shower Panel w/ Hand Held Flexshower Head shall be: Willoughby Model No. **WRS-BF** (Select from model number and options list on next page)

IN COMPLIANCE

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
- (FX) Hand held Flexshower head (w/ quick disconnect, vacuum breaker, and (1) hook)

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.

(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 pneumatic push buttons, standard 2.5 GPM flow rate, standard (NPS) and (FX) shower heads, in-line thermostatic mixing valve, and recessed mounted soap dish

Use the following Willoughby Model Number: WRS-BF-L-PML1-MA2-PPB-2.5GPM-NPS-FX-TMV-RD

1.) Base Model Number: Rear Mo w/ Hand

Rear Mounted, Recessed Handicap Shower Panel

w/ Hand Held Flexshower Head

2.) Panel Orientation	(Must	Specify):
-----------------------	-------	-----------

□ L□ L Left Hand Controls□ R Right Hand Controls

3.) Valve Selection:

☐ NV No Valve

PML1 Single Temp. Pneumatic MeteringPML2 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 <u>S5</u> for further information)

☐ MA2

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4.) Push Button Selection:

Pneumatic or Electronic Valves Only:

☐ PPB Pneumatic Push Buttons
☐ EPB Electronic Push Buttons*
☐ PZPB Piezo Push Buttons*

E \			Rate	
D. I	ГΙ	OW	Kale	

- 2.5 GPM (Standard)
- 2.0 GPM
- 1.5 GPM

6.) Electronic Controls* (Must Use Electronic Push Button):

■ WUSC-2200
■ WUSC-2400

Pneutronic

WMS II

7.) Shower Head Selection:

☐ NPS Non-adjustable Penal Shower Head (Standard)

☐ FX Hand Held Flexshower w/ Quick Disconnect and

Vacuum Breaker (Standard)

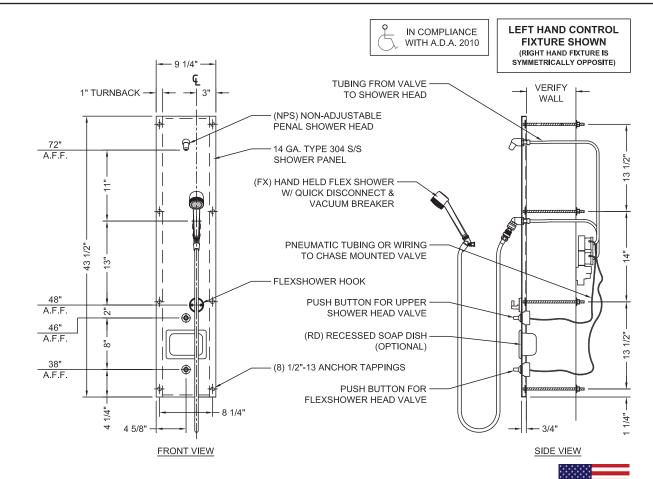
☐ APS Adjustable Penal Shower Head

8.) Options:

- ☐ 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
- ☐ SD Surface Mounted Soap Dish
- WS Wall Sleeve (Requires Accessible Chase)
- □ Other□ Other

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

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



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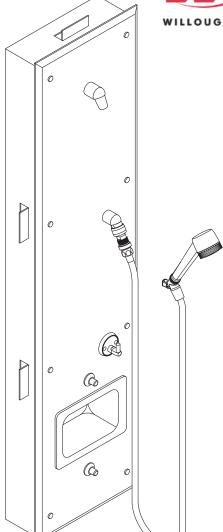
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Recommended Specifications

Front Mounted, Recessed Handicap Shower Panel w/ Hand Held Flexshower Head shall be: Willoughby Model No. **WRS-BF-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
- (FX) Hand held Flexshower head (w/ quick disconnect, vacuum breaker, and (1) hook)

Shower panel shall attach to mounting frame with vandal resistant stainless steel screws. 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 Front Mounted, Recessed Handicap Shower Panel w/ Hand Held Flexshower Head with left hand controls, single temp. pneumatic metering valves(manifolded), standard pneumatic push buttons, standard 2.5 GPM flow rate, standard (NPS) and (FX) shower heads, in-line thermostatic mixing valve, and recessed mounted soap dish

Use the following Willoughby Model Number: WRS-BF-FA-L-PML1-MA2-PPB-2.5GPM-NPS-FX-TMV-RD

1.) Base Model Number:

WRS-BF-FA Front Mounted, Recessed Handicap Shower Panel w/ Hand Held Flexshower Head

2.) Panel Orientation (Must Specify):

□ L□ L Left Hand Controls□ R Right Hand Controls

3.) 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)*

Valve Manifold Option:

Pneumatic or Electronic Valves Only:

(See the Manifold Option Page at the end of Catalog Section <u>S5</u> for further information)

☐ MA2

4.) Push Button Selection:

Pneumatic or Electronic Valves Only:

☐ PPB Pneumatic Push Buttons
☐ EPB Electronic Push Buttons*
☐ PZPB Piezo Push Buttons*

5.) Flow Rates:

- ☐ 2.5 GPM (Standard)
- □ 2.0 GPM
- ☐ 1.5 GPM

6.) Electronic Controls* (Must Use Electronic Push Button):

☐ WUSC-2200 ☐ WUSC-2400 ☐ Pneutronic ☐ WMS II

7.) Shower Head Selection:

□ NPS□ Non-adjustable Penal Shower Head (Standard)□ FX□ Hand Held Flexshower w/ Quick Disconnect and

Vacuum Breaker (Standard)

☐ APS Adjustable Penal Shower Head

8.) Options:

☐ TMV In-line Thermostatic Mixing Valve

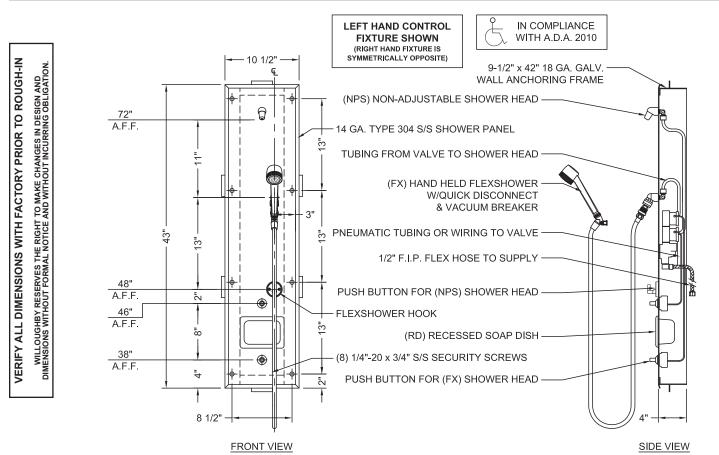
☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*
☐ TF24P Plug-in Transformer, 110VAC to 24VAC*

□ RD Recessed Mounted Soap Dish□ SD Surface Mounted Soap Dish□ Other

☐ Other _____

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

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



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WRS-BF-2HD Series Rear Mounted Recessed Handicap Shower Panel w/(2) Fixed Shower Heads



Recommended Specifications

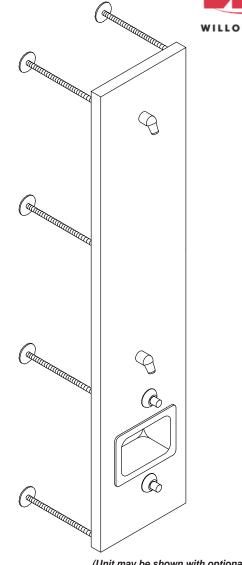
Rear Mounted, Recessed Handicap Shower Panel w/(2) Fixed Shower Heads shall be: Willoughby Model No. WRS-BF-2HD (Select from model number and options list on next page)

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)
- (2) (NPS) non-adjustable penal shower heads

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.



(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/(2) Fixed Shower Heads with single temp. pneumatic metering valves (manifolded), standard pneumatic push buttons, standard 2.5 GPM flow rate, standard (NPS) shower heads, in-line thermostatic mixing valve, and recessed mounted soap dish

Use the following Willoughby Model Number: WRS-BF-2HD-PML1-MA2-PPB-2.5GPM-NPS-TMV-RD

1.) Base Model Number:

☐ WRS-BF-2HD Rear Mounted, Recessed Handicap Shower Panel

w/(2) Fixed Shower Heads

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)*

Valve Manifold Option:

Pneumatic or Electronic Valves Only:

(See the Manifold Option Page at the end of Catalog Section <u>S5</u> for further information)

☐ MA2

3.) Push Button Selection:

Pneumatic or Electronic Valves Only:

□ PPB Pneumatic Push Buttons□ EPB Electronic Push Buttons*□ PZPB Piezo Push Buttons*

4.) Flow Rates:

■ 2.5 GPM (Standard)

■ 2.0 GPM

■ 1.5 GPM

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j.)	Electronic	Controls*	(Must Use	Electronic	Push Button):

☐ WUSC-2200 ☐ WUSC-2400 ☐ Pneutronic ☐ WMS II

6.) Shower Head Selection:

■ NPS Non-adjustable Penal Shower Heads (Standard)

☐ APS Adjustable Penal Shower Heads

7.) Options:

☐ TMV In-line Thermostatic Mixing Valve

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

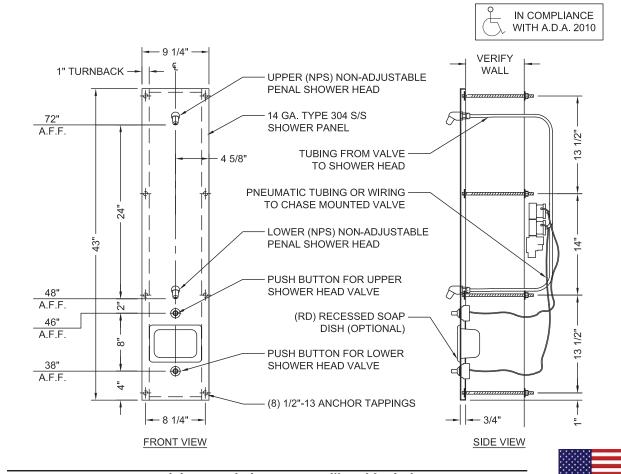
□ RD Recessed Mounted Soap Dish□ SD Surface Mounted Soap Dish

☐ WS Wall Sleeve☐ MT Metal Template

Other _____

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

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



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ASWRS-BF-2HD Series Ligature-resistant Rear Mounted Recessed Handicap Shower Panel w/(2) Fixed Shower Heads



Recommended Specifications

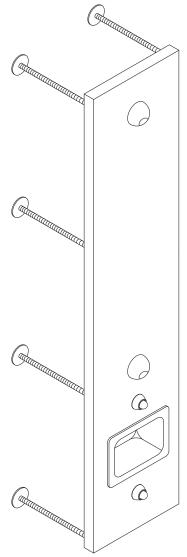
Ligature-resistant, Rear Mounted, Recessed Handicap Shower Panel w/(2) Fixed Shower Heads shall be: Willoughby Model No. **ASWRS-BF-2HD** (Select from model number and options list on next page)

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)
- (2) (CSH) ligature-resistant, vandal resistant shower heads

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.



(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, Recessed Handicap Shower Panel w/(2) Fixed Shower Heads with single temp. pneumatic metering valves (manifolded), (PBH) pneumatic push buttons, standard 2.5GPM flow rate, standard (CSH) shower heads, in-line thermostatic mixing valve, and recessed mounted soap dish

Use the following Willoughby Model Number:
ASWRS-BF-2HD-PML1-MA2-PBH-2.5GPM-CSH-TMV-RD



1.) Base Model Number: ■ ASWRS-BF-2HD Ligature-resistant, Rear Mounted, Recessed Handicap Shower Panel w/(2) Fixed Shower Heads 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)* Valve Manifold Option: Pneumatic or Electronic Valves Only: (See the Manifold Option Page at the end of Catalog Section <u>S5</u> for further information) ☐ MA2 3.) Push Button Selection: Pneumatic or Electronic Valves Only: Ligature-resistant Push Buttons ☐ EPBH Ligature-resistant Electronic Push Buttons*

Piezo Push Buttons*

□ PZPB

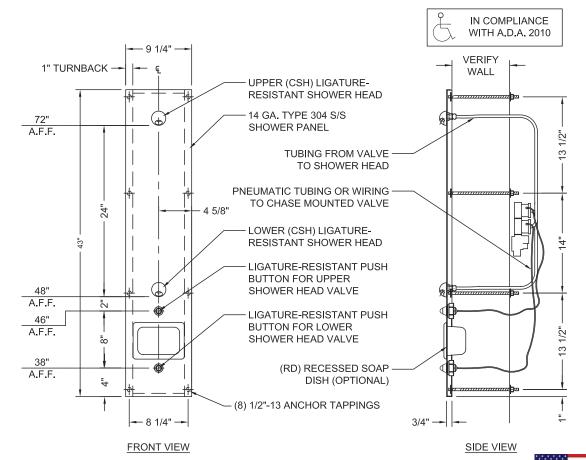
4.) Flow Rates:2.5 GPM (Standard)

□ 2.0 GPM□ 1.5 GPM

5.) Electro	nic Cont	rols* (Must Use Ele	ctronic Push Buttor	n):
■ WUSC-	2200	■ WUSC-2400	Pneutronic	■ WMS I
6.) Shower	Head S	election:		
□ CSH	Ligature	e-resistant Shower H	eads (Standard)	
7.) Options	3:			
■ TMV	In-line 7	Thermostatic Mixing \	Valve	
☐ TF24H	Hard-w	ired Transformer, 110	OVAC to 24VAC*	
☐ TF24P	Plug-in	Transformer, 110VA	C to 24VAC*	
RD RD	Recess	ed Mounted Soap Di	ish	
■ WS	Wall Sle	eeve		
■ MT	Metal T	emplate		
Other			_	
Other			_	
*(Reg. 11	0V powe	r through ground fau	It interrupter (GFCI) i	receptacle)

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

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WRS-BF-FA-2HD Series Front Mounted Recessed Handicap Shower Panel w/(2) Fixed Shower Heads



Recommended Specifications

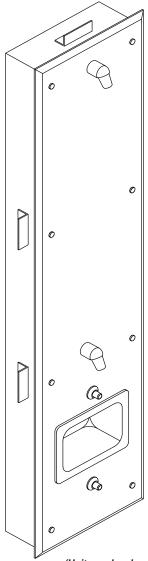
Front Mounted, Recessed Handicap Shower Panel w/(2) Fixed Shower Heads shall be: Willoughby Model No. **WRS-BF-FA-2HD** (Select from model number and options list on next page)

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)
- (2) (NPS) non-adjustable penal shower heads

Shower panel shall attach to mounting frame with security screws. 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 Front Mounted, Recessed Handicap Shower Panel w/(2) Fixed Shower Heads with single temp. pneumatic metering valves (manifolded), standard pneumatic push buttons, standard 2.5 GPM flow rate, standard (NPS) shower heads, in-line thermostatic mixing valve, and recessed mounted soap dish

Use the following Willoughby Model Number: WRS-BF-FA-2HD-PML1-MA2-PPB-2.5GPM-NPS-TMV-RD

1.) Base Model Number:

☐ WRS-BF-FA-2HD Front Mounted, Recessed Handicap Shower Panel w/(2) Fixed Shower Heads

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)*

Valve Manifold Option:

Pneumatic or Electronic Valves Only:

(See the Manifold Option Page at the end of Catalog Section <u>S5</u> for further information)

■ MA2

3.) Push Button Selection:

Pneumatic or Electronic Valves Only:

□ PPB Pneumatic Push Buttons□ EPB Electronic Push Buttons*□ PZPB Piezo Push Buttons*

4.) Flow Rates:

- 2.5 GPM (Standard)
- 2.0 GPM
- 1.5 GPM

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

5	Electronic	Controls*	(Must	Use	Flectronic	Push	Button'	١.
٠.,	Liectionic	Controls	(IVIUSE	USE	Liectionic	rusii	Dutton	,.

☐ WUSC-2200 ☐ WUSC-2400 ☐ Pneutronic ☐ WMS II

6.) Shower Head Selection:

■ NPS Non-adjustable Penal Shower Heads (Standard)

☐ APS Adjustable Penal Shower Heads

7.) Options:

☐ TMV In-line Thermostatic Mixing Valve

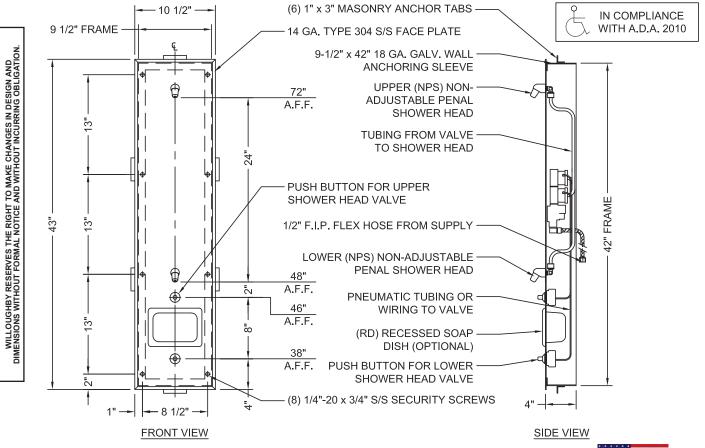
□ TF24H Hard-wired Transformer, 110VAC to 24VAC*□ TF24P Plug-in Transformer, 110VAC to 24VAC*

RD Recessed Mounted Soap Dish
Surface Mounted Soap Dish

☐ Other ☐ Other

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

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



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ASWRS-BF-FA-2HD Series Ligature-resistant Front Mounted Recessed Handicap Shower Panel w/(2) Fixed Shower Heads



Recommended Specifications

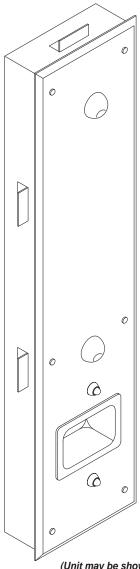
Ligature-resistant, Front Mounted, Recessed Handicap Shower Panel w/(2) Fixed Shower Heads shall be: Willoughby Model No. **ASWRS-BF-FA-2HD** (Select from model number and options list on next page)

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)
- (2) (CSH) ligature-resistant, vandal resistant shower heads

Shower panel shall attach to mounting frame with security screws. Unit requires no chase area for installation and maintenance.





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

Example: To specify a Ligature-resistant, Front Mounted, Recessed Handicap Shower Panel w/(2) Fixed Shower Heads with single temp. pneumatic metering valves (manifolded), (PBH) pneumatic push buttons, standard 2.5 GPM flow rate, standard (CSH) shower heads, in-line thermostatic mixing valve, and recessed mounted soap dish

Use the following Willoughby Model Number:
ASWRS-BF-FA-2HD-PML1-MA2-PBH-2.5GPM-CSH-TMV-RD

1.) Base Model Number: Ligature-resistant, Front Mounted, ☐ ASWRS-BF-FA-2HD Recessed Handicap Shower Panel w/(2) Fixed Shower Heads 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)* Valve Manifold Option: Pneumatic or Electronic Valves Only: (See the Manifold Option Page at the end of Catalog Section <u>S5</u> for further information) ☐ MA2 3.) Push Button Selection:

Pneumatic or Electronic Valves Only:

Piezo Push Buttons*

□ PZPB

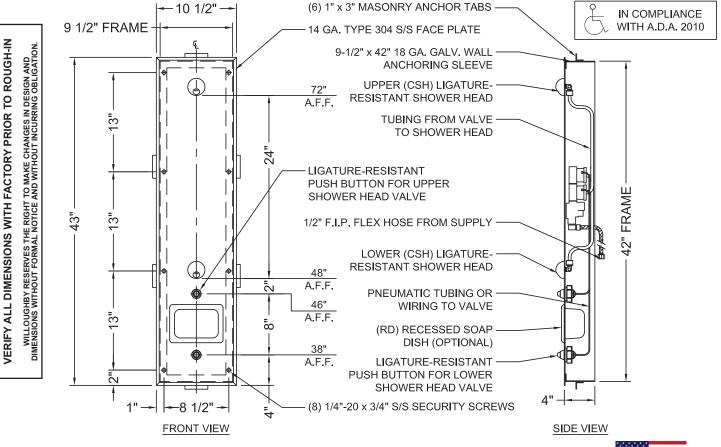
4.) Flow Rates:2.5 GPM (Standard)

□ 2.0 GPM□ 1.5 GPM

PBH Ligature-resistant Push ButtonsEPBH Ligature-resistant Electronic Push Buttons*

5.) Electro		ols* (Must ∩ WUS		ronic Push Buttor Pneutronic	n): □IWMSⅡ
6.) Shower CSH			hower Hea	nd (Standard)	
7.) Options	s:				
■ TMV	In-line T	hermostation	Mixing Va	lve	
☐ TF24H	Hard-wi	red Transfo	rmer, 110V	AC to 24VAC*	
☐ TF24P	Plug-in	Transforme	r, 110VAC 1	o 24VAC*	
□ RD	Recesse	ed Mounted	Soap Dish	ı	
Other					
Other					
*(Req. 11	0V power	through gr	ound fault i	nterrupter (GFCI)	receptacle)

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

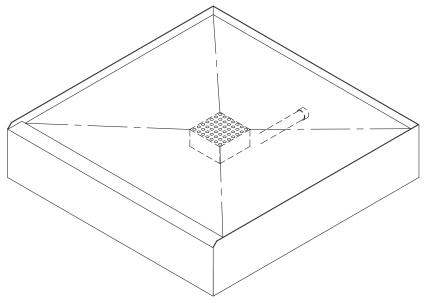


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SB-Series Stainless Steel Shower Base



(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.



1.) Base Model Number:

□ SB-3030
 □ SB-3232
 □ SB-3636
 □ SB-3636
 30"x30" Stainless Steel Shower Base
 □ Stainless Steel Shower Base
 □ SB-3636
 □ 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□ LCS□ RCS□ RCS□ Right Chase

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 SideA3 Polished Front & Left Side

☐ A4 Polished Front only

For (LCS) Left Chase:

☐ B1 Polished Front, Back Side, & Right Side

B2 Polished Front & Right SideB3 Polished Front only

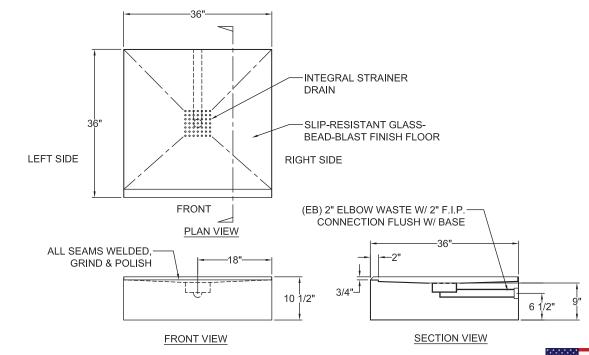
For (RCS) Right Chase:

☐ C1 Polished Front, Back Side, & Left Side

C2 Polished Front & Left SideC3 Polished Front only

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.

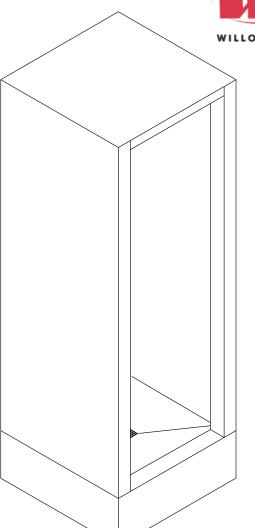


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Cabinet Shower





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.

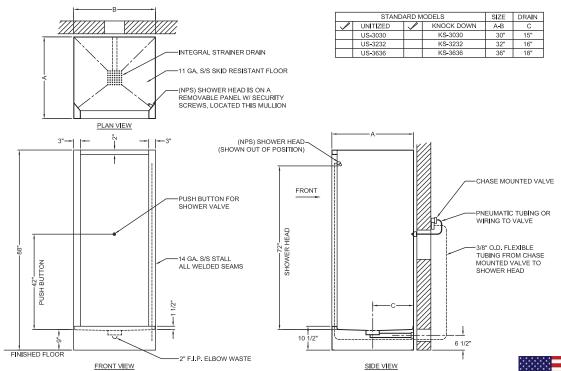
Example: To specify a unitized 36" x 36" Cabinet Shower with left hand shower head, back chase/valving, polished front, single temp. pneumatic metering valve, standard pneumatic push button, 2.5 GPM flow rate, standard non-adjustable penal shower head, standard elbow waste drain and recessed mounted soap dish

Use the following Willoughby Model Number: US-3636-L-BCS-A4-PML1-PPB-2.5GPM-NPS-EBD-RD

To specify Knockdown Cabinet Shower: Select the "KS" model number from the list on the Model Number and Options page.

1.) Base	Model Number:	5.) Valve S	election:	9.) Showe	r Head Selection:
<u>Uniti</u>	zed Cabinet Showers:	☐ NV	No Valve	☐ NPS	Non-adjustable Penal Shower Head (Standard
☐ US-3		PML1	Single Temp. Pneumatic Metering	APS	Adjustable Penal Shower Head
US-3	232 32"L x 32"W Cabinet Shower	PML2	Dual Temp. Pneumatic Metering	CSH	Ligature-resistant Shower Head
US-3		□ E1L1	Single Temp. Electronic (Pick Control)*	_	ŭ
_	kdown Cabinet Showers:	☐ E1L2	Dual Temp. Electronic (Pick Control)*	10.) Drain	Selection:
☐ KS-3		_	Pressure-Balancing Mixing Valve	☐ EBD	Elbow waste for Cabinet Shower (2" FIP)
☐ KS-3		_	Temp/Pressure-Balancing Mixing Valve		(Standard)
☐ KS-3		_	Ligature-resistant Temp/Pressure-	☐ PTD	Integral 'P'-Trap Cabinet Shower Drain (2" FIF
	OO EX OO IV GUDING! GHOWS!		Balancing Mixing Valve	☐ NHD	No-hub Cabinet Shower Drain (2")
2) Show	er Head Orientation:	Valve Man	ifold Option:	☐ ICD	Inside Caulk Cabinet Shower Drain (2")
,	Left Hand		or Electronic Valves Only:		iliside Cadik Cabillet Silowel Diaili (2)
□ L □ R			•	44 \ Ontio	
□ K	Right Hand	•	e Manifold Option Page at the end of	11.) Option	
			g Section <u>S5</u> for further information)	☐ VG	Ventilation Grille (Specify Free Area and
,	e Wall/Valve Orientation:	☐ MA2			Location; Standard Grille Dimensions:
BCS	Back Chase				8-3/4" x 8-3/4" with 15-3/4 in ² open area)
LCS	Left Chase		utton Selection:	☐ CP	Closure Panels
RCS	Right Chase		or Electronic Valves Only:		(Specify Dimensions and Locations)
		PPB	Pneumatic Push Buttons	STC	Sloping Top Closure
4.) Cabin	et Side Exterior Finish Schedule:	PBH	Ligature-resistant Push Buttons	■ MD	Modesty Door (Not ADA-Compliant)
	(Based on Chase Wall Orientation;	EPB	Electronic Push Buttons*		☐ L Hinged Left
	see the Options Pages at the end of	EPBH	Ligature-resistant Electronic Push Buttons*		R Hinged Right
	Catalog Section for diagram)	PZPB	Piezo Push Buttons*	□ CR	Curtain Rod
For (BCS	S) Back Chase:			□ DR	Drying Receptor
☐ A1	Polished Front, Left Side, & Right Side	7.) Flow Ra	ates:	☐ TH1	Release Towel Hook
☐ A2	Polished Front & Right Side	☐ 2.5 GPN	// (Standard)	☐ RD	Recessed Mounted Soap Dish
A3	Polished Front & Left Side	☐ 2.0 GPN	,	SD	Surface Mounted Soap Dish
☐ A4	Polished Front only	☐ 1.5 GPN		ZC	'Z'-Clip Floor Mounting
	S) Left Chase:			☐ TMV	In-line Thermostatic Mixing Valve
□ B1	Polished Front, Back Side, & Right Side	8) Flectro	nic Controls*	☐ TF24H	<u> </u>
☐ B2	Polished Front & Right Side		se Electronic Push Button):	☐ TF24P	· · · · · · · · · · · · · · · · · · ·
□ B3	Polished Front only	□ WUSC-		☐ Other	3
_	,	☐ Pneutro	_	Other	
	S) Right Chase:	_ Prieutro	nic 🔲 WMS II	_	10)/
☐ C1	Polished Front, Back Side, & Left Side			"(Req. 1	10V power through ground fault interrupter
☐ C2	Polished Front & Left Side				(GFCI) receptacle)
☐ C3	Polished Front only				
	ved For Manufacturing By:		Date:	C	ompany:
Wall T	hickness:	Wall [¬]	Гуре:		
		-1			
			,	STANDARD	
	7	<u> </u>		INITIZED V	KNOCK DOWN A-B C KS-3030 30" 15"
Z Z		7		JS-3030 JS-3232	KS-3030 30" 15" KS-3232 32" 16"
-		/ _		JS-3636	KS-3636 36" 18"

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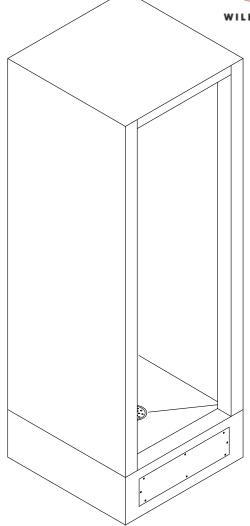


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Front Access Cabinet Shower



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.

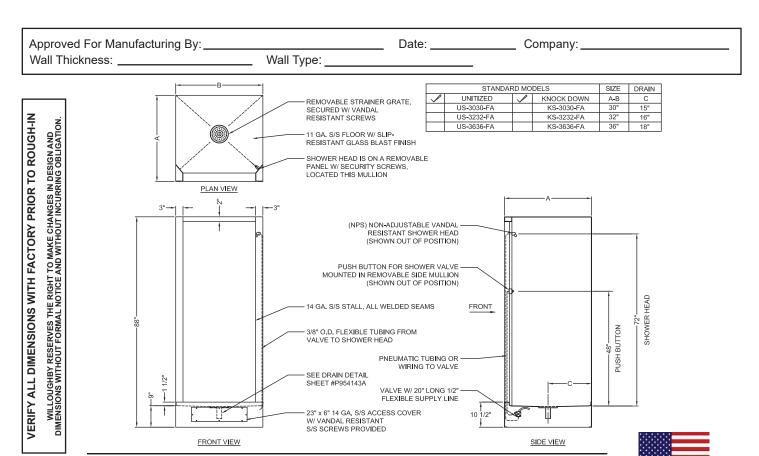
To specify fixture and accessories, use the Model Number and Options page.

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 pneumatic push button, 2.5 GPM flow rate, standard non-adjustable penal shower head, standard no-hub drain and surface mounted soap dish.

Use the following Willoughby Model Number: US-3636-FA-L-A4-PML1-PPB-2.5GPM-NPS-NHD-SD

To specify Knockdown Cabinet Shower: Select the "KS" model number from the list on the Model Number and Options page.

1.)	Base Model Num	ber:	4.) Valve S	election:	8.) Shower	r Head Selection:
	Unitized Front A	ccess Cabinet Showers:	■ NV	No Valve	■ NPS	Non-adjustable Penal Shower Head
	US-3030-FA	30"L x 30"W Cabinet Shower	PML1	Single Temp. Pneumatic Metering		(Standard)
	US-3232-FA	32"L x 32"W Cabinet Shower	PML2	Dual Temp. Pneumatic Metering	APS	Adjustable Penal Shower Head
	US-3636-FA	36"L x 36"W Cabinet Shower	■ E1L1	Single Temp. Electronic (Pick Control)*	□ CSH	Ligature-resistant Shower Head
	Knockdown From	nt Access Cabinet Showers:	■ E1L2	Dual Temp. Electronic (Pick Control)*		
	KS-3030-FA	30"L x 30"W Cabinet Shower	□ PBV	Pressure-Balancing Mixing Valve	9.) Drain S	Selection:
	KS-3232-FA	32"L x 32"W Cabinet Shower	■ TPV	Temp/Pressure-Balancing Mixing Valve	■ NHD	No-hub Cabinet Shower Drain (2") (Standard)
	KS-3636-FA	36"L x 36"W Cabinet Shower	☐ TPLR	Ligature-resistant Temp/Pressure- Balancing Mixing Valve	☐ ICD	Inside Caulk Cabinet Shower Drain (2")
2.)	Shower Head/Pus	sh Button Orientation:	Valve Man	ifold Option:	10.) Option	ns:
	L Left Hand	d	Pneumatic	or Electronic Valves Only:	☐ VG	Ventilation Grille (Specify Free Area and
	R Right Ha	nd	(See th	e Manifold Option Page at the end of		Location; Standard Grille Dimensions:
			Catalo	g Section <u>S5</u> for further information)		8-3/4" x 8-3/4" with 15-3/4 in ² open area)
3.)	Cabinet Side Ext	erior Finish Schedule:	☐ MA2		☐ CP	Closure Panels
	(Based or	n Chase Wall Orientation;				(Specify Dimensions and Locations)
	see the O	ptions Pages at the end of	5.) Push B	utton Selection:	☐ STC	Sloping Top Closure
	Catalog S	Section for diagram)	Pneumati	c or Electronic Valves Only:	■ MD	Modesty Door (Not ADA-Compliant)
For	(BCS) Back Wal	<u>l:</u>	□ PPB	Pneumatic Push Buttons		☐ L Hinged Left
	A1 Polished F	Front, Left Side, & Right Side	□ PBH	Ligature-resistant Push Buttons		R Hinged Right
	A2 Polished F	Front & Right Side	■ EPB	Electronic Push Buttons*	□ CR	Curtain Rod
	A3 Polished F	Front & Left Side	EPBH	Ligature-resistant Electronic Push Buttons	* 🔲 TH1	Release Towel Hook
	A4 Polished F	Front only	PZPB	Piezo Push Buttons*	RD RD	Recessed Mounted Soap Dish
For	(LCS) Left Wall:				☐ SD	Surface Mounted Soap Dish
	B1 Polished F	Front, Back Side, & Right Side	6.) Flow Ra	ates:	□ ZC	'Z'-Clip Floor Mounting
	B2 Polished F	Front & Right Side	☐ 2.5 GPI	M (Standard)	■ TMV	In-line Thermostatic Mixing Valve
	B3 Polished F	Front only	2.0 GPI	M	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC*
For	(RCS) Right Wal	<u>II:</u>	■ 1.5 GPI	M	☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*
	C1 Polished F	Front, Back Side, & Left Side			Other	
	C2 Polished F	Front & Left Side	7.) Electro	nic Controls*	Other	
	C3 Polished F	Front only	(Must U	se Electronic Push Button):	*(Req. 11	0V power through ground fault interrupter
		•	wusc-	2200 WUSC-2400		(GFCI) receptacle)
			Pneutro	nic WMS II		

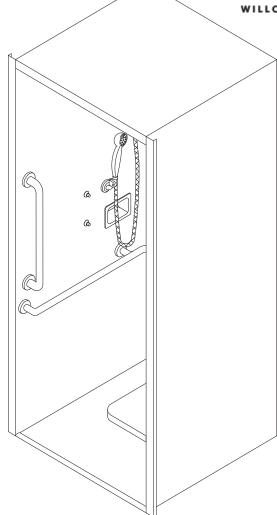


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Handicap Cabinet Shower





Please provide shower finish schedule upon ordering. (Unit may be shown with optional features)

IN COMPLIANCE WITH A.D.A. 2010

Recommended Specifications

Handicap 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

Underside of shower floor shall be sound deadened with fire resistant material.

Unit requires chase area for installation and maintenance.

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 pneumatic push buttons, 2.5 GPM flow rate, non-adjustable penal shower head and hand held Flexshower, standard inside caulk drain, and recessed mounted soap dish.

Use the following Willoughby Model Number: US-3636-HC-L-B3-PML1-MA2-PPB-2.5GPM-NPS-FX-ICD-RD

Unit requires 2" recess in floor.

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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1.) Base Mo	odel Number:	5.) Diverter Valve:		10.) Drain S	Selection:
	d Handicap Cabinet Shower:	☐ DV	Diverter Valve	CD	Inside Caulk Cabinet Shower Drain (2")
☐ US-363		_	Ligature-resistant Diverter Valve		(Standard)
	lown Handicap Cabinet Shower:	☐ PML1-MA2	Two Single Temp. Pneumatic		
☐ KS-363	6-HC 36"L x 36"W Cabinet Shower		Metering Valves in Lieu of	10.) Option	
			Diverter Valve	☐ VG	Ventilation Grille (Specify Free Area and
,	Vall/ Shower Head/Valve Orientation:				Location; Standard Grille Dimensions:
□ L	Left Hand (LCS- Left Chase)	6.) Push Button Sel			8-3/4" x 8-3/4" with 15-3/4 in ² open area)
☐ R	Right Hand (RCS- Right Chase)	Pneumatic or Elect	-	☐ CP	Closure Panels
		_	tic Push Buttons		(Specify Dimensions and Locations)
•	Side Exterior Finish Schedule:	_ •	-resistant Push Buttons	☐ STC	Sloping Top Closure
	Based on Chase Wall Orientation;	_	ic Push Buttons*	☐ MD	Modesty Door (Not ADA-Compliant)
	see the Options Pages at the end of	_ •	-resistant Electronic Push Buttons* ush Buttons*		L Hinged Left
For (LCS) L	Catalog Section for diagram)	PZPB PIEZOPI	ISH BUILONS	☐ CR	R Hinged Right Curtain Rod
	Polished Front & Right Side	7.) Flow Rates:		TH1	Release Towel Hook
_	Polished Front only	☐ 2.5 GPM (Standa	rd)	GBC	Grab Bar Closure Plate
	Right Chase:	☐ 2.0 GPM	14)	☐ RD	Recessed Mounted Soap Dish
	Polished Front & Left Side	☐ 1.5 GPM		SD	Surface Mounted Soap Dish
	Polished Front only	=		☐ TA	Threshold Anchors
	-	8.) Electronic Contr	ols*	☐ TMV	In-line Thermostatic Mixing Valve
4.) Valve Se	election:	(Must Use Electr	onic Push Button):	TF24H	Hard-wired Transformer, 110VAC to 24VAC*
■ NV	No Valve	☐ WUSC-2200	☐ WUSC-2400	☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*
☐ PML1	Single Temp. Pneumatic Metering	☐ Pneutronic ☐	WMS II	LFSS	Less Fold-up Stainless Steel Shower Seat
☐ PML2	Dual Temp. Pneumatic Metering				(NOTE: FSS Fold-up Shower Seat is required
E1L1	Single Temp. Electronic (Pick Control)*	9.) Shower Head Se		D	for ADA Compliance)
E1L2	Dual Temp. Electronic (Pick Control)*	_ ,	ustable Penal Shower Head	☐ LGB331	,
☐ PBV	Pressure-Balancing Mixing Valve	_	eld Flexshower w/ Quick		mounted L-Shaped Grab Bar
☐ TPV ☐ TPLR	Temp/Pressure-Balancing Mixing Valve Ligature-resistant Temp/Pressure-		ect and Vacuum Breaker	☐ LGB24V	Less 24" Vertically-mounted Grab Bar
U IPLK	Balancing Mixing Valve	_ ,	le Penal Shower Head -resistant Shower Head	Other _	
Valve Mani	fold Option:	_	Shower Heads, Replaces (FX)		OV power through ground fault interrupter
	or Electronic Valves Only:	2.1.5 (2) 1 1XeC	. S. Stroi Floado, Repiaces (FX)		(GFCI) receptacle)
	e Manifold Option Page at the end of			`	,,
•					
Catalog	Section <u>S5</u> for further information)				
☐ MA2	Section <u>S5</u> for further information)				
-	Section <u>S5</u> for further information)				
☐ MA2					
Approve	ed For Manufacturing By:			Co	mpany:
Approve			Date:	Co	mpany:
Approve	ed For Manufacturing By:	Wall Type:		Co	mpany:
Approve	ed For Manufacturing By:			NOTE:	
Approve Wall Thi	ed For Manufacturing By:	Wall Type:		DE NOTE:	NIMUM CHASE AREA REQUIRED
Approve Wall Thi	ed For Manufacturing By:ckness:	Wall Type:	P IN COMPLIANC	DE NOTE: * 5" MII 10	NIMUM CHASE AREA REQUIRED DN VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR
Approve Wall Thi	ed For Manufacturing By:	Wall Type:	P IN COMPLIANC	DE NOTE: * 5" MII 10	NIMUM CHASE AREA REQUIRED DN VALVE / SOAP DISH SIDE
Approve Wall Thi	ed For Manufacturing By:	Wall Type:	IN COMPLIANC WITH A.D.A. 20	NOTE: * 5" MI * 2" RE	NIMUM CHASE AREA REQUIRED DN VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By:ckness:	Wall Type:	IN COMPLIANC WITH A.D.A. 20 3B3318) 33" x 18" HORIZONTAL 2-WALL GRA	NOTE: * 5" MI * 2" RE	NIMUM CHASE AREA REQUIRED DN VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By:	Wall Type:	IN COMPLIANC WITH A.D.A. 20 SB3318) 33" x 18" HORIZONTAL 2-WALL GRA	NOTE: * 5" MI * 2" RE	NIMUM CHASE AREA REQUIRED DN VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By:	Wall Type:	P IN COMPLIANC WITH A.D.A. 20 BB3318) 33" × 18" HORIZONTAL 2-WALL GRA EMOVABLE STRAINER SECURED W VANDAL RESISTANT SCREWS	NOTE: * 5" MI * 2" RE	NIMUM CHASE AREA REQUIRED DN VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By:	Wall Type:	O IN COMPLIANC WITH A.D.A. 20 SB3318) 33" x 18" HORIZONTAL 2-WALL GRASSING SECURED W/ VANDAL RESISTANT SCREWS 1 GA. S/S SLIP-RESISTANT FLOOR	DE 110	NIMUM CHASE AREA REQUIRED DN VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By:	Wall Type:	P IN COMPLIANC WITH A.D.A. 20 BB3318) 33" × 18" HORIZONTAL 2-WALL GRA EMOVABLE STRAINER SECURED W VANDAL RESISTANT SCREWS 1 GA. S/S SLIP-RESISTANT FLOOR (NPS) NON-ADJUSTABLE	NOTE: 5" Mi 2" RE 11	NIMUM CHASE AREA REQUIRED ON VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR NSTALLATION
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By:	Wall Type:	DIN COMPLIANC WITH A.D.A. 20 WITH A.	NOTE:	NIMUM CHASE AREA REQUIRED ON VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR NSTALLATION
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By:	Wall Type:	DIN COMPLIANC WITH A.D.A. 20 WITH A.	NOTE:	NIMUM CHASE AREA REQUIRED ON VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR NSTALLATION
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By:	Wall Type:	IN COMPLIANC WITH A.D.A. 20 SB3318) 33" × 18" HORIZONTAL 2-WALL GRA EMOVABLE STRAINER SECURED W VANDAL RESISTANT SCREWS 1 GA. S/S SLIP-RESISTANT FLOOR (NPS) NON-ADJUSTABLE PENAL SHOWER HEAD	NOTE:	NIMUM CHASE AREA REQUIRED ON VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR NSTALLATION
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By:	Wall Type:	IN COMPLIANC WITH A.D.A. 20 SB3318) 33" x 18" HORIZONTAL 2-WALL GRA EMOVABLE STRAINER SECURED W VANDAL RESISTANT SCREWS 1 GA. S/S SLIP-RESISTANT FLOOR (NPS) NON-ADJUSTABLE PENAL SHOWER HEAD FLEXSHOWER HOOK 4 GA. S/S STALL, ALL WELDED SEAMS W/A TO KNOCKDOWN FIXTURES)	NOTE: * 5" MI * 2" RE I	NIMUM CHASE AREA REQUIRED ON VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR NSTALLATION
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By:	Wall Type:	P IN COMPLIANC WITH A.D.A. 20 SB3318) 33" × 18" HORIZONTAL 2-WALL GRA EMOVABLE STRAINER SECURED W/VANDAL RESISTANT SCREWS 1 GA. S/S SLIP-RESISTANT FLOOR (NPS) NON-ADJUSTABLE PENAL SHOWER HEAD FLEXSHOWER HOOK 4 GA. S/S STALL, ALL WELDED SEAMS WA TO KNOCKDOWN FIXTURES) PUSH BUTTON FOR (NPS)	DE NOTE: 5° MI (10 2° RE 11 11 11 11 11 11 11 11 11 11 11 11 11	NIMUM CHASE AREA REQUIRED ON VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR NSTALLATION
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By:	Wall Type:	P IN COMPLIANC WITH A.D.A. 20 DB3318) 33" x 18" HORIZONTAL 2-WALL GRA EMOVABLE STRAINER SECURED W/VANDAL RESISTANT SCREWS 1 GA. S/S SLIP-RESISTANT FLOOR (NPS) NON-ADJUSTABLE PENAL SHOWER HEAD FLEXSHOWER HOOK 4 GA. S/S STALL, ALL WELDED SEAMS WA TO KNOCKDOWN FIXTURES) PUSH BUTTON FOR (NPS SHOWER HEAD VALVE (48" A.F.F.	DE NOTE: 5° MI (10 2° RE 11 11 11 11 11 11 11 11 11 11 11 11 11	NIMUM CHASE AREA REQUIRED ON VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR INSTALLATION 4"
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By:	Wall Type:	IN COMPLIANC WITH A.D.A. 20 SB3318) 33" × 18" HORIZONTAL 2-WALL GRA EMOVABLE STRAINER SECURED W VANDAL RESISTANT SCREWS 1 GA. S/S SLIP-RESISTANT FLOOR (NPS) NON-ADJUSTABLE PENAL SHOWER HEAD FLEXSHOWER HOOK 4 GA. S/S STALL, ALL WELDED SEAMS N/A TO KNOCKDOWN FIXTURES) PUSH BUTTON FOR (NPS SHOWER HEAD VALVE (48" A.F.F. (FX) HAND HELD FLEXSHOWEF W OUICK DISCONNECT	NOTE:	NIMUM CHASE AREA REQUIRED DI VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR NSTALLATION
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By:	Wall Type:	IN COMPLIANC WITH A.D.A. 20 SB3318) 33" × 18" HORIZONTAL 2-WALL GRA EMOVABLE STRAINER SECURED W VANDAL RESISTANT SCREWS 1 GA. S/S SLIP-RESISTANT FLOOR (NPS) NON-ADJUSTABLE PENAL SHOWER HEAD FLEXSHOWER HOOK 4 GA. S/S STALL, ALL WELDED SEAMS WA TO KNOCKDOWN FIXTURES) PUSH BUTTON FOR (NPS) SHOWER HEAD VALVE (48" A.F.F. (FX) HAND HELD FLEXSHOWEF W OUICK DISCONNECT & VACUUM BREAKER	NOTE:	NIMUM CHASE AREA REQUIRED DI VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR NSTALLATION
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By:	Wall Type:	IN COMPLIANC WITH A.D.A. 20 SB3318) 33" × 18" HORIZONTAL 2-WALL GRA EMOVABLE STRAINER SECURED W VANDAL RESISTANT SCREWS 1 GA. S/S SLIP-RESISTANT FLOOR (NPS) NON-ADJUSTABLE PENAL SHOWER HEAD FLEXSHOWER HOOK 4 GA. S/S STALL, ALL WELDED SEAMS N/A TO KNOCKDOWN FIXTURES) PUSH BUTTON FOR (NPS SHOWER HEAD VALVE (48" A.F.F. (FX) HAND HELD FLEXSHOWEF W OUICK DISCONNECT	NOTE:	NIMUM CHASE AREA REQUIRED DI VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR NSTALLATION
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By:	Wall Type:	P IN COMPLIANC WITH A.D.A. 20 3B3318) 33" x 18" HORIZONTAL 2-WALL GRA EMOVABLE STRAINER SECURED W/ VANDAL RESISTANT SCREWS 1 GA. S/S SLIP-RESISTANT FLOOR (NPS) NON-ADJUSTABLE PENAL SHOWER HEAD FLEXSHOWER HOOK 4 GA. S/S STALL, ALL WELDED SEAMS WA TO KNOCKDOWN FIXTURES) PUSH BUTTON FOR (NPS SHOWER HEAD VALVE (48" A.F.F. (FX) HAND HELD FLEXSHOWER W/ QUICK DISCONNECT & VACUUM BREAKER 3B24V) 24" GRAB BAR FRONT	NOTE:	NIMUM CHASE AREA REQUIRED ON VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR INSTALLATION
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By:	Wall Type:	P IN COMPLIANC WITH A.D.A. 20 BB3318) 33" x 18" HORIZONTAL 2-WALL GRA EMOVABLE STRAINER SECURED W VANDAL RESISTANT SCREWS 1 GA. S/S SLIP-RESISTANT FLOOR (NPS) NON-ADJUSTABLE PENAL SHOWER HEAD FLEXSHOWER HOOK 4 GA. S/S STALL, ALL WELDED SEAMS WA TO KNOCKDOWN FIXTURES) PUSH BUTTON FOR (NPS SHOWER HEAD VALVE (48" A.F.F. (FX) HAND HELD FLEXSHOWER W QUICK DISCONNECT & VACUUM BREAKER BB24V) 24" GRAB BAR OR VERTICAL MOUNTING FRONT FSS) FOLD-UP S/S SHOWER SEAT	DE NOTE: 5° Mil 2° RE	NIMUM CHASE AREA REQUIRED ON VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR INSTALLATION
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By:	Wall Type:	P IN COMPLIANC WITH A.D.A. 20 GB3318) 33" x 18" HORIZONTAL 2-WALL GRA EMOVABLE STRAINER SECURED W VANDAL RESISTANT SCREWS 1 GA. S/S SLIP-RESISTANT FLOOR (NPS) NON-ADJUSTABLE PENAL SHOWER HEAD FLEXSHOWER HOOK 4 GA. S/S STALL, ALL WELDED SEAMS WA TO KNOCKDOWN FIXTURES) PUSH BUTTON FOR (NPS SHOWER HEAD VALVE (48" A.F.F. (FX) HAND HELD FLEXSHOWER W QUICK DISCONNECT & VACUUM BREAKER GB24V) 24" GRAB BAR OR VERTICAL MOUNTING	NOTE:	NIMUM CHASE AREA REQUIRED ON VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR INSTALLATION
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By:	Wall Type:	IN COMPLIANC WITH A.D.A. 20 SB3318) 33" x 18" HORIZONTAL 2-WALL GRA EMOVABLE STRAINER SECURED W VANDAL RESISTANT SCREWS 1 GA. S/S SLIP-RESISTANT FLOOR (NPS) NON-ADJUSTABLE PENAL SHOWER HEAD FENAL SHOWER HOOK 4 GA. S/S STALL, ALL WELDED SEAMS WA TO KNOCKDOWN FIXTURES) PUSH BUTTON FOR (NPS SHOWER HEAD VALVE (48" A.F.F. (FX) HAND HELD FLEXSHOWER W/ QUICK DISCONNECT & VACUUM BREAKER GB24V) 24" GRAB BAR OR VERTICAL MOUNTING FSS) FOLD-UP S/S SHOWER SEAT PUSH BUTTON FOR FLEXSHOWER	NOTE: 5" MI 2" RE 110 2" R	NIMUM CHASE AREA REQUIRED DI VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR NSTALLATION
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By:	Wall Type:	IN COMPLIANC WITH A.D.A. 20 BB3318) 33" x 18" HORIZONTAL 2-WALL GRA EMOVABLE STRAINER SECURED W VANDAL RESISTANT SCREWS 1 GA. S/S SLIP-RESISTANT FLOOR (NPS) NON-ADJUSTABLE PENAL SHOWER HADE FLEXSHOWER HOOK 4 GA. S/S STALL, ALL WELDED SEAMS WA TO KNOCKDOWN FIXTURES) PUSH BUTTON FOR (NPS SHOWER HEAD VALVE (48" A.F.F. (FX) HAND HELD FLEXSHOWER W/ QUICK DISCONNECT & VACUUM BREAKER GB24V) 24" GRAB BAR OR VERTICAL MOUNTING FSS) FOLD-UP S/S SHOWER SEAT PUSH BUTTON FOR FLEXSHOWER HEAD VALVE (43" A.F.F.	NOTE:	NIMUM CHASE AREA REQUIRED ON VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR INSTALLATION
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By:	Wall Type:	IN COMPLIANC WITH A.D.A. 20 BB3318) 33" x 18" HORIZONTAL 2-WALL GRA EMOVABLE STRAINER SECURED W VANDAL RESISTANT SCREWS 1 GA. S/S SLIP-RESISTANT FLOOR (NPS) NON-ADJUSTABLE PENAL SHOWER HEAD FLEXSHOWER HOOK 4 GA. S/S STALL, ALL WELDED SEAMS WA TO KNOCKDOWN FIXTURES) PUSH BUTTON FOR (NPS SHOWER HEAD VALVE (48" A.F.F. (FX) HAND HELD FLEXSHOWER W/ QUICK DISCONNECT & VACUUM BREAKER BB24V) 24" GRAB BAR OR VERTICAL MOUNTING FSS) FOLD-UP S/S SHOWER SEAT PUSH BUTTON FOR FLEXSHOWER HEAD VALVE (43" A.F.F. (RD) RECESSED SOAP DISK	NOTE:	NIMUM CHASE AREA REQUIRED ON VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR INSTALLATION
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By: ckness:	Wall Type:	IN COMPLIANC WITH A.D.A. 20 BB3318) 33" x 18" HORIZONTAL 2-WALL GRA EMOVABLE STRAINER SECURED W VANDAL RESISTANT SCREWS 1 GA. S/S SLIP-RESISTANT FLOOR (NPS) NON-ADJUSTABLE PENAL SHOWER HEAD FLEXSHOWER HOOK 4 GA. S/S STALL, ALL WELDED SEAMS WA TO KNOCKDOWN FIXTURES) PUSH BUTTON FOR (NPS SHOWER HEAD VALVE (48" A.F.F. (FX) HAND HELD FLEXSHOWER W/ QUICK DISCONNECT & VACUUM BREAKER BB24V) 24" GRAB BAR OR VERTICAL MOUNTING FSS) FOLD-UP S/S SHOWER SEAT PUSH BUTTON FOR FLEXSHOWER HEAD VALVE (43" A.F.F. (RD) RECESSED SOAP DISK	NOTE:	NIMUM CHASE AREA REQUIRED ON VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR INSTALLATION
Approve Wall Thi	ed For Manufacturing By: ckness:	Wall Type:	IN COMPLIANC WITH A.D.A. 20 BB3318) 33" x 18" HORIZONTAL 2-WALL GRA EMOVABLE STRAINER SECURED W VANDAL RESISTANT SCREWS 1 GA. S/S SLIP-RESISTANT FLOOR (NPS) NON-ADJUSTABLE PENAL SHOWER HEAD FLEXSHOWER HOOK 4 GA. S/S STALL, ALL WELDED SEAMS WA TO KNOCKDOWN FIXTURES) PUSH BUTTON FOR (NPS SHOWER HEAD VALVE (48" A.F.F. (FX) HAND HELD FLEXSHOWER W/ QUICK DISCONNECT & VACUUM BREAKER BB24V) 24" GRAB BAR OR VERTICAL MOUNTING FSS) FOLD-UP S/S SHOWER SEAT PUSH BUTTON FOR FLEXSHOWER HEAD VALVE (43" A.F.F. (RD) RECESSED SOAP DISH 1/2" HIGH THRESHOLE	NOTE: *5" MI *2" RE AB BAR	NIMUM CHASE AREA REQUIRED ON VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR INSTALLATION
ROUGH-IN SIGN AND OBLIGATION.	ed For Manufacturing By: ckness: VALVE-SIDE WALL WITH OPENINGS CHASE FINISHED FLOOR	Wall Type:	IN COMPLIANC WITH A.D.A. 20 BB3318) 33" x 18" HORIZONTAL 2-WALL GRA EMOVABLE STRAINER SECURED W VANDAL RESISTANT SCREWS 1 GA. S/S SLIP-RESISTANT FLOOR (NPS) NON-ADJUSTABLE PENAL SHOWER HEAD FLEXSHOWER HOOK 4 GA. S/S STALL, ALL WELDED SEAMS WA TO KNOCKDOWN FIXTURES) PUSH BUTTON FOR (NPS SHOWER HEAD VALVE (48" A.F.F. (FX) HAND HELD FLEXSHOWER W/ QUICK DISCONNECT & VACUUM BREAKER BB24V) 24" GRAB BAR OR VERTICAL MOUNTING FSS) FOLD-UP S/S SHOWER SEAT PUSH BUTTON FOR FLEXSHOWER HEAD VALVE (43" A.F.F. (RD) RECESSED SOAP DISH 1/2" HIGH THRESHOLE	NOTE:	NIMIM CHASE AREA REQUIRED ON VALVE / SOAP DISH SIDE CESS IN FLOOR REQUIRED FOR INSTALLATION

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WILLDHIGHEY

Front Access Handicap Cabinet Shower



Recommended Specifications

Front Access Handicap Cabinet Shower shall be: Willoughby Model No.___S- 3636-HC-FA (Select from model number and options list on next page)

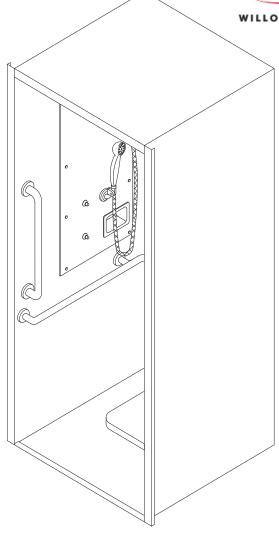
Shower cabinet shall be fabricated from 14 gauge, Type 304 stainless steel. Shower floor shall be fabricated from 11 gauge, Type 304 stainless steel. The construction shall be *all-welded* (unitized models only, not applicable to knockdown models), exposed stainless surfaces polished to a #4 satin finish, 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

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.



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 36" Front Access Handicap Cabinet Shower with left hand shower head/push button/valving, polished front, single temp, pneumatic metering valves, standard pneumatic push buttons, 2.5 GPM flow rate, non-adjustable penal shower head and hand held Flexshower, standard inside caulk drain, and recessed mounted soap dish

Use the following Willoughby Model Number: US-3636-HC-FA-L-B3-PML1-MA2-PPB-2.5GPM-NPS-FX-ICD-RD

Unit requires 2" recess in floor.

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.

Cabinet Shower: (See the Manifold Option Page at the end of US-3636-HC-FA 36"L x 36"W Cabinet Shower Catalog Section 55 for further information) (Standard)	r Drain (2")
Knockdown Handicap Front Access	e Δrea and
☐ KS-3636-HC-FA 36"L x 36"W Cabinet Shower 5.) Diverter Valve: Location; Standard Grille Dir	nensions:
DV Diverter Valve 8-3/4" x 8-3/4" with 15-3/4 in 2.) Shower Head/Push Button/Valve Orientation: DVLR Ligature-resistant Diverter Valve Closure Panels	. ,
□ L Left Hand □ PML1-MA2 Two Single Temp. Pneumatic (Specify Dimensions and Lo Metering Valves in Lieu of Sloping Top Closure	cations)
Diverter Valve Diverter Valve MD Modesty Door (Not ADA-Cor 3.) Cabinet Side Exterior Finish Schedule: 6.) Push Button Selection:	npliant)
(Based on Chase Wall Orientation; Pneumatic or Electronic Valves Only:	
Catalog Section for diagram))	
For (LCS) Left Wall: □ EPB Electronic Push Buttons* □ GBC Grab Bar Closure Plate □ B2 Polished Front & Right Side □ EPBH Ligature-resistant Electronic Push Buttons* □ RD Recessed Mounted Soap Di	sh (Standard)
□ B3 Polished Front only □ PZPB Piezo Push Buttons* □ SD Surface Mounted Soap Dish For (RCS) Right Wall: □ TA Threshold Anchors	
□ C2 Polished Front & Left Side 7.) Flow Rates: □ TMV In-line Thermostatic Mixing \ □ C3 Polished Front only □ 2.5 GPM (Standard) □ TF24H Hard-wired Transformer, 110	
□ 2.0 GPM □ TF24P Plug-in Transformer, 110VAC	to 24VAC*
4.) Valve Selection: Image: Less Fold-up Stainless Stee (NOTE: FSS Fold-up Showe (NO	
□ PML1 Single Temp. Pneumatic Metering □ PML2 Dual Temp. Pneumatic Metering □ PML2 Dual Temp. Pneumatic Metering □ Must Use Electronic Push Button): □ LGB3318 Less 18" x 33" Horizonta	,
□ E1L1 Single Temp. Electronic (Pick Control)* □ WUSC-2200 □ WUSC-2400 mounted L-Shaped Gral □ E1L2 Dual Temp. Electronic (Pick Control)* □ Pneutronic □ WMS II □ LGB24V Less 24" Vertically-mounted L-Shaped Gral	Bar
☐ PBV Pressure-Balancing Mixing Valve ☐ Other	itod Orab Dai
□ TPV Temp/Pressure-Balancing Mixing Valve 9.) Shower Head Selection: □ Other □ TPLR Ligature-resistant Temp/Pressure- □ NPS Non-adjustable Penal Shower Head *(Req. 110V power through ground fault)	t interrupter
Balancing Mixing Valve	
□ APS Adjustable Penal Shower Head□ CSH Ligature-resistant Shower Head	
☐ 2HD (2) Fixed Shower Heads, Replaces (FX)	
Approved For Manufacturing By: Date: Company:	
Wall Thickness: Wall Type:	
17"x 40"x 5" WALL RECESS EOD VALVES 17"x 40"x 5" WALL RECESS EOD VALVES 17"x 40"x 5" WITH A.D.A. 2010 18" MOTE: 18" MINIMUM CHASE AREA REQUIRED ON 18" MINIMUM CHASE AREA REQUIRED ON	
SEAT 2-WALL GRAB BAR VALVE / SOAP DISH SIDE	
REMOVABLE GRID STRAINER SECURED W/ VANDAL RESISTANT SCREWS	
11 GA. SLIP-RESISTANT GLASS-BLAST FLOOR 14 GA. S/S REMOVABLE 15" 15"	
1 1/2"	
REMOVABLE GRID STRAINER SECURED W/ VANDAL RESISTANT SCREWS 11 GA, SUP-RESISTANT GLASS-BLAST FLOOR 14 GA, S/S REMOVABLE ACCESS PANEL 40" x 17" ATTACHED W/ (6) VANDAL RESISTANT SCREWS 11 I/2" 11/2" 11/2" 11/2" 11/2" 11/2" 11/2" 11/2" 11/2" 11/2" 11/2" 11/2" 11/2" 11/2" 11/2" 11/2" 11/2" 11/2" 11/2" 11/3" 11/4 GA, S/S REMOVABLE ACCESS PANEL 40" x 17" ATTACHED W/ (6) VANDAL RESISTANT SCREWS (NPS) NON-ADJUSTABLE VANDAL RESISTANT SCOWEN'S CHORNER RESISTANT SCOWEN'S CHORNER RESISTANT SHOWER HEAD (48" A.F.F.) FLEXSHOWER HEAD (48" A.F.F.) 11/4 GA, S/S STALL, ALL WELDED SEAMS (NA TO KNOCKDOWN UNITS) 11/4 GA, S/S STALL, ALL WELDED SEAMS (NA TO KNOCKDOWN UNITS) 11/4 GA, S/S STALL, ALL WELDED SEAMS (NA TO KNOCKDOWN UNITS) 11/4 GA, S/S STALL, ALL WELDED SEAMS (NA TO KNOCKDOWN UNITS) 11/4 GA, S/S STALL, ALL WELDED SEAMS (NA TO KNOCKDOWN UNITS) 11/4 GA, S/S STALL, ALL WELDED SEAMS (NA TO KNOCKDOWN UNITS) 11/4 GA, S/S STALL, ALL WELDED SEAMS (NA TO KNOCKDOWN UNITS) 11/4 GA, S/S STALL, ALL WELDED SEAMS (NA TO KNOCKDOWN UNITS) 11/4 GA, S/S STALL, ALL WELDED SEAMS (NA TO KNOCKDOWN UNITS) 11/4 GA, S/S STALL, ALL WELDED SEAMS (NA TO KNOCKDOWN UNITS) 11/5 SAMPLE OF THE SEA OF THE	
VALVE-SIDE— VALVE-SIDE— VALVE-SIDE— FLEXSHOWER HOOK (48" A.F.F.)—	
WALL WITH RECESS SHOWER HEAD (48" A.F.F.)	
SHOWER— VALVE 14 GA. S/S STALL, ALL WELDED SEAMS (N/A TO KNOCKDOWN UNITS)	
GB24V) 24" GRAB BAR FOR VERTICAL MOUNTING FRONT	
GB24V) 24" GRAB BAR FOR VERTICAL MOUNTING FRONT (FSS) S/S FOLD-UP SHOWER SEAT (FSS) S/S FOLD-UP SHOWER HEAD (43" A.F.F.) PUSH BUTTON FOR FLEXSHOWER W/ QUICK (FX) HAND HELD FLEXSHOWER W/ QUICK DISCONNECT & VACUUM BREAKER	
PUSH BUTTON FOR FLEXSHOWER HEAD (43" A.F.F.) PUSH BUTTON FOR FLEXSHOWER W/ QUICK FX) HAND HELD FLEXSHOWER W/ QUICK DISCONNECT & VACUUM BREAKER	
ATT DOUGH BY LEASHOWER HEAD (43, 47.F.) (EX) HAND HELD FLEXSHOWER W QUICK DISCONNECT & VACUUM BREAKER (RD) RECESSED SOAP DISH 1/2" HIGH TRANSOM 1/2" HIGH TRANSOM	
HIGH TRANSOM—	
S FINISHED ELOOR S S S S S S S S S	
FINISHED FLOOR FRONT VIEW FRONT VIEW SIDE VIEW	

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W)

Roll-In Handicap Cabinet Shower



Recommended Specifications

Roll-In Handicap Cabinet Shower shall be: Willoughby Model No. ___**S-3660-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.

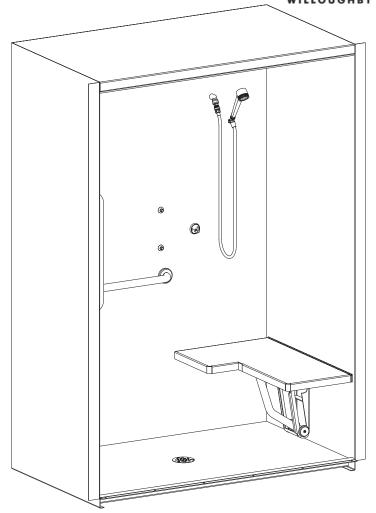
Standard equipment shall include:

- (ICD) Inside caulk drain (2") with removable strainer
- (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

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.



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 Handicap Cabinet Shower with ADA-Compliant back wall chase/shower head/valving, polished front, single temp. pneumatic metering valves, standard pneumatic push buttons, 2.5 GPM flow rate, non-adjustable penal shower head and hand held Flex-shower, and standard inside caulk drain

Use the following Willoughby Model Number: US-3660-HC-B-A4-PML1-MA2-PPB-2.5GPM-NPS-FX-ICD

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. (Specify when ordering, contact your Willoughby representative for further details.)

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Base Model Number: Unitized Roll-in Handicap Cabinet Shower:	Valve Manifold Option: Pneumatic or Electronic Valves Only:	10.) Drain Selection: ICD Inside Caulk Cabinet Shower Drain (2")
☐ US-3660-HC 36"L x 60"W Cabinet Shower	(See the Manifold Option Page at the end of	(Standard)
Knockdown Roll-in Handicap Cabinet Shower: ☐ KS-3660-HC 36"L x 60"W Cabinet Shower	Catalog Section <u>S5</u> for further information) ☐ MA2	11.) Options:
	_	☐ VG Ventilation Grille (Specify Free Area and
2.) Chase Wall/ Shower Head/Valve Orientation: Back Wall, ADA Comp. (BCS Chase)	5.) Diverter Valve: Diverter Valve Diverter Valve	Location; Standard Grille Dimensions: 8-3/4" x 8-3/4" with 15-3/4 in ² open area)
☐ L Left Hand (LCS- Left Chase) ☐ R Right Hand (RCS- Right Chase)	□ DVLR Ligature-resistant Diverter Valve□ PML1-MA2 Two Single Temp. Pneumatic	☐ CP Closure Panels (Specify Dimensions and Locations)
	Metering Valves in Lieu of	☐ STC Sloping Top Closure
3.) Cabinet Side Exterior Finish Schedule: (Based on Chase Wall Orientation;	Diverter Valve	☐ CR Curtain Rod ☐ TH1 Release Towel Hook
see the Options Pages at the end of	6.) Push Button Selection:	GBC Grab Bar Closure Plates
Catalog Section for diagram) For (BCS) Back Wall (ADA Comp.):	Pneumatic or Electronic Valves Only: ☐ PPB Pneumatic Push Buttons	□ RD Recessed Mounted Soap Dish (Standard)□ SD Surface Mounted Soap Dish
☐ A1 Polished Front, Left Side, & Right Side ☐ A2 Polished Front & Right Side	☐ PBH Ligature-resistant Push Buttons ☐ EPB Electronic Push Buttons**	☐ TA Threshold Anchors ☐ TMV In-line Thermostatic Mixing Valve
☐ A3 Polished Front & Left Side	☐ EPBH Ligature-resistant Electronic Push Buttons**	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC**
A4 Polished Front only For (LCS) Left Chase:	☐ PZPB Piezo Push Buttons**	☐ TF24P Plug-in Transformer, 110VAC to 24VAC** ☐ LFSS Less Fold-up Stainless Steel Shower Seat
☐ B2 Polished Front & Right Side	7.) Flow Rates:	(NOTE: LFSS Option will require (1) centered 48"
☐ B3 Polished Front only For (RCS) Right Chase:	☐ 2.5 GPM (Standard) ☐ 2.0 GPM	back-wall grab bar, and (2) centered 24" side-wall grab bars (included)
C2 Polished Front & Left Side C3 Polished Front only	☐ 1.5 GPM	Other Other
_ ,	8.) Electronic Controls**	**(Req. 110V power through ground fault interrupter
4.) Valve Selection: NV No Valve	(Must Use Electronic Push Button): ☐ WUSC-2200 ☐ WUSC-2400	(GFCI) receptacle)
PML1 Single Temp. Pneumatic Metering	☐ Pneutronic ☐ WMS II	
☐ PML2☐ E1L1☐ E1L1☐ E1L1Dual Temp. Pneumatic Metering☐ Single Temp. Electronic (Pick Control)**	9.) Shower Head Selection:	
☐ E1L2 Dual Temp. Electronic (Pick Control)** ☐ PBV Pressure-Balancing Mixing Valve	NPS Non-adjustable Penal Shower Head (Stnd.)FX Hand Held Flexshower w/ Quick Disconnect	*NOTE: US/KS-3660-HC is in compliance with ADA 2010
☐ TPV Temp/Pressure-Balancing Mixing Valve	and Vacuum Breaker (Standard)	standards when equipped with valve controls mounted
☐ TPLR Ligature-resistant Temp/Pressure-	APS Adjustable Penal Shower Head	an the Deal Well of the first up adjacent to the Cold
Balancing Mixing Valve	CSH Ligature-resistant Shower Head	on the Back Wall of the fixture, adjacent to the Fold- up Shower Seat. (Specify when ordering, contact your
Balancing Mixing Valve	_ ,	
Balancing Mixing Valve	☐ CSH Ligature-resistant Shower Head	up Shower Seat. (Specify when ordering, contact your
Approved For Manufacturing By:	CSH Ligature-resistant Shower Head 2HD (2) Fixed Shower Heads, Replaces (FX) Date:	up Shower Seat. (Specify when ordering, contact your
Approved For Manufacturing By:	☐ CSH Ligature-resistant Shower Head ☐ 2HD (2) Fixed Shower Heads, Replaces (FX)	up Shower Seat. (Specify when ordering, contact your Willoughby representative for further details.)
Approved For Manufacturing By:	CSH Ligature-resistant Shower Head 2HD (2) Fixed Shower Heads, Replaces (FX) Date: Wall Type: P IN COMPLIANCE * NOTE	up Shower Seat. (Specify when ordering, contact your Willoughby representative for further details.) Company:
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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



Roll-In Front Access Handicap 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)

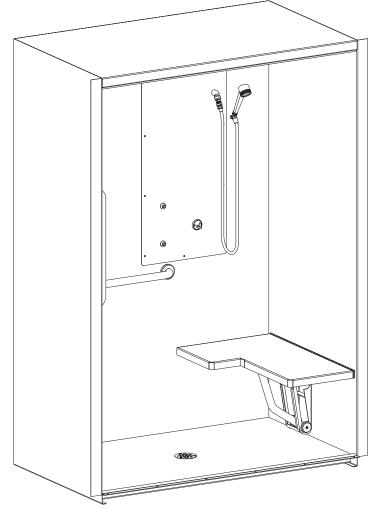
Shower cabinet shall be fabricated from 14 GA., Type 304 stainless steel. Shower floor shall be fabricated from 11 GA., Type 304 stainless steel. The construction shall be *all-welded* (unitized models only, not applicable to knockdown models), exposed stainless surfaces polished to a #4 satin finish, 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

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.



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 back wall shower head/push button/valving, polished front, single temp, pneumatic metering valves, standard pneumatic push buttons, 2.5 GPM flow rate, non-adjustable penal shower head and hand held Flexshower, and standard inside caulik drain

Use the following Willoughby Model Number: US-3660-HC-FA-B-A4-PML1-MA2-PPB-2.5GPM-NPS-FX-ICD

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. (Specify when ordering, contact your Willoughby representative for further details.)

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MADE IN THE **U.S.A**.

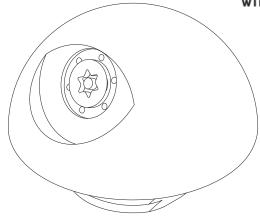
© Rev. 10/2017 \$5-35

1.) Base Model Numb	er:	Valve Manifold Opt	tion:	10.) Drain S	election:
	oll-in Handicap Front	Pneumatic or Electro	-	☐ ICD	Inside Caulk Cabinet Shower Drain (2")
	abinet Shower:	•	old Option Page at the end of		(Standard)
_	36"L x 60"W Cabinet Shower	-	n <u>S5</u> for further information)		
· · · · · · · · · · · · · · · · · · ·	vn Roll-in Handicap Front	☐ MA2		11.) Options	
KS-3660-HC-FA	abinet Shower: 36"L x 60"W Cabinet Shower	5.) Diverter Valve:		☐ VG	Ventilation Grille (Specify Free Area and
☐ KS-3000-HC-FA	36 L X 60 W Cabinet Shower	DV	Diverter Valve		Location; Standard Grille Dimensions: 8-3/4" x 8-3/4" with 15-3/4 in ² open area)
2.) Shower Head/Pusi	n Button/Valve Orientation:	DVLR	Ligature-resistant Diverter Valve	☐ CP	Closure Panels
,	I, ADA Compliant	☐ PML1-MA2	Two Single Temp. Pneumatic	_	(Specify Dimensions and Locations)
L Left Hand		_	Metering Valves in Lieu of	☐ STC	Sloping Top Closure
Right Har	nd		Diverter Valve	☐ CR	Curtain Rod
		6.) Push Button Sel		☐ TH1	Release Towel Hook
3.) Cabinet Side Exter			etronic Valves Only:	GBC	Grab Bar Closure Plates
•	Chase Wall Orientation;	_	natic Push Buttons	☐ RD	Recessed Mounted Soap Dish (Standard)
	otions Pages at the end of ection for diagram)	_	e-resistant Push Buttons nic Push Buttons*	☐ SD ☐ TA	Surface Mounted Soap Dish Threshold Anchors
For (B) Back Wall (AL	<u> </u>	_	e-resistant Electronic Push Buttons*	☐ TMV	In-line Thermostatic Mixing Valve
	ront, Left Side, & Right Side	_	Push Buttons*	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC*
	ront & Right Side	_		TF24P	Plug-in Transformer, 110VAC to 24VAC*
	ront & Left Side	7.) Flow Rates:		☐ LFSS	Less Fold-up Stainless Steel Shower Seat
☐ A4 Polished F	ront only	2.5 GPM (Standa	ard)		(NOTE: LFSS Option will require (1) centered 48"
For (L) Left Wall:		■ 2.0 GPM			back-wall grab bar, and (2) centered
	ront & Right Side	■ 1.5 GPM			24" side-wall grab bars (included)
B3 Polished F	ront only	0 \ 514			
For (R) Right Wall: C2 Polished F	ront & Left Side	8.) Electronic Conti	rois* ronic Push Button):	Other _	V power through ground fault interrupter
C2 Polished F		WUSC-2200	WUSC-2400		GFCI) receptacle)
- 00 Tollstica i	Torit only	_	WMS II	'	(SI OI) ICOCPIACIO)
4.) Valve Selection:			•		
■ NV No Valve		9.) Shower Head Se	election:		
	mp. Pneumatic Metering	_	ljustable Penal Shower Head (Stnd.)		
	p. Pneumatic Metering	_	Held Flexshower w/ Quick Disconnect		
	mp. Electronic (Pick Control)*		cuum Breaker (Standard)	*NOTE:	110/// 00000 110 is in several is a several to the ADA 0040
_	p. Electronic (Pick Control)* Balancing Mixing Valve	_ ,	able Penal Shower Head e-resistant Shower Head		US/KS-3660-HC is in compliance with ADA 2010 Is when equipped with valve controls mounted
T LDA LIESSUIE	balancing wilking valve				
	ssure-Balancing Mixing Valve				
☐ TPV Temp/Pre	ssure-Balancing Mixing Valve resistant Temp/Pressure-		ed Shower Heads, Replaces (FX)	on the B	ack Wall of the fixture, adjacent to the Fold- ver Seat. (Specify when ordering, contact your
☐ TPV Temp/Pre☐ TPLR Ligature-r	0 0			on the Baup Show	ack Wall of the fixture, adjacent to the Fold-
☐ TPV Temp/Pre☐ TPLR Ligature-r	esistant Temp/Pressure-			on the Baup Show	ack Wall of the fixture, adjacent to the Fold- rer Seat. (Specify when ordering, contact your
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TPV Temp/Pre Ligature-i Balancing Approved For M Wall Thickness:	Pesistant Temp/Pressure- Unixing Valve Ilanufacturing By: 1 1/2* TYP. 2 - 1 1/2* TYP.	Wall Type:	Date: N COMPLIANCE MITH A.D.A. 2010 MITH A.D	on the Bup Show Willough Co Co MILIM CHASE AREA RED ON VALVE / DISH SIDE ALL CONTROLS MOUNTED ON MOVABLE PANEL (20"W X 42"H) IEAD JICK KER HEAD WER	ack Wall of the fixture, adjacent to the Fold- ver Seat. (Specify when ordering, contact your by representative for further details.) mpany: VALVE-SIDE BACK WALL SHOWER VALVES SHOWER VALVES
TPV Temp/Pre Ligature-i Balancing Approved For M Wall Thickness:	Pesistant Temp/Pressure- J Mixing Valve Janufacturing By: 1 1/2* TYP. 22 3/8* A	Wall Type:	Date: N COMPLIANCE MITH A.D.A. 2010 MITH A.D	on the Bup Show Willough Co MUM CHASE AREA RED ON VALVE / DISH SIDE ALL CONTROLS MOUNTED ON EMOVABLE PANEL (20"W X 42"H) JEAD JIEAD	ack Wall of the fixture, adjacent to the Fold- ver Seat. (Specify when ordering, contact your by representative for further details.) mpany: VALVE-SIDE BACK WALL WITH RECESS MOUNTED TO MOUNTED TO
TPV Temp/Pre Ligature-i Balancing Approved For M Wall Thickness:	Pesistant Temp/Pressure- J Mixing Valve Janufacturing By: 1 1/2* TYP. 22 3/8* A 22 3/8* A	Wall Type:	Date: N COMPLIANCE MOTE ST MINITE	on the Bup Show Willough Co MUM CHASE AREA RED ON VALVE / DISH SIDE ALL CONTROLS MOUNTED ON EMOVABLE PANEL (20"W X 42"H) JEAD JIEAD	ack Wall of the fixture, adjacent to the Fold- ver Seat. (Specify when ordering, contact your by representative for further details.) mpany: VALVE-SIDE BACK WALL WITH RECESS MOUNTED TO SHOWER PANEL 85*
TPV Temp/Pre Ligature-i Balancing Approved For M Wall Thickness:	Pesistant Temp/Pressure- J Mixing Valve Ilanufacturing By: 1 1/2 TYP. 22 J/8" A 72" FIXED	Wall Type:	Date: Date: NCOMPLIANCE S'MININGE SOAP E " (GB30) HORIZONTAL 30° GRAB BAR REMOVABLE STRAINER ATTACHED TO 11 GA. SIS SUP-RESISTANT FLOOR (GB24) HORIZONTAL 24° GRAB BAR (NPS) NON-ADJUSTABLE PENAL SHOWER H (FX) HAND HELD FLEXSHOWER W, OLD DISCONNECT & VACUUM BREAL PUSH BUTTON FOR (FX) FLEXSHOW GB24V) VERTICAL 24° GRAB I	On the B. up Show Willough CO MUM CHASE AREA RED ON VALVE / DISH SIDE ALL CONTROLS MOUNTED ON MOVABLE PANEL (20"W X 42"H) JEAD JIEAD J	ack Wall of the fixture, adjacent to the Fold- ver Seat. (Specify when ordering, contact your by representative for further details.) mpany: VALVE-SIDE BACK WALL WITH RECES SHOWER VALVES MOUNTED TO SHOWER VALVES REQUIRED FOR
TPV Temp/Pre Ligature-i Balancing Approved For M Wall Thickness:	Pesistant Temp/Pressure- J Mixing Valve Janufacturing By: 1 1/2" TYP. 22 3/6" A 72" FIXED SHOWER HEAD 40" 34"	Wall Type:	Date: Date: N COMPLIANCE MITH A.D.A. 2010 NOTE: SMAPE	On the B. up Show Willough CO MUM CHASE AREA RED ON VALVE / DISH SIDE ALL CONTROLS MOUNTED ON MOVABLE PANEL (20"W X 42"H) JEAD JIEAD J	ack Wall of the fixture, adjacent to the Fold- ver Seat. (Specify when ordering, contact your by representative for further details.) mpany: VALVE-SIDE BACK WALL WITH RECESS MOUNTED TO SHOWER PANEL 83' WALL RECESS
DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN BY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND ITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION. THOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.	esistant Temp/Pressure- I Mixing Valve Ilanufacturing By: 1 1/2" TYP. 22 3/8" A 72" FIXED SHOWER HEAD	Wall Type:	Date: N COMPLIANCE MOTE ST MINITE	on the Bup Show Willough Co MUM CHASE AREA RED ON VALVE / DISH SIDE ALL CONTROLS MOUNTED ON MOVABLE PANEL (20"W X 42"H)	ack Wall of the fixture, adjacent to the Fold- ver Seat. (Specify when ordering, contact your by representative for further details.) mpany: VALVE-SIDE BACK WALL WITH RECES SHOWER VALVES MOUNTED TO SHOWER VALVES REQUIRED FOR
DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN The triggraph of the right	resistant Temp/Pressure- In Mixing Valve Ilanufacturing By: 1 1/2 TYP. 22 3/8" A 27 FIXED SHOWER HEAD 40" GRAB	Wall Type:	Date: Date: NCOMPLIANCE SYMIN A.D.A. 2010 NOTE: SYMIN REQUIRED SOAP IN COMPLIANCE SYMIN REGUIRED SOAP IN COMPLIANCE SYMIN REGUIRED SOAP IN COMPLIANCE SYMIN REGUIRED SYMIN SYMIN REAL SYMIN	on the Bup Show Willough Co MUM CHASE AREA RED ON VALVE / DISH SIDE ALL CONTROLS MOUNTED ON MOVABLE PANEL (20"W X 42"H)	ack Wall of the fixture, adjacent to the Fold- ver Seat. (Specify when ordering, contact your by representative for further details.) mpany: VALVE-SIDE BACK WALL WITH RECES SHOWER VALVES MOUNTED TO SHOWER VALVES REQUIRED FOR
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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.

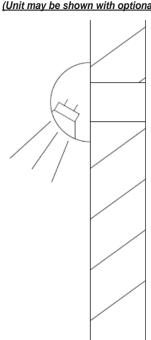
OPTIONS:

- 17° angle of spray (#380024) ☐ CSH17
- 2.5 2.5 Flow (Standard)
- 2.0 In-line Flow Control

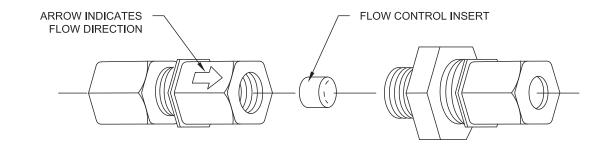
(See detail below; tubing must be 3/8" O.D. polyethylene)

■ 1.5 1.5 In-line Flow Control

(See detail below; tubing must be 3/8" O.D. polyethylene)

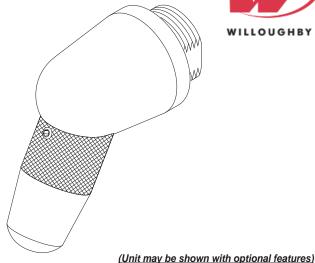


PART #380142-B IN-LINE FLOW CONTROL ASSEMBLY



WILL DUE HERY

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. The entire unit has a ligature-resistant rounded and tapered design. Spray pattern is adjustable by the user.

OPTIONS:

☐ APS17 17° angle of spray (#380026)

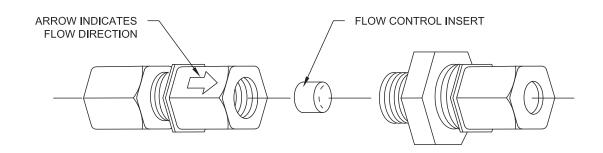
☐ 2.5 2.5 Flow (Standard)

☐ 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

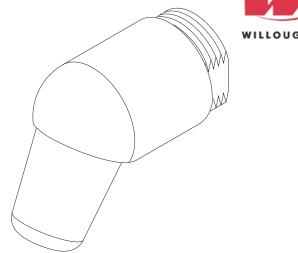
(See detail below; tubing must be 3/8" O.D. polyethylene)





W)

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)

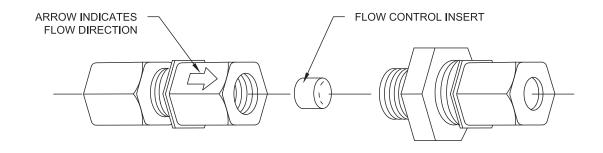
☐ 2.5 2.5 Flow (Standard)

■ 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

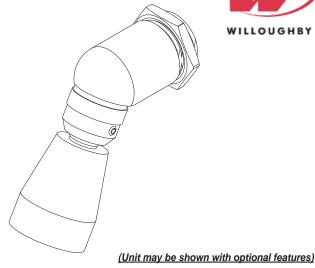
(See detail below; tubing must be 3/8" O.D. polyethylene)







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.

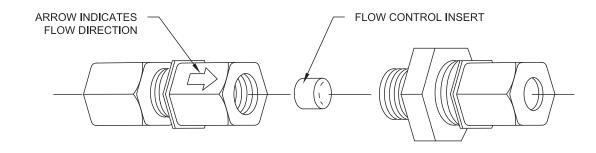
OPTIONS:

- ☐ 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

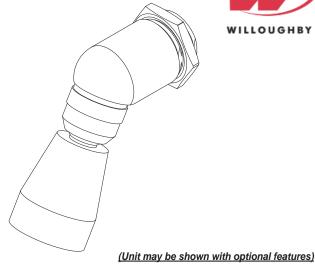
(See detail below; tubing must be 3/8" O.D. polyethylene)







UBJ Universal Ball Joint Shower Head (#380027)



Recommended Specifications

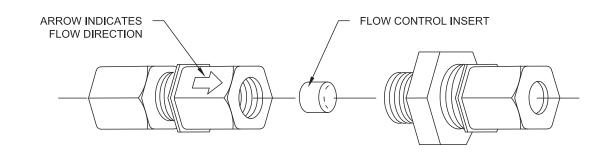
Willoughby model UBJ universal ball joint shower head shall be fixed type, constructed of chrome-plated brass, mounted from the rear with no visible fasteners or removable parts. The head shall have 3/8" F.I.P. threads on the inlet. The shower head spray direction is user adjustable.

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)

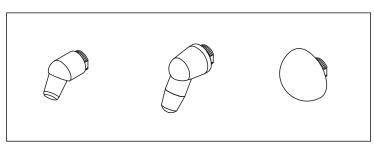
☐ 1.5 In-line Flow Control (See detail below; tubing must be 3/8" O.D. polyethylene)





OPTIONS





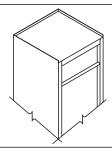
NON-ADJUSTABLE PENAL SHOWER HEAD

(APS) **SHOWER HEAD**

(CSH) **SHOWER HEAD**

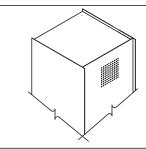
(SD) **SOAP DISH**

(RD) ADJUSTABLE PENAL LIGATURE-RESISTANT SURFACE MOUNTED RECESSED MOUNTED **SOAP DISH**



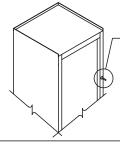
1"DIA. STAINLESS STEEL TUBE WELDED TO BOTH SIDES OF DOOR JAMB FOR SHOWER CURTAIN BOD INSTALLATION. SHOWER CURTAIN

(CR) CURTAIN ROD



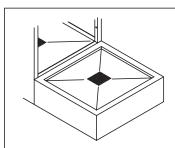
VENTILLATION GRILLE, HAS A SERIES OF 1/4" HOLES ON 1/2" CENTERS

(VG) VENTILATION GRILLE (SPECIFY FREE AREA AND LOCATION)



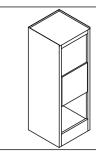
PRESSURE ACTIVATED BELEASE TOWEL HOOK WILL SUPPORT LIGHT CLOTHING AND TOWEL LOADS, HOWEVER, EXCESSIVE LOADS PLACED ON THE HOOK WILL RENDER ITS FUNCTION USELESS.

(TH1) TOWEL HOOK



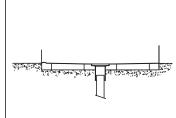
THIS OPTION PROVIDES A SHOWER CABINET WITH AN ADJOINING DRYING AREA WHICH FEATURES A GLASS BLAST FINISH, AND INTEGRAL DRAIN.

(DR) DRYING RECEPTOR



WHEN BOTH PRIVACY AND THE NEED TO MONITOR THE SHOWER AREA ARE REQUIRED, THIS OPTION PROVIDES A SHOWER CABINET WITH A BEINFORCED STAINLESS STEEL DOOR, WHICH IS ATTACHED BY A SELF CLOSING HINGE, AND ACCOMPANIED BY A HEAVY GAUGE STAINLESS STEEL DOOR STOP.

(MD) MODESTY DOOR (NOT ADA COMPLIANT)



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.

(ICD) INSIDE CAULK DRAIN (STANDARD ON ADA CABINET SHOWERS)

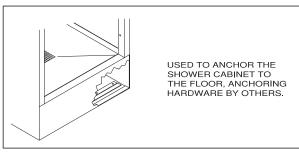
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OPTIONS (CONTINUED)

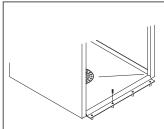




(ZC) Z-CLIP FOR FLOOR MOUNTING



(2HD) TWO FIXED SHOWER HEADS



THE THRESHOLD OF A CABINET SHOWER OR A SHOWER RECEPTOR IS SECURED TO THE FLOOR THROUGH THE SPECIFICATION OF THIS OPTION. SECURITY SCREWS PROVIDED, FLOOR ANCHORS BY OTHERS.

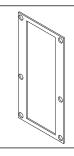
(TA) THRESHOLD ANCHORS



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.

(WS) WALL SLEEVE



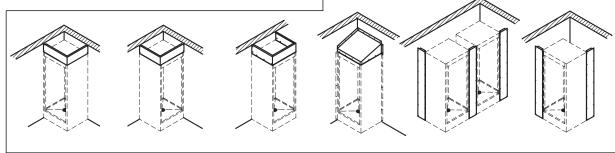
CONSTRUCTED OF 18 GAUGE GALVANIZED STEEL.

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) METAL TEMPLATE

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.

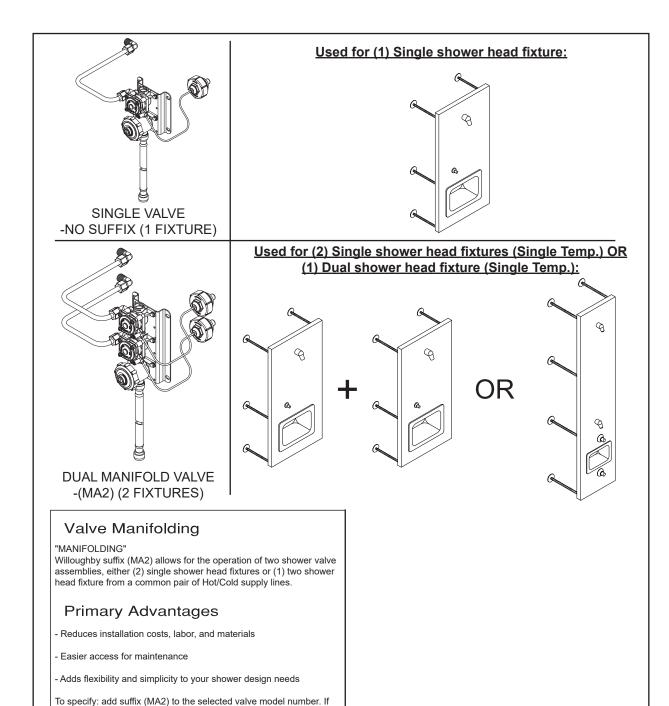


(CP) CLOSURE PANELS



OPTIONS (CONTINUED)

SHOWER VALVE MANIFOLDING OPTION



manifolding (2) single shower head fixtures, be sure to specify this to

your sales representative when placing your order.

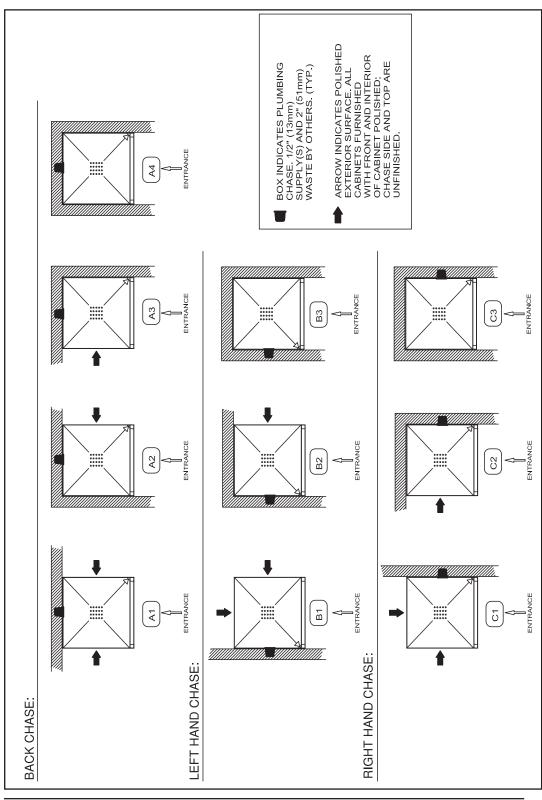
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WILLOUGHBY

OPTIONS (CONTINUED)

CABINET SHOWER FINISH SCHEDULE- NON-ADA MODELS



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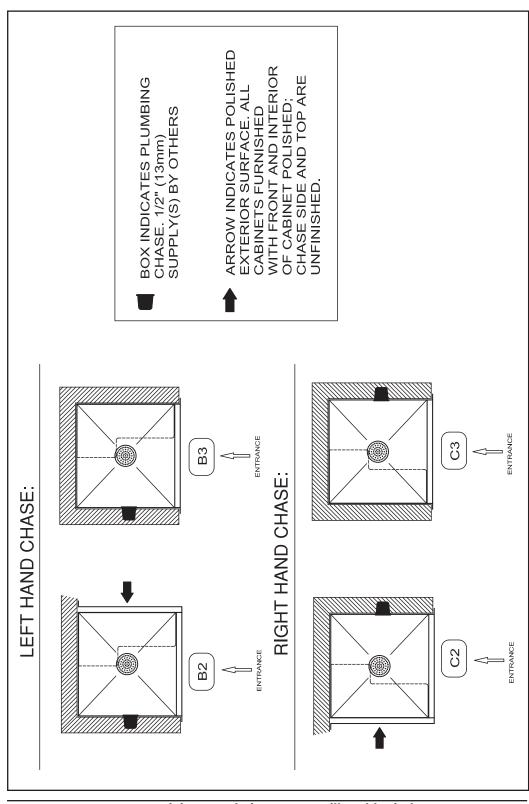
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OPTIONS (CONTINUED)

CABINET SHOWER FINISH SCHEDULE- ADA-COMPLIANT MODELS

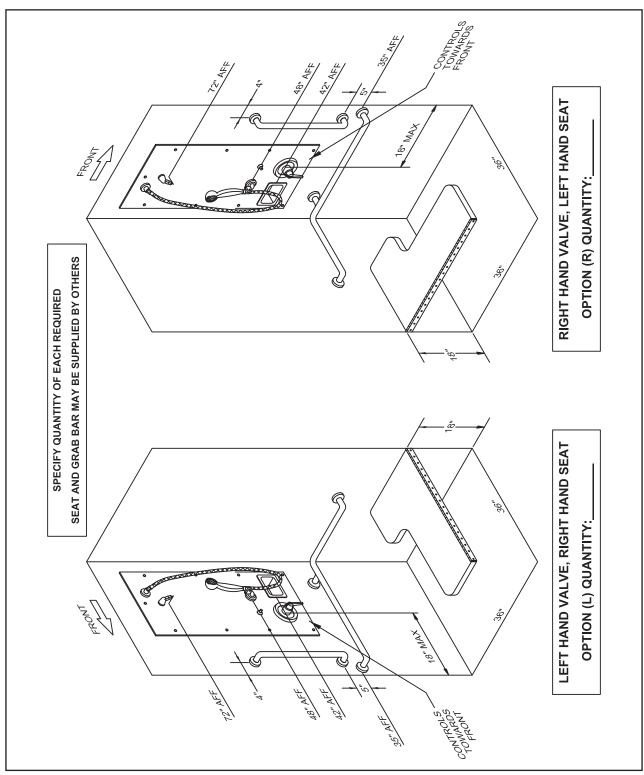




WILLDUGHRY

OPTIONS (CONTINUED)

SHOWER STALL LAYOUT FOR ADA COMPLIANCE

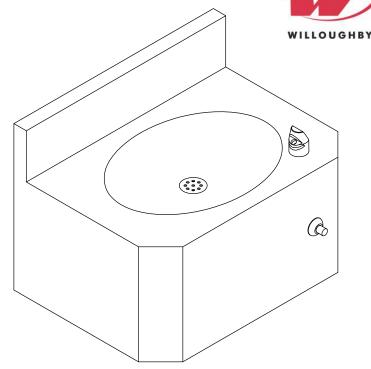


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DF-1013-96 **Rear Mounted Drinking Fountain**



(Unit may be shown with optional features)

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

Example: To specify a Rear Mounted Drinking Fountain with standard drinking fountain bubbler, standard single temp. non-metering pneumatic valve and push button, and standard elbow waste

Use the following Willoughby Model Number: DF-1013-96-DB-PSL1-PPB-EB

Recommended Specifications

Rear Mounted Drinking Fountain shall be: Willoughby Model No. DF-1013-96 (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 basin, 13" x 9-1/2" x 1-1/2" deep
- Integral fast drain with air vent
- (DB) stainless steel drinking fountain bubbler
- (PSL1) Single temperature, non-metering pneumatic valve w/ (PPB) push button
- (EB) elbow waste (1-1/4" F.I.P.)

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"

Unit shall require chase area for installation and maintenance.

Vandal Resistance:

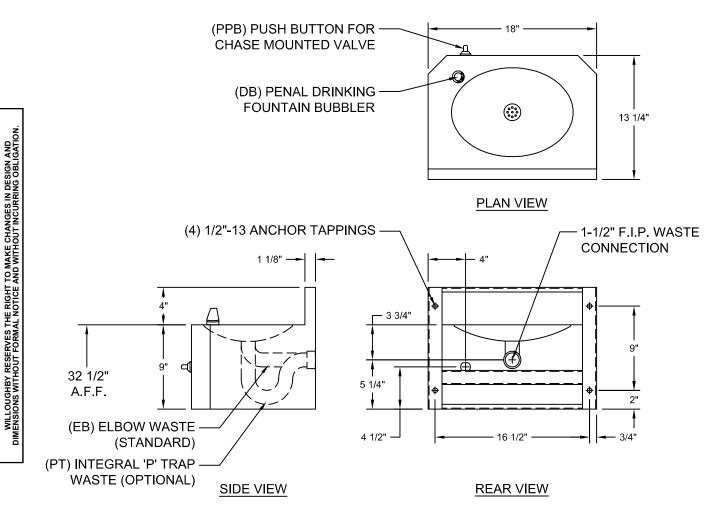
All push buttons and escutcheons are secured to the unit from within the fixture. Valves, water supplies, and waste connections are concealed within.



© Rev. 5/2016 S6-1

1.) I	Drinking F	ountain Model:	5.) Drinking	Fountain Waste:
ا 🗖	DF-1013-9	6 Drinking Fountain	☐ EB	Elbow Waste (Standard)
		-	PT	Integral 'P'-Trap
2.) I	Bubbler S	election:	☐ LWE	Lavatory Waste Extension
	DB	Drinking Fountain Bubbler (Standard)	☐ LW1	Thru-Wall Extension, 'P'-Trap and Clean-Ou
			LW2	Thru-Wall Extension and Clean-Out
3.) \	Valve Sele	ction:		
	PSL1	Single Temp. Pneumatic Non-metering (Standard)	6.) Other O	otions:
			□ MT	Wall Template
4.) I	Push Butte	on Selection:	□ WS	Wall Sleeve (Requires Accessible Chase)
	PPB	Pneumatic Push Button (Standard)	Other:	
			Other:	

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



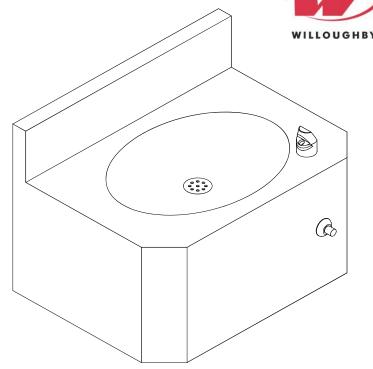
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VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

DF-1013-96-FA Front Mounted 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 Front Mounted Drinking Fountain with standard drinking fountain bubbler, standard single temp. non-metering pneumatic valve and push button, standard removable 'p'-trap, and stainless steel wall back-panel

Use the following Willoughby Model Number: DF-1013-96-FA-DB-PSL1-PPB-RPT-WPB

Recommended Specifications

Front Mounted Drinking Fountain shall be: Willoughby Model No. **DF-1013-96-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 fast drain with air vent
- (DB) stainless steel drinking fountain bubbler
- (PSL1) Single temperature, non-metering pneumatic valve w/ (PPB) 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.



1.) Drinking Fountain Model:		5.) Drinking	5.) Drinking Fountain Waste:		
☐ DF-1013	3-96-FA	Front Mounted Drinking Fountain	☐ RPT	Slip Joint, Cast Brass Union 'P'-trap (Removable, 1-1/2") (Standard)	
2.) Bubbler	r Selection:		6.) Other O	ptions:	
DB Drinking Fountain Bubbler (Standard)		☐ MT ☐ Other:	Wall Template		
3.) Valve Selection:		Other:			
☐ PSL1 Single Temp. Pneumatic Non-metering (Standard)					
4.) Push Bi	utton Selection:				

(PPB) PUSHBUTTON TO (PSL1) VALVE (DB) PENAL DRINKING FOUNTAIN BUBBLER (DB) PENAL DRINKING FOUNTAIN BUBBLER (DB) PENAL DRINKING FOUNTAIN BUBBLER (CHPI) 1-1/2" SLIP JOINT (CAST BRASS P' TRAP (CA	Approved For Manufacturing By: Wall Thickness:		Company:
REMOVABLE BOTTOM — (2) Ø5/16" MOUNTING — PANEL W/ VANDAL HOLES, ANCHORING		(PPB) PUSHBUTTON — TO (PSL1) VALVE (DB) PENAL DRINKING —	2
RESISTANT SCREWS HARDWARE DT OTHERS	REMOVABLE BOTTOM — PANEL W/ VANDAL	FLEX HOSE TO SUPPLY (1/2" F.P.T.) VALVE ASSEMBLY MOUNTED TO CABINET INTERIOR (2) Ø5/16" MOUNTING HOLES, ANCHORING	32 1/2" A.F.F.

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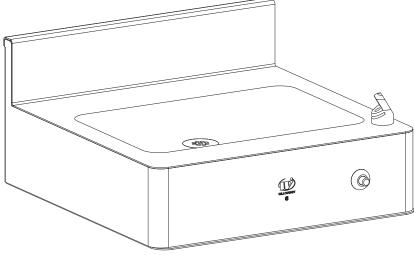


☐ PPB

Pneumatic Push Button (Standard)

WILLOUGHBY

DF-1015-96-HC
Handicap-ADA Compliant
Rear Mounted
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 Handicap-ADA Compliant, Rear Mounted Drinking Fountain with standard drinking fountain bubbler, standard single temp. non-metering pneumatic valve and push button, and standard elbow waste

Use the following Willoughby Model Number: DF-1015-96-HC-DB-PSL1-PPB-EB

Recommended Specifications

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
- (DB) stainless steel drinking fountain bubbler
- (PSL1) Single temperature, non-metering pneumatic valve w/ (PPB) push button
- (EB) elbow waste (1-1/2" F.I.P.)

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.



1.) Drinking Fountain Model:

☐ DF-1015-96-HC Handicap-ADA Compliant,

Rear Mounted Drinking Fountain □ PT Integral 'P'-Trap

2.) Bubbler Selection:

□ DB Drinking Fountain Bubbler (Standard)

3.) Valve Selection:

☐ PSL1 Single Temp. Pneumatic Non-metering (Standard)

4.) Push Button Selection:

PPB Pneumatic Push Button (Standard)

5.) I	Drinking	Fountain	Waste:
-------	----------	----------	--------

□ EB Elbow Waste (Standard)

LWE Lavatory Waste Extension Thru-Wall Extension, 'P'-Trap and Clean-Out LW1

6.) Other Options:

□ MT Wall Template

■ WS Wall Sleeve (Requires Accessible Chase)

Other:

☐ Other:

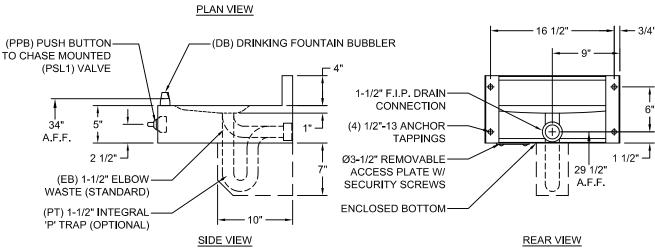
Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		

18" FAST DRAIN 1" DEEP DIE DRAWN BASIN 20° 15" 18'



NOTE:

33" RIM HEIGHT SHOWN, 34" BUBBLER (34" AND 36" MAX ADULT ADA HEIGHTS, RESPECTIVELY) ADJUST DIMENSIONS ACCORDINGLY FOR ALTERNATE HEIGHTS



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DF-1015-96-HC-FA **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 push button, and standard removable 'p'-trap

Use the following Willoughby Model Number: DF-1015-96-HC-FA-DB-PSL1-PPB-RPT

Recommended Specifications

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
- (DB) stainless steel drinking fountain bubbler
- (PSL1) Single temperature, non-metering pneumatic valve w/ (PPB) 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.

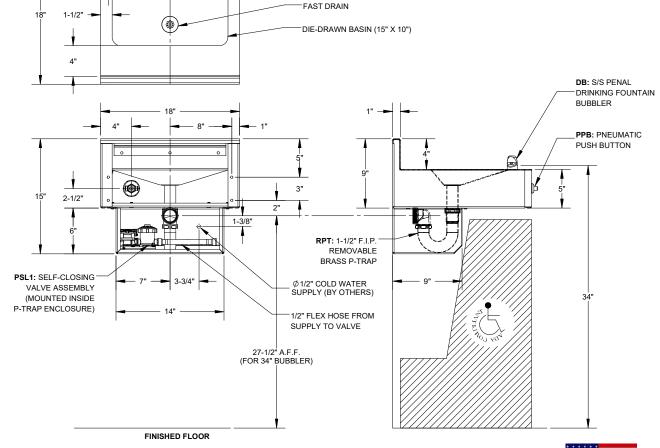
1.) Drinking Fountain Model: DF-1015-96-HC-FA Handicap-ADA Compliant, Front Mounted Drinking Fountain 2.) Bubbler Selection: DB Drinking Fountain Bubbler (Standard) 3.) Valve Selection: PSL1 Single Temp. Pneumatic Non-metering (Standard) 4.) Push Button Selection:

Pneumatic Push Button (Standard)

□ PPB

5.) Drinking RPT	Fountain Waste: Slip Joint, Cast Brass Union 'P'-trap (Removable, 1-1/2") (Standard)
6.) Other Op	otions: Wall Template
☐ Other: ☐ Other:	

Approved For Manufacturing By: Wall Thickness:		Date:	Company:
3" 1" 18" 1-1/2" 4"		ST DRAIN E-DRAWN BASIN (15" X 10")	IN COMPLIANCE WITH A.D.A. 2010
TO ROUGH-IN IDESIGN AND ING OBLIGATION. 18.	-	1" -=-	DB: S/S PENAL DRINKING FOUNTAIN BUBBLER



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DF-1812-FA **Small Profile Handicap-ADA Compliant Front Access 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 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

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 and attachment screws 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 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 Small Profile, Handicap-ADA Compliant, Front Access Drinking Fountain 2.) Bubbler Selection: CDB Drinking Fountain Bubbler (Standard) 3.) Valve Selection: PSL1 Single Temp. Pneumatic Non-metering (Standard) 4.) Push Button Selection:

Pneumatic Palm Push Button (Standard)

PLPB

5.) Drinking Fountain Waste:		
RPT	Slip Joint, Cast Brass Union 'P'-trap (Removable, 1-1/2") (Standard)	
6.) Other C	Ontions:	
	Wall Template	
_	•	
WBP	Stainless Steel Wall Back-Panel	
Other:		
☐ Other:		

Approve	ed For Manufacturing By:	Date:	Company:
Wall Th	ickness: 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.	(PLPB) PALM PUSH BUTTON TO (CDB) DRINKING FOUNTAIN BUBBLER 12" 18" PLAN VIEW (4) Ø3/8" N	FIXTURE MO (DF-18:	IN COMPLIANCE WITH A.D.A. 2010 DUNTING PLATE 12-FA) FIXTURE
ENSIONS WITH FACT SERVES THE RIGHT TO MAI UT FORMAL NOTICE AND WI	VALVE, CHECK STOP, ——— (4) Ø5/16" N	PPLY BY OTHERS MOUNTING HOLES ARE BY OTHERS) 1 7/16"	9" - 6" - 1" - 1" - 1"
VERIFY ALL DIMENSIONS WITH WILLOUGHBY RESERVES THE RIGHT DIMENSIONS WITHOUT FORMAL NOTICE	27" A.F.F. 1-1/2" F.I.P. TRA	31 1/8" A.F.F.	4 5/8"

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REMOVABLE ACCESS PANEL

W/ S/S SECURITY SCREWS

SIDE VIEW

33" RIM HEIGHT SHOWN, 34" BUBBLER (34" AND 36" MAX ADULT ADA HEIGHTS, RESPECTIVELY) ADJUST DIMENSIONS ACCORDINGLY FOR ALTERNATE HEIGHTS

NOTE:

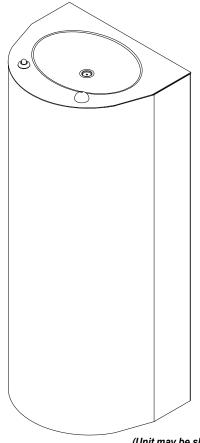
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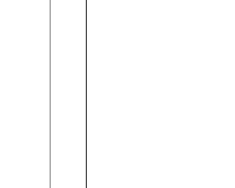


REAR VIEW



ASDF-1013-06 Ligature-resistant Wall Mounted 18" Wide 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, Wall Mounted, 18" Wide Drinking Fountain with standard ligature-resistant drinking fountain bubbler, single temp electronic valve, piezo 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-E1L1-PZPB-EB-LW1-WS

Recommended Specifications

Ligature-resistant, Wall 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" F.I.P.)

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

Mounting:

Anchoring shall be by standard 4-point system: \emptyset 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.

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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1.) Drinking Fountain Model:

☐ ASDF-1013-06 Ligature-resistant, Wall Mounted,

18" Wide Drinking Fountain

2.) Bubbler Selection:

■ DMBH Deck Mounted Ligature-resistant Bubbler (Standard)

3.) Valve Selection:

Single Temp. Pneumatic Non-metering (Standard) ☐ PSL1

Single Temp. Pneumatic Metering ☐ PML1

□ E1L1 Single Temp. Electronic*

4.) Push Button Selection:

PBH Ligature-resistant Pneumatic Push Button (Standard)

Ligature-resistant Electronic Push Button* ■ EPBH

□ PZPB Piezo Push Button*

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

- \			
5.)	Drinking	Fountain	waste:

□ ЕВ Elbow Waste (Standard)

□ PT Integral 'P'-Trap ☐ LWE Lavatory Waste Extension

Thru-Wall Extension, 'P'-Trap, and Clean-Out LW1

LW2 Thru-Wall Extension and Clean-Out

6.) Other Options:

□ MT Wall Template

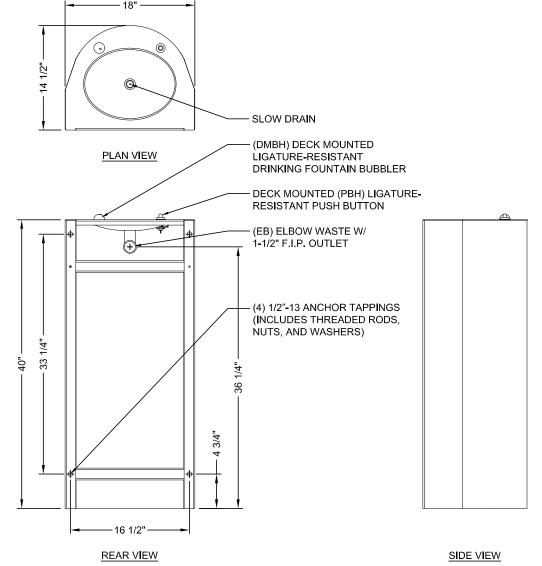
■ WS Wall Sleeve (Requires Accessible Chase)

☐ Other:

Other:

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

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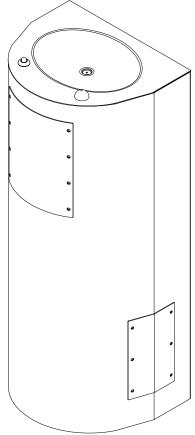
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ASDF-1013-06-FA Ligature-resistant Front Access 18" Wide Drinking Fountain





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

Recommended Specifications

Ligature-resistant, Front Access, 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.

1.) Drinking Fountain Model:

☐ ASDF-1013-06-FA Ligature-resistant, Front Access, 18" Wide Drinking Fountain

2.) Bubbler Selection:

☐ DMBH Deck Mounted Ligature-resistant Bubbler (Standard)

3.) Valve Selection:

☐ PSL1 Single Temp. Pneumatic Non-metering (Standard)

☐ PML1 Single Temp. Pneumatic Metering

☐ E1L1 Single Temp. Electronic*

4.) Push Button Selection:

☐ PBH Ligature-resistant Pneumatic Push Button (Standard)

☐ EPBH Ligature-resistant Electronic Push Button*

☐ PZPB Piezo Push Button*

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

5) Drinking	Fountain	Wasto:
J.,	, Dillikilig	i Ouiitaiii	waste.

RPT Slip Joint, Cast Brass Union 'P'-trap (Removable, 1-1/2") (Standard)

6.) Other Options:

Other:

MT	Wall Template
Other:	

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

18 1/8' 14 1/2" SLOW DRAIN (DMBH) DECK MOUNTED <u>PLAN VIEW</u> LIGATURE-RESISTANT DRINKING FOUNTAIN BUBBLER DECK MOUNTED (PBH) LIGATURE-RESISTANT PUSH BUTTON (RPT) REMOVABLE 1-1/2" F.I.P. CAST 'P' TRAP (6) Ø5/8" MOUNTING HOLES (MOUNTING HARDWARE BY OTHERS) 9 36 1/4" 9 3/4" (3) ACCESS PLATES 3/4 W/ SECURITY SCREWS (FRONT, LEFT, AND RIGHT) 12" REAR VIEW SIDE VIEW

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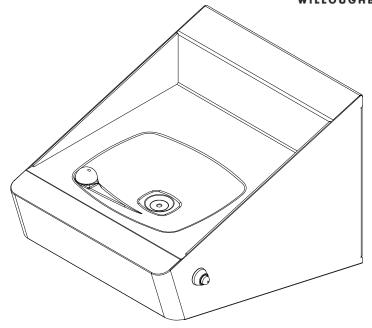
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WBDF-1519-HC Ligature-resistant **Rear Mounted** Stainless Steel **Behavioral Drinking Fountain**





(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

Ligature-resistant Rear Mounted Stainless Steel 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:

- Shallow bowl, 9" x 10-1/2"
- Stainless steel ligature-resistant bubbler
- Slow drain with air vent
- Elbow waste (1-1/2" F.I.P.)
- 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 (2013, 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.

1.) Base Model Number:

☐ WBDF-1519-HC Ligature-resistant Rear Mounted Stainless Steel 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:

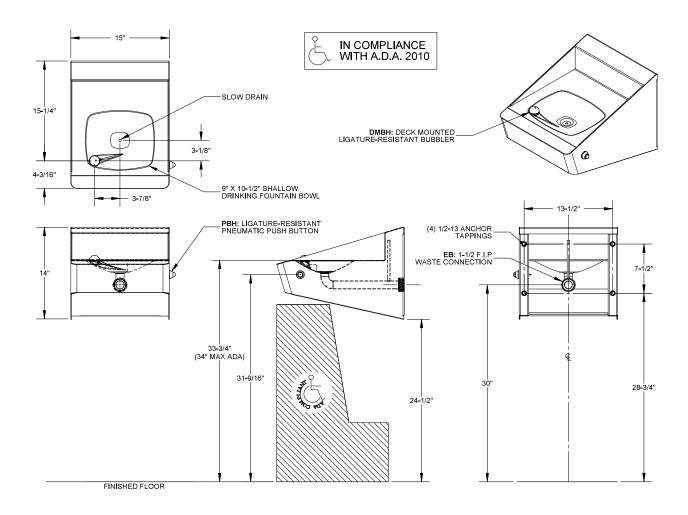
☐ EB Elbow Waste (Standard)

6.) Other Options:

☐ WS Wall Sleeve (Requires Accessible Chase)

☐ Other: _____

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



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WBDF-1519-HC-FA Ligature-resistant Front Access Stainless Steel Behavioral Drinking Fountain





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

Ligature-resistant Front Access Stainless Steel 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:

- Shallow bowl, 9" x 10-1/2"
- Stainless steel ligature-resistant bubble
- 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.

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 (2013, 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.

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1.) Base Model Number:

☐ WBDF-1519-HC-FA
Ligature-resistant Front Access Stainless
Steel 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)

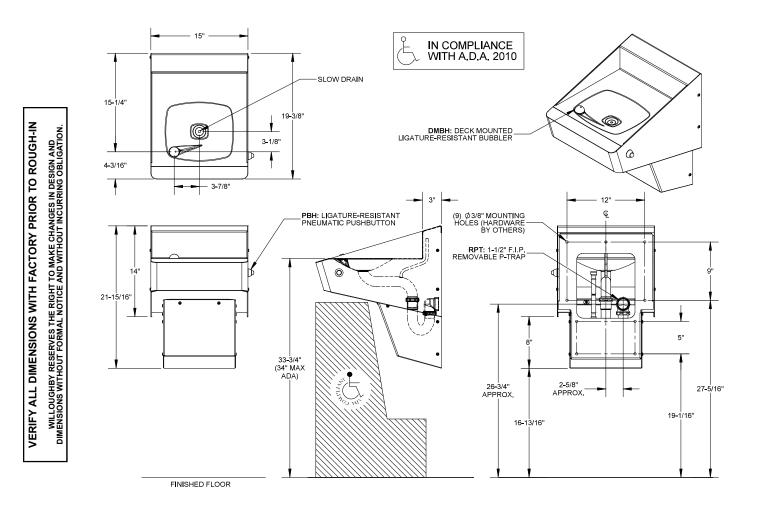
5.) Drinking Fountain Waste:

☐ RPT Removable P-trap (Standard)

6.) Other Options:

□ Other:□ Other:

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



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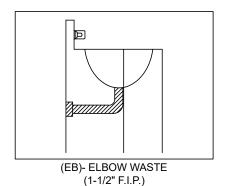
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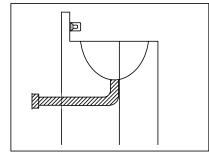
DRINKING FOUNTAIN WASTE

(SIMILAR LAV. WASTE OPTIONS SHOWN FOR REFERENCE)

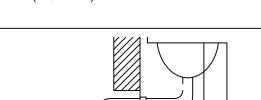


(PT)- INTEGRAL P-TRAP

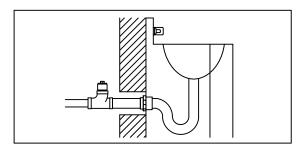
(1-1/2" F.I.P.)



(LWE)- LAVATORY WASTE EXTENSION (1-1/2" F.I.P.)



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

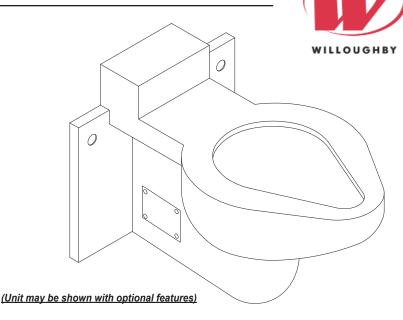


(LW2)- BRASS THRU-WALL EXTENSION P-TRAP (FOR USE W/ (PT) INTEGRAL 'P'-TRAP)



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ETW-1490-CM-RPF Replacement Carrier Mounted Blowout Series Water Closet



Recommended Specifications

Replacement, Carrier Mounted, 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 3" O.D. trap which shall maintain a minimum 2" seal and pass a 2-5/8" 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 by standard 3-bolt blowout carrier (carrier and fasteners by others). Back spud unit shall require chase area for installation and maintenance.

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

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	Х	Υ	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"
	ELGER	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"

MADE IN THE U.S.A.

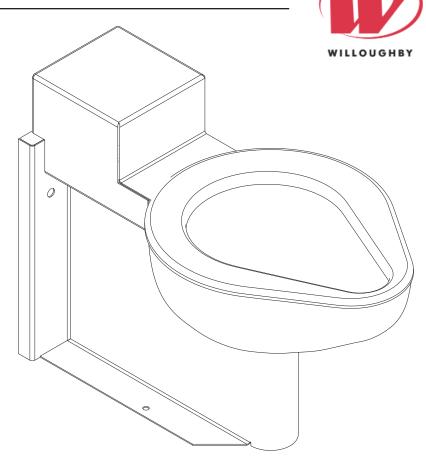
•	odel Number:	Burlander Coming No.	[Other Options CONTINUED:]
☐ ETW-149	9U-CM-RPF	Replacement, Carrier Mounted, Blowout Series Toilet	☐ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
			☐ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
2.) Inlet Lo			AP Flush Valve Access Panel (Allows access to chase-mounted
_	Back Spud Top Spud		flush valve from fixture side) HIS Hinged White Plastic Seat (No Cover, not recommended
			for Maximum Security/Ligature-resistant use)
-	alve GPF (Must Spe	ecify):	DC Decorator Color (Fixture exterior only - White)
☐ 1.28 GP	'F HET F ULF (Standard)		☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* ☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
_	(3" waste tube requ	ired)	☐ HPS High Polish Seat
			☐ TSC Toilet Shipping Cover
4.) Toilet W ☐ GWC		onnection (Standard)	☐ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
_ GWC	Gaskeled Waste Co	officection (Standard)	RTH2 Wall Mounted Recessed Tissue Holder
5.) Other O	ptions:		(Front Mounted, 4-1/2" Depth)
_		Overflow Preventer, Requires:	Other
	. , .	Valve and Accessible Chase erflow Preventer, Requires:	☐ Other
		Valve and Accessible Chase	6.) Electronic Controls* (Must Use Electronic Flush Valve):
		rflow Preventer*, Requires (EFV),	☐ WUFC-4000 ☐ Pneutronic ☐ WMSII
		(WUCC-3010) or (WMSII) control	□ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory
	Hydraulic Flush Valve Electronic Flush Valv	•	or if the Toilet is selected with an (ET4) overflow option)
		re w/ (PZPB) Piezo Push Button (Pick Control)*	*(Req. 110V power through ground fault interrupter (GFCI) receptacle)
☐ FVT I		ion (Back Spud Only)	
	[CONTIN	UED IN NEXT COLUMN:]	
Approve	ed For Manufactu	ıring By:	Date: Company:
Wall Thi	ickness:	Wall Type:	
	4		
Z ,	14"	3 1/2"	3.5 GPF UNIT SHOWN
SH-IN TION.	14"	13 1/2"	3.5 GPF UNIT SHOWN
OUGH-IN A AND IGATION.	*41	13 1/2"	
ROUGH-IN SIGN AND OBLIGATION.	"41	13 1/2"	NOTE: 1.6 GPF UNIT WILL HAVE
TO ROUGH-IN N DESIGN AND RING OBLIGATION.	.41	-7/8"	
OR TO ROUGH-IN ES IN DESIGN AND URRING OBLIGATION.	.41		NOTE: 1.6 GPF UNIT WILL HAVE
PRIOR TO ROUGH-IN INGES IN DESIGN AND INCURRING OBLIGATION.	14"	25 3/4"	NOTE: 1.6 GPF UNIT WILL HAVE
CHANGES IN DESIGN AND OUT INCURRING OBLIGATION.	14"	7/8"	NOTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE
TORY PRIOR TO ROUGH-IN AKE CHANGES IN DESIGN AND WITHOUT INCURRING OBLIGATION.	14"	25 3/4"	NOTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE
ACTORY PRIOR TO ROUGH-IN O MAKE CHANGES IN DESIGN AND NITHOUT INCURRING OBLIGATION.		25 3/4" PLAN VIEW 2.5. FLUSH INLET 2. 3/4" 7. 1-1/2"	NOTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE
H FACTORY PRIOR TO ROUGH-IN HTTO MAKE CHANGES IN DESIGN AND SE AND WITHOUT INCURRING OBLIGATION.	1-1/2" M.I	25 3/4" PLAN VIEW P. FLUSH INLET FOR TOP SPUD 2 3/4" 1-1/2" FOR E	NOTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE
WITH FACTORY PRIOR TO ROUGH-IN RIGHT TO MAKE CHANGES IN DESIGN AND OTICE AND WITHOUT INCURRING OBLIGATION.	1-1/2" M.I 4" x 3" A 14 GA. S/S	PLAN VIEW PLAN VIEW 25 3/4" PLAN VIEW 2 3/4" FOR E CCESS HOLE W/ ACCESS PANEL	NOTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE 11/2" F.I.P. FLUSH INLET, 4" x 7" ENCLOSURE REQUIRED FOR BACK SPUD 3" WASTE CONNECTION W/5 1/4" GASKET FLANGE
IS WITH FACTORY PRIOR TO ROUGH-IN THE RIGHT TO MAKE CHANGES IN DESIGN AND AL NOTICE AND WITHOUT INCURRING OBLIGATION.	1-1/2" M.I 4" x 3" A 14 GA. S/S (SECURE!	PLAN VIEW 25 3/4" PLAN VIEW 2 3/4" FOR TOP SPUD CCESS HOLE W/	NOTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE 11/2" F.I.P. FLUSH INLET, 4" x 7" ENCLOSURE REQUIRED FOR BACK SPUD 3" WASTE CONNECTION W/ 5 1/4" GASKET FLANGE
IONS WITH FACTORY PRIOR TO ROUGH-IN JES THE RIGHT TO MAKE CHANGES IN DESIGN AND SRMAL NOTICE AND WITHOUT INCURRING OBLIGATION.	1-1/2" M.I 4" x 3" A 14 GA. S/S (SECURE!	PLAN VIEW 25 3/4" PLAN VIEW 2 3/4" FOR TOP SPUD CCESS HOLE W/ ACCESS PANEL D W/ (4) VANDAL	NOTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE 11/2" F.I.P. FLUSH INLET, 4" x 7" ENCLOSURE REQUIRED FOR BACK SPUD 3" WASTE CONNECTION W/5 1/4" GASKET FLANGE
ENSIONS WITH FACTORY PRIOR TO ROUGH-IN SERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND TFORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.	1-1/2" M.I 4" x 3" A 14 GA. S/S (SECURE!	PLAN VIEW 25 3/4" PLAN VIEW 2 3/4" FOR TOP SPUD CCESS HOLE W/ ACCESS PANEL D W/ (4) VANDAL	NOTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE 11/2" F.I.P. FLUSH INLET, 4" x 7" ENCLOSURE REQUIRED FOR BACK SPUD 3" WASTE CONNECTION W/ 5 1/4" GASKET FLANGE
IMENSIONS WITH FACTORY PRIOR TO ROUGH-IN RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND HOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.	1-1/2" M.I 4" x 3" A 14 GA. S/S (SECURE!	PLAN VIEW 25 3/4" PLAN VIEW 2 3/4" FOR TOP SPUD CCESS HOLE W/ ACCESS PANEL D W/ (4) VANDAL	NOTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE 1 1/2" F.I.P. FLUSH INLET, 4" x 7" ENCLOSURE REQUIRED FOR BACK SPUD 3" WASTE CONNECTION W/5 1/4" GASKET FLANGE
L DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN HBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.	1-1/2" M.I 4" x 3" A 14 GA. S/S (SECURE!	PLAN VIEW 25 3/4" PLAN VIEW 2 3/4" FOR TOP SPUD CCESS HOLE W/ ACCESS PANEL D W/ (4) VANDAL	NOTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE 11/2" F.I.P. FLUSH INLET, 4" x 7" ENCLOSURE REQUIRED FOR BACK SPUD 3" WASTE CONNECTION W/5 1/4" GASKET FLANGE
ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN DUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND JAS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.	1-1/2" M.I 4" x 3" A 14 GA. S/S (SECURE!	PLAN VIEW 25 3/4" PLAN VIEW 2 3/4" FOR TOP SPUD CCESS HOLE W/ ACCESS PANEL D W/ (4) VANDAL	NOTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE 11/2" F.I.P. FLUSH INLET, 4" x 7" ENCLOSURE REQUIRED FOR BACK SPUD 3" WASTE CONNECTION W/ 5 1/4" GASKET FLANGE
IFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN IILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND NSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.	1-1/2" M.I 4" x 3" A 14 GA. S/S (SECURE!	PLAN VIEW 25 3/4" PLAN VIEW 2 3/4" FOR TOP SPUD CCESS HOLE W/ ACCESS PANEL D W/ (4) VANDAL	NOTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE 11/2" F.I.P. FLUSH INLET, 4" x 7" ENCLOSURE REQUIRED FOR BACK SPUD 3" WASTE CONNECTION W/5 1/4" GASKET FLANGE
ERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND IMMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.	1-1/2" M.I 4" x 3" A 14 GA. S/S (SECURE!	PLAN VIEW 25 3/4" PLAN VIEW 2 3/4" FOR TOP SPUD CCESS HOLE W/ ACCESS PANEL D W/ (4) VANDAL	NOTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE 1 1/2" F.I.P. FLUSH INLET, 4" x 7" ENCLOSURE REQUIRED FOR BACK SPUD 3" WASTE CONNECTION W/5 1/4" GASKET FLANGE
l~ Z∝l	1-1/2" M.I 4" x 3" A 14 GA. S/S (SECURE!	PLAN VIEW PLAN VIEW 25 3/4" PLAN VIEW 2 3/4" FOR E CCESS HOLE W/ ACCESS PANEL D W/ (4) VANDAL STANT SCREWS)	NOTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE 11/2" F.I.P. FLUSH INLET, 4" x 7" ENCLOSURE REQUIRED FOR BACK SPUD 3" WASTE CONNECTION W/5 1/4" GASKET FLANGE
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.	1-1/2" M.I 4" x 3" A 14 GA. S/S (SECURE!	P. FLUSH INLET FOR TOP SPUD CCESS HOLE W/ ACCESS PANEL DW (4) VANDAL STANT SCREWS) (3) Ø7/8" THRU-CARRIER MO	NOTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE 11/2" F.I.P. FLUSH INLET, 4" x 7" ENCLOSURE REQUIRED FOR BACK SPUD 3" WASTE CONNECTION W/5 1/4" GASKET FLANGE

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ETW-1490-FM-RPF Replacement Floor Mounted Blowout Series Water Closet



Recommended Specifications

(Unit may be shown with optional features)

Replacement, Floor Mounted, 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 3" O.D. trap which shall maintain a minimum 2" seal and pass a 2-5/8" 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: For 1.6 gallon flush, unit will pass a 2-1/8" ball.

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



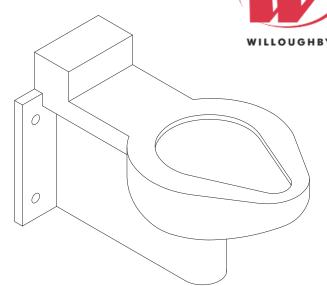
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1.) Base l	Model Number:	[Other	Options CONTINUED:]
☐ ETW-1	490-FM-RPF Replacement, Floor M	ounted,	
	Blowout Series Toilet	☐ ASF	VC Flush Valve Cover (Ligature-resistant, Top Spud Only)
		☐ ASF	VCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
2.) Inlet L	ocation:	☐ AP	Flush Valve Access Panel (Allows access to chase mounted
☐ BS	Back Spud		flush valve from fixture side)
TS	Top Spud	☐ HS	Hinged White Plastic Seat (No Cover, not recommended
			for Maximum Security/Ligature-resistant use)
3.) Flush	Valve GPF (Must Specify):	☐ DC	Decorator Color (Fixture exterior only - White)
1.28 G	PF HET	☐ TF2	4H Hard-wired Transformer, 110VAC to 24VAC*
☐ 1.6 GF	PF ULF (Standard)	☐ TF2	4P Plug-in Transformer, 110VAC to 24VAC*
☐ 3.5 GF	PF (3" waste tube required)		
		☐ HPS	5
4.) Toilet	Waste:	TSC	11 3 -
☐ GWC	Gasketed Waste Connection (Standard)	☐ RTH	11 Wall Mounted Recessed Tissue Holder
			(Rear Mounted, Requires Accessible Chase)
5.) Other		☐ RTI	
□ T4	Manual Reset Toilet Overflow Preventer, Req		(Front Mounted, 4-1/2" Depth)
	(FV) Hydraulic Flush Valve and Accessible C	_	
T4A	Auto Reset Toilet Overflow Preventer, Requir	-	er
_	(FV) Hydraulic Flush Valve and Accessible C		
☐ ET4	Electronic Toilet Overflow Preventer*, Require	, ,,	etronic Controls* (Must Use Electronic Flush Valve):
·	Accessible Chase, & (WUCC-3010) or (WMS	, —	FC-4000 Pneutronic WMSII
☐ FV	Hydraulic Flush Valve (Includes Actuator)	☐ WU	CC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory
☐ EFV	Electronic Flush Valve (Pick Control)*	Dotton (Dialo Co. 1 194	or if the Toilet is selected with an (ET4) overflow option)
	Electronic Flush Valve w/ (PZPB) Piezo Push	,	4401/
☐ FVT	Flush Valve Connection (Back Spud Only) [CONTINUED IN NEXT COLUMN	`	. 110V power through ground fault interrupter (GFCI) receptacle)
	CONTINUED IN NEXT COLUMN	<u></u>	
Approv	/ed For Manufacturing By:	Date	e: Company:
	hickness:		
- VValli I		Train Type:	
		— 03/9" FLOOR ANOL	OR HOLES
		Ø3/8" FLOOR ANCH FASTENERS BY OT	
_		/	3.5 GPF UNIT SHOWN
<u>₹</u> 8	<u></u>		
TO ROUGH-IN DESIGN AND ING OBLIGATION.		/	NOTE: 1.6 GPF UNIT WILL HAVE
			2-1/2" O.D. WASTE TUBE
교 등 등 등			
		 1 1/8"	
1 7 Z		- C →	
	25 3/4	ļ"	
A NE	i '	·	
⊁ 32	PLAN V		
[5 祚		1-1/	2" F.I.P. FLUSH INLET —
5 ₹≥		I I REOLIII	4" x 7" ENCLOSURE RED FOR BACK SPUD
A DA		5"	
도 뚫		3"	WASTE CONNECTION 4
M SEC			1/2" GASKET FLANGE
S H		1 (7.1	
NO TSW	1	1/2" x	1" SLOTS IN FLANGE,
<u>S</u>		Ø9/16" F	OLES IN FRONT SIDE
			CENTERED ON SLOTS
∑		/ / `~	(THROUGH HOLES,
19. 章	15-	/ / \ HAI	RDWARE BY OTHERS)
		/	
12 26	\ \	-/	
¥ KN	 		
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRI			<u> </u>
>			3" 3"
	1		
	SIDE V	<u>EW</u>	REAR VIEW

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ETWS-1490-CM-RPF Replacement Carrier Mounted Siphon Jet Series Water Closet



Recommended Specifications

(Unit may be shown with optional features)

Replacement, Carrier Mounted, 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 3" O.D. trap which shall maintain a minimum 2" seal and pass a 2-5/8" 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: For 1.6 gallon flush, unit will pass a 2-1/8" ball.

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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#	X	Υ	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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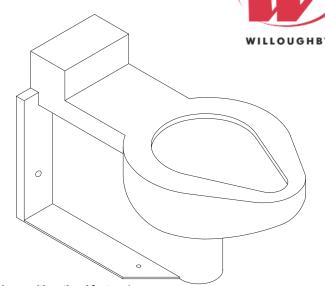
S7-5

1.) Base I	Model Number:		Other Options CONTINU	UED:]
☐ ETWS	-1490-CM-RPF	Replacement, Carrier Mounted,		
		Siphon Jet Series Toilet		sh Valve Cover (Ligature-resistant, Top Spud Only)
2 \ Imlat I	a a a ti a m .		_ •	ature-resistant ADA Flush Valve Cover (Top Spud Only)
2.) Inlet L	Back Spud		flush valve from	ccess Panel (Allows access to chase-mounted
☐ TS	Top Spud			Plastic Seat (No Cover, not recommended
	.op opuu		_	Security/Ligature-resistant use)
3.) Flush	Valve GPF (Must S	pecify):		or (Fixture exterior only - White)
1.28 G	PF HET		☐ TF24H Hard-wired T	Fransformer, 110VAC to 24VAC*
_	PF ULF (Standard)		_	sformer, 110VAC to 24VAC*
☐ 3.5 GF	PF (3" waste tube red	quired)	HPS High Polish Se	
4 \ Taile4	Mosts		☐ TSC Toilet Shipping	
4.) Toilet GWC		Connection (Standard)	_	all Mounted Recessed Tissue Holder ear Mounted, Requires Accessible Chase)
_ GWC	Gaskeleu Wasie	Connection (Standard)	,	all Mounted Recessed Tissue Holder
5.) Other	Options:		_	ont Mounted, 4-1/2" Depth)
☐ T4	•	et Overflow Preventer, Requires:	Other	
	(FV) Hydraulic Flus	sh Valve and Accessible Chase	Other	
☐ T4A	Auto Reset Toilet C	Overflow Preventer, Requires:		
		sh Valve and Accessible Chase	•	(Must Use Electronic Flush Valve):
☐ ET4		verflow Preventer*, Requires (EFV),		Pneutronic WMSII
		& (WUCC-3010) or (WMSII) control		VUCC-3010 Control if pairing a Toilet with a Lavatory
☐ FV ☐ EFV	Electronic Flush Va	lve (Includes Actuator)	OF I	if the Toilet is selected with an (ET4) overflow option)
☐ EFVP		alve w/ (PZPB) Piezo Push Button (Pick Control)*	*(Reg. 110V power throu	ugh ground fault interrupter (GFCI) receptacle)
FVT		ection (Back Spud Only)	(rtoq. rrov power anec	agn ground laak monaptor (or on recopiacie)
_		INUED IN NEXT COLUMN:]		
Approx	and Ear Manufac	turing Dv	Data	Company
1		turing By:		Company:
vvali i	nickness:	Wall Type:		
	1			
			1	
	,		†	
- .	# <u>*</u>		_ "7"	3.5 GPF UNIT SHOWN
TO ROUGH-IN DESIGN AND ING OBLIGATION.	ĺ	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1 5	
TO ROUGH-II DESIGN AND ING OBLIGATION			<u>*</u>	NOTE: 1.6 GPF UNIT WILL HAVE
19 XI			<u> </u>	2-1/2" O.D. WASTE TUBE
OR Sof	l '		7/8"	
			1/0	
OR ISI		27 3/4"		
K SS		PLAN VIEW		
7 X			1-1/2" F.I.P. FLUSH INLET, - 4" x 7" ENCLOSURE	
FACTORY PRIOR TO MAKE CHANGES IN			REQUIRED FOR BACK SPUD	
S S		5"	(4) 7/8" THRU MOUNTING HOLES -	
¥ ₽¥	* B#	ACK SPUD: REQUIRES FLUSH INLET COVER23	FOR CARRIER MOUNTING (CARRIER AND MOUNTING	7"
돈 됐			HARDWARE BY OTHERS)	
N SE		1-1/2" M.P.T. FLUSH INLET TOP SPUD	3" WASTE CONNECTION -	4"
SH			W/ 5-1/4" GASKET FLANGE	
P.ES.	l †	\ \ <u>\</u>	1	
NS SE				
ME SES		// /-\ \	1/2" —	- "Z" - 1/2" - 1/2" -
			12 1	127
L Be	Ì			
		\\/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
			<u>'</u>	<u> </u>
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURF			EINICHED ELOOP	<u> </u>
			FINISHED FLOOR	4 1/2" 4 1/2"
	J	SIDE VIEW		REAR VIEW

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ETWS-1490-FM-RPF Replacement Floor Mounted Siphon Jet Series Water Closet



Recommended Specifications

(Unit may be shown with optional features)

Replacement, Floor Mounted, 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 3" O.D. trap which shall maintain a minimum 2" seal and pass a 2-5/8" 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: For 1.6 gallon flush, unit will pass a 2-1/8" ball.

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#	Α	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	.AMPS
	111-0505E	4-1/2"		TOE CL	AMPS
	111-0515	4-1/2"	13"	TOE CL	.AMPS
	111-0515E	4-1/2"		TOE CL	AMPS
SUPER SECUR	A-104	4-1/4"	14-1/2"	18"	6-3/4"

MADE IN THE U.S.A.

1.) Base Model Number: ETWS-1490-FM-RPF Replacement, Floor Mounted,	[Other Options CONTINUED:]
Siphon Jet Series Toilet 2.) Inlet Location: BS Back Spud TS Top Spud	 □ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only) □ ASFVCADA 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
3.) Flush Valve GPF (Must Specify): 1.28 GPF HET 1.6 GPF ULF (Standard) 3.5 GPF (3" waste tube required)	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
4.) Toilet Waste: GWC Gasketed Waste Connection (Standard)	 □ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase) □ RTH2 Wall Mounted Recessed Tissue Holder
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 E14 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control FV Hydraulic Flush Valve (Includes Actuator) EFV Electronic Flush Valve (Pick Control)* EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)* FVT Flush Valve Connection (Back Spud Only) [CONTINUED IN NEXT COLUMN:]	(Front Mounted, 4-1/2" Depth) 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)
Wall Thickness: Wall Type:	Date: Company:
AKE CHANGES IN MITHOUT INCURING THE CHANGES IN THOUS IN THE CHANGES IN THE CHANGE	-3/8" FLOOR MOUNTING HOLES, MOUNTING HARDWARE BY OTHERS
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR I WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRII A 14" A	1-1/2" F.I.P. FLUSH INLET, BACK SPUD 3" O.D. WASTE CONNECTION W/ 7-1/2" GASKET FLANGE Ø5/8" HOLES THRU FRONT, MOUNTING HARDWARE BY OTHERS
SIDE VIEW	REAR VIEW

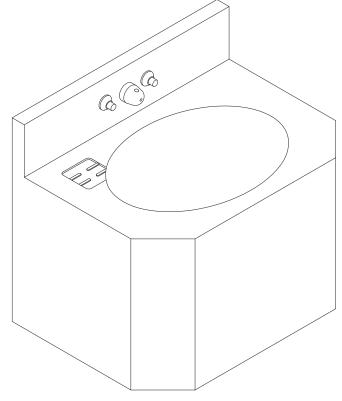
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HS-1013-96-RPF Replacement 18" Wide Lavatory



(Unit may be shown with optional features)

Recommended Specifications

Replacement 18" Wide 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 filler/bubbler, fast drain with air vent, elbow waste (1-1/2" F.I.P.) and self-draining soap dish.

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

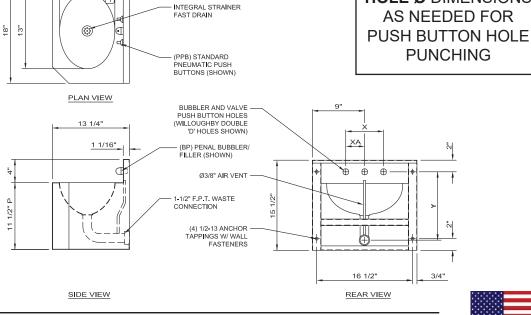
Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

.) Base M	lodel Number:		6.) Push B	utton Hole Punching:
HS-101	3-96-RPF	Replacement 18" Wide Lavatory		Lavatory Valve, please specify push button zes and locations on fixture backsplash:
.) Bubble	r or Spout Selectio	n:		D:
BP	Penal Bubbler/Fille		O.	•
BC	Code Bubbler/Fille		7.) Lavator	ry Waste:
BPH	Ligature-resistant I		□ EB	Elbow Waste (Standard)
FL	Lavatory Filler		D PT	Integral 'P'-Trap
FLH	Ligature-resistant I	avatory Filler	LWE	Lavatory Waste Extension
	Ligataro rociotarii i		SLOW	•
Lavator	ry Valve Selection:		☐ LW1	Thru-Wall Extension, 'P'-Trap
NV	•	ole Punching if needed)	LW2	Thru-Wall Extension and Clean-Out
PSL1	,	matic Non-metering	_	(Use w/"PT" Option)
PSL2	Dual Temp. Pneum	•		(011 1 0 1111)
PML1	Single Temp. Pneu	•	8.) Options	s:
PML2	Dual Temp. Pneum	•	☐ MT	Wall Template
E1L1	•	ronic (pick control)*	☐ TB1	Single Toothbrush Holder
E1L2	Dual Temp. Electro	(1)	_	☐ Right ☐ Left
	ifold Options:	(☐ TB2	Dual Toothbrush Holder
	ic or Electronic Only	•		☐ Right ☐ Left
	□ MA3 □ MA4		☐ TH1	Single Towel Hook
_			_	☐ Right ☐ Left
) Lavator	ry Valve Actuation:		☐ TH2	Dual Towel Hook
PPB	Pneumatic Push B	uttons	_	☐ Right ☐ Left
PBH	Ligature-resistant I	Push Buttons	☐ ISH	Integral Shelf
EPB	Electronic Push Bu		☐ VG	Ventilation Grille (Specify Location and Free Area)
EPBH	Ligature-resistant l	Electronic Push Buttons*	☐ TF24H	* * *
PZPB	Piezo Push Button		☐ TF24P	,
			_	
Electro	nic Controls* (Mus	Use Electronic Push Button):		
WUCC-	•	•		0V power through ground fault interrupter (GFCI) receptacle
	- · · · -	an be used to pair a Sink with a Toilet)	(-4	, 5 5
,		F		

Approved For Manufacturing By Wall Thickness:	: Wall Type:	Date:	Company:
<u>1 1/4</u>	13 1/4" 9 1/2" SELF-DRAININ SOAP DISH	ıg	SPECIEVY YA V &

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.

S7-10



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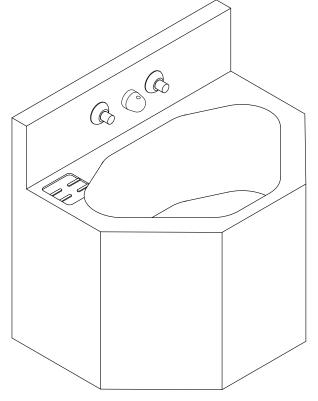


SPECIFY X, XA, Y, &

HOLE Ø DIMENSIONS



HS-1013-46-15-RPF Replacement 15" Wide Lavatory



(Unit may be shown with optional features)

Recommended Specifications

Replacement 15" Wide 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.

1.) Base Me	odel Number:	6.) Push Button Hole Punching:
☐ HS-1013	3-46-15-RPF Replacement 15" Wide Lavatory	If Less-Lavatory Valve, please specify push button
		hole sizes and locations on fixture backsplash:
2.) Bubbler	r or Spout Selection:	SP:
■ BP	Penal Bubbler/Filler	
□ BC	Code Bubbler/Filler	7.) Lavatory Waste:
■ BPH	Ligature-resistant Bubbler/Filler	☐ EB Elbow Waste (Standard)
☐ FL	Lavatory Filler	☐ PT Integral 'P'-Trap
☐ FLH	Ligature-resistant Lavatory Filler	☐ LWE Lavatory Waste Extension
		☐ SLOW Slow Drain
3.) Lavator	y Valve Selection:	LW1 Thru-Wall Extension, 'P'-Trap
■ NV	No Valve (Select Hole Punching if needed)	☐ LW2 Thru-Wall Extension and Clean-Out
☐ PSL1	Single Temp. Pneumatic Non-metering	(Use w/"PT" Option)
☐ PSL2	Dual Temp. Pneumatic Non-metering	
PML1	Single Temp. Pneumatic Metering	8.) Options:
PML2	Dual Temp. Pneumatic Metering	☐ MT Wall Template
E1L1	Single Temp. Electronic (pick control)*	☐ TB1 Single Toothbrush Holder
■ E1L2	Dual Temp. Electronic (pick control)*	☐ Right ☐ Left
Valve Mani	ifold Options:	☐ TB2 Dual Toothbrush Holder
Pneumati	ic or Electronic Only:	☐ Right ☐ Left
☐ MA2	☐ MA3 ☐ MA4	☐ TH1 Single Towel Hook
		☐ Right ☐ Left
•	y Valve Actuation:	☐ TH2 Dual Towel Hook
□ PPB	Pneumatic Push Buttons	☐ Right ☐ Left
□ PBH	Ligature-resistant Push Buttons	☐ ISH Integral Shelf
EPB	Electronic Push Buttons*	☐ VG Ventilation Grille (Specify Location and Free Area)
EPBH	Ligature-resistant Electronic Push Buttons*	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC*
PZPB	Piezo Push Buttons*	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
		☐ Other:
•	nic Controls* (Must Use Electronic Push Button):	☐ Other:
☐ WUCC-	<u> </u>	*(Req. 110V power through ground fault interrupter (GFCI) receptacle)
(The WU	JCC-3010 Control can be used to pair a Sink with a Toilet)	

Approved For Manufacturing By: Date: _ Company: Wall Thickness: _ Wall Type: -11 1/2" -SPECIFY X, XA, Y, & SELF-DRAINING SOAP DISH 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. **HOLE Ø DIMENSIONS** AS NEEDED FOR FILLER/BUBBLER 15 **PUSH BUTTON HOLE** INTEGRAL STRAINER **PUNCHING** FAST DRAIN PLAN VIEW BUBBLER AND PUSH BUTTON MOUNTING HOLES Ø3/8" VENT TUBE -• • • 1-1/2" F.I.P. WASTE CONNECTION (4) 1/2"-13 ANCHOR TAPPINGS 1 3/4"

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REAR VIEW

SIDE VIEW



W

ECF-1546-150-RPF
Floor Mounted
Floor Outlet
Replacement Combination
For Super Secur A-150



Recommended Specifications

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 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 3" O.D. trap which shall maintain a minimum 2" seal and pass a 2-5/8" 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.

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.

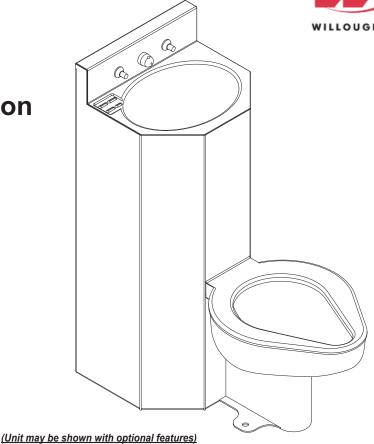
Note: For 1.6 gallon flush, unit will pass a 2-1/8" ball.

* Check applicable plumbing code for acceptability.

1.) Base Model Nu	umber:	7.) Lavato	ry Valve Actuation:	11.) Opti	ons
•	RPF Floor Mounted, Floor Outlet,	☐ PPB	Pneumatic Push Buttons	☐ T4	Manual Reset Toilet Overflow Preventer,
	Replacement Combination for Super Secur A-150	☐ PBH☐ EPB	Ligature-resistant Push Buttons Electronic Push Buttons*	☐ T4A	Req. (FV) Flush Valve and Accessible Chase Auto Reset Toilet Overflow Preventer,
		☐ EPBH	Ligature-resistant Electronic		Req. (FV) Flush Valve and Accessible Chase
2.) Toilet Orientati			Push Buttons*	☐ ET4	Electronic Toilet Overflow Preventer,
C Center	red	☐ PZPB	Piezo Push Buttons*	☐ FV	Requires (EFV) & (WUCC-3010) or (WMSII)* Hydraulic Flush Valve (Includes Push Button)
3.) Fixture Mounti	ng:	8.) Electro	onic Controls*	☐ EFV	Electronic Flush Valve (Pick Control)*
ON On-Flo	oor	-	e Electronic Lavatory & Flush Valves)		, , , , , ,
4.) Bubbler Select	tion:	☐ WUCC.	-3010 Pneutronic WMSII	☐ TFE☐ FVT	Toilet Flush Extension Flush Valve Connection
•	Bubbler/Filler (Standard)	9.) Lavato	ry Waste:	☐ HS	Hinged White Plastic Seat (No Cover, not
	ubbler/Filler (w/ Mouth Guard)	☐ EB	Elbow Waste (1-1/2" F.I.P.)		recommended for Maximum Security/Ligature-
_ •	e-resistant Bubbler/Filler .av. Filler	☐ PT	Integral 'P'-Trap (1-1/2" F.I.P.) Lavatory Waste Extension	☐ RTH	resistant use) Recessed Tissue Holder
_	e-resistant Lav. Filler	OV	Lavatory Overflow	_	LLFCRFR
5) Floor b Volton Of	DEIO (85	_	Combined Waste w/o Clean-out	TB1	
1.28 GPF HET	PF'S (Must Specify):	_	Combined Waste w/ Clean-out (Standar Slow Drain	a) TB2	☐ L ☐ R Dual Toothbrush Holder
1.6 GPF ULF (S				_	L DR
☐ 3.5 GPF (3" wa	ste tube required)	10.) Toilet		☐ TH1_	
6.) Lavatory Valve	Selection:	☐ GWC	Gasketed Waste Connection (Standard)	☐ TH2	□ L □ LF □ C □ RF □ R Dual Towel Hook
☐ NV No Val				<u> </u>	
	Temp. Pneumatic Non-metering			D DC	Decorator Color (Fixture exterior only - White)
_	emp. Pneumatic Non-metering Temp. Pneumatic Metering			☐ TF24I	H Hard-wired Transformer, 110VAC to 24VAC* P Plug-in Transformer, 110VAC to 24VAC*
	emp. Pneumatic Metering			☐ HPS	High Polish Seat
_	Temp. Electronic (Pick Control)*			☐ VG	Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area)
☐ E1L2 Dual T Valve Manifold Op	emp. Electronic (Pick Control)*			☐ SK	Ligature-resistant Toilet Skirt, (ON) On-Floor Only
Pneumatic or Ele				☐ TG	12 Gauge Cabinet
☐ MA2 ☐ MA	3 🔲 MA4			☐ TSC	Toilet Shipping Cover
				Other	
				_	110V power through ground fault interrupter
				_	110V power through ground fault interrupter (GFCI) receptacle)
Approved For	· Manufacturing By:		Data:	*(Req.	(GFCI) receptacle)
	Manufacturing By:		Date:	*(Req.	
	Manufacturing By:ss:		Date: Гуре:	*(Req.	(GFCI) receptacle)
		Wall 1	Гуре:	*(Req.	(GFCI) receptacle) Company:
Wall Thicknes		Wall 1	Type:	*(Req.	(GFCI) receptacle)
Wall Thicknes		Wall 1	Type:	*(Req.	(GFCI) receptacle) Company:
Wall Thickness		Wall 1	SELF DRAINING SOAP DISH LAVATORY	*(Req.	(GFCI) receptacle) Company: 3.5 GPF UNIT SHOWN
Wall Thickness	55:	Wall 1	Type:	*(Req.	(GFCI) receptacle) Company: 3.5 GPF UNIT SHOWN NOTE: 1.6 GPF UNIT WILL HAVE
Wall Thickness	14 1/4" 6 3/4"	Wall 1	SELF DRAINING SOAP DISH LAVATORY FAST DRAIN 6" 15" 3" O.D. WASTE CONN (3.5 GPF) W/ 5-1/4" G/	*(Req.	(GFCI) receptacle) Company: 3.5 GPF UNIT SHOWN NOTE: 1.6 GPF UNIT WILL HAVE
Wall Thickness	55:		SELF DRAINING SOAP DISH LAVATORY FAST DRAIN 6" 15" 3" O.D. WASTE CONN	*(Req.	(GFCI) receptacle) Company: 3.5 GPF UNIT SHOWN NOTE: 1.6 GPF UNIT WILL HAVE
Wall Thickness	14 1/4" 6 3/4" Ø5/8" FLOOR		SELF DRAINING SOAP DISH LAVATORY FAST DRAIN 6" 15" 3" O.D. WASTE CONN (3.5 GPF) W/ 5-1/4" G/ Ø3/8" MOUNTING HO	*(Req.	(GFCI) receptacle) Company: 3.5 GPF UNIT SHOWN NOTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE
Wall Thickness	14 1/4" 6 3/4" Ø5/8" FLOOR		SELF DRAINING SOAP DISH LAVATORY FAST DRAIN (3.5 GPF) W/ 5-1/4" G/ Ø3/8" MOUNTING HO	*(Req.	(GFCI) receptacle) Company: 3.5 GPF UNIT SHOWN NOTE: 1.6 GPF UNIT WILL HAVE
Wall Thickness	14 1/4" 6 3/4" Ø5/8" FLOOR MOUNTING HOLES		SELF DRAINING SOAP DISH LAVATORY FAST DRAIN (3.5 GPF) W/ 5-1/4" G/ Ø3/8" MOUNTING HO	*(Req.	GFCI) receptacle) Company:
Wall Thickness	14 1/4" 6 3/4" Ø5/8" FLOOR		SELF DRAINING SOAP DISH LAVATORY FAST DRAIN 3" O.D. WASTE CONN (3.5 GPF) W/ 5-1/4" G/ Ø3/8" MOUNTING HO PILLER/BUBBLER - OPTIONAL 1/2"-13-	*(Req.	(GFCI) receptacle) Company: 3.5 GPF UNIT SHOWN NOTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE
Wall Thickness	14 1/4" 6 3/4" Ø5/8" FLOOR MOUNTING HOLES		SELF DRAINING SOAP DISH LAVATORY FAST DRAIN (3.5 GPF) W/ 5-1/4" G/ Ø3/8" MOUNTING HO SELF DRAINING SOAP DISH LAVATORY FAST DRAIN (3.5 GPF) W/ 5-1/4" G/ Ø3/8" MOUNTING HO FILLER/BUBBLER-	*(Req.	GFCI) receptacle) Company:
Wall Thickness	14 1/4" 6 3/4" Ø5/8" FLOOR MOUNTING HOLES		SELF DRAINING SOAP DISH LAVATORY FAST DRAIN 3" O.D. WASTE CONN (3.5 GPF) W/ 5-1/4" G/ Ø3/8" MOUNTING HO PILLER/BUBBLER - OPTIONAL 1/2"-13 MOUNTING TAPPINGS LAVATORY VALVE PUSH-	*(Req.	GFCI) receptacle) Company:
Wall Thickness	14 1/4" 6 3/4" Ø5/8" FLOOR MOUNTING HOLES		SELF DRAINING SOAP DISH LAVATORY FAST DRAIN (3.5 GPF) W: 5-1/4" G/ Ø3/8" MOUNTING HO! 9/16" FILLER/BUBBLER- OPTIONAL 1/2"-13- MOUNTING TAPPINGS	*(Req.	GFCI) receptacle) Company:
Wall Thickness	MOUNTING HOLES		SELF DRAINING SOAP DISH LAVATORY FAST DRAIN 3" O.D. WASTE CONN (3.5 GPF) W/ 5-1/4" G/ Ø3/8" MOUNTING HO PILLER/BUBBLER - OPTIONAL 1/2"-13 MOUNTING TAPPINGS LAVATORY VALVE PUSH-	*(Req.	Company:
Wall Thickness	MOUNTING HOLES		SELF DRAINING SOAP DISH LAVATORY FAST DRAIN 3" O.D. WASTE CONN (3.5 GPF) W: 5-1/4" G/ Ø3/8" MOUNTING HO! 9/16" FILLER/BUBBLER- OPTIONAL 1/2"-13- MOUNTING TAPPINGS LAVATORY VALVE PUSH- BUTTON HOLES (DOUBLE 'D') 1-1/2" COMBINED-	*(Req.	GFCI) receptacle) Company: 3.5 GPF UNIT SHOWN NOTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE
Wall Thickness	MOUNTING HOLES		SELF DRAINING SOAP DISH LAVATORY FAST DRAIN 3" O.D. WASTE CONN (3.5 GPF) W/ 5-1/4" G/ Ø3/8" MOUNTING HO PILLER/BUBBLER- OPTIONAL 1/2"-13- MOUNTING TAPPINGS LAVATORY VALVE PUSH- BUTTON HOLES (DOUBLE 'D') 1-1/2" COMBINED- WASTE/CLEAN-OUT W/ P.V.C. PLUG 1-1/2" F.I.P. FLUSH-	*(Req.	Company:
Wall Thickness	MOUNTING HOLES		SELF DRAINING SOAP DISH LAVATORY FAST DRAIN 3" O.D. WASTE CONN (3.5 GPF) W/ 5-1/4" G/ Ø3/8" MOUNTING HO PILLER/BUBBLER- OPTIONAL 1/2"-13 MOUNTING TAPPINGS LAVATORY VALVE PUSH- BUTTON HOLES (DOUBLE 'D') 1-1/2" COMBINED- WASTE/CLEAN-OUT W P.V.C. PLUG 1-1/2" F.I.P. FLUSH- VALVE CONNECTION	*(Req.	Company:
Wall Thickness	Ø5/8" FLOOR MOUNTING HOLES		SELF DRAINING SOAP DISH LAVATORY FAST DRAIN 3" O.D. WASTE CONN (3.5 GPF) W/ 5-1/4" G/ Ø3/8" MOUNTING HO PILLER/BUBBLER- OPTIONAL 1/2"-13- MOUNTING TAPPINGS LAVATORY VALVE PUSH- BUTTON HOLES (DOUBLE 'D') 1-1/2" COMBINED- WASTE/CLEAN-OUT W/ P.V.C. PLUG 1-1/2" F.I.P. FLUSH-	*(Req.	GFCI) receptacle) Company:
Wall Thicknes	Ø5/8" FLOOR MOUNTING HOLES		SELF DRAINING SOAP DISH LAVATORY FAST DRAIN 6" 15" 3" O.D. WASTE CONN (3.5 GPF) W; 5-1/4" G/ Ø3/8" MOUNTING HO PILLER/BUBBLER- OPTIONAL 1/2"-13- MOUNTING TAPPINGS LAVATORY VALVE PUSH- BUTTON HOLES (DOUBLE 'D') 1-1/2" COMBINED- WASTE/CLEAN-OUT W/ P.V.C. PLUG 1-1/2" F.I.P. FLUSH- VALVE CONNECTION 6" x 9" ACCESS COVER,	*(Req.	GFCI) receptacle) Company:

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ECW-1546-150-RPF Floor Mounted Wall Outlet Replacement Combination For Super Secur A-150



Recommended Specifications

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 3" O.D. trap which shall maintain a minimum 2" seal and pass a 2-5/8" 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.

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.

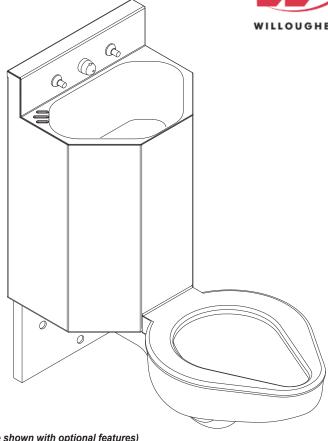
Note: For 1.6 gallon flush, unit will pass a 2-1/8" ball.

* Check applicable plumbing code for acceptability.

1.) Base Model Number:	7.) Lavato	ory Valve Actuation:	12.) Optio	ons
☐ ECW-1546-150-RPF Floor Mounted, Wall Outle	t, 🔲 PPB	Pneumatic Push Buttons	☐ T4	Manual Reset Toilet Overflow Preventer, Req.(FV)
Replacement Combinatior for Super Secur A-150	_	Ligature-resistant Push Buttons	□ T4A□ ET4	Auto Reset Toilet Overflow Preventer, Req. (FV)
for Super Secur A-150	☐ EPB	Electronic Push Buttons* Ligature-resistant Electronic Push Buttons*		Electronic Toilet Overflow Preventer, Requires (EFV) & (WUCC-3010) or (WMSII)*
2.) Toilet Orientation:	☐ PZPB	Piezo Push Buttons*	☐ FV	Hydraulic Flush Valve (Includes Push Button)
☐ C Centered	_		☐ EFV	Electronic Flush Valve (Pick Control)*
	8.) Electro	onic Controls*	☐ EFVP	Electronic Flush Valve w/ (PZPB) (Pick Control)*
3.) Fixture Mounting:	-	se Electronic Lavatory & Flush Valves):	□ TFE	Toilet Flush Extension
☐ ON On-Floor	☐ WUCC	C-3010 Pneutronic WMSII	☐ FVT	Flush Valve Connection
4 \ Dubbles Calcations	0)	ama Marada a	☐ HS	Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-
4.) Bubbler Selection: BP Penal Bubbler/Filler (Standard)	B.) Lavato	ory Waste: Elbow Waste (1-1/2" F.I.P.)		resistant use)
BC Code Bubbler/Filler (w/ Mouth Guard)	D PT	Integral 'P'-Trap (1-1/2" F.I.P.)	☐ RTH	•
BPH Ligature-resistant Bubbler/Filler	LWE	Lavatory Waste Extension		L LF C RF R
☐ FL Penal Lav. Filler	OV	Lavatory Overflow	□ TB1	Single Toothbrush Holder
☐ FLH Ligature-resistant Lav. Filler	CW1	Combined Waste w/o Clean-out		L R
E) Florib Value OPFIO (March One alfa)	CW2	Combined Waste w/ Clean-out (Standard)	□ TB2	Dual Toothbrush Holder
5.) Flush Valve GPF'S (Must Specify): 1.28 GPF HET	LW1 LW2	Thru-Wall Extension, 'P' Trap Thru-Wall Extension & Clean-Out	□ TH1	L R Single Towel Hook
1.26 GPF HET 1.6 GPF ULF (Standard)	_	Slow Drain	_	
☐ 3.5 GPF (3" waste tube required)	_ 0_0	5.6.1. 2.4.1.1	☐ TH2	Dual Towel Hook
	10.) Toilet	t Waste:		L LF C RF R
6.) Lavatory Valve Selection:	☐ TWE	Toilet Waste Extension	DC	Decorator Color (Fixture exterior only - White)
NV No Valve	TW3	3" Clean-Out for (TWE)	_	Hard-wired Transformer, 110VAC to 24VAC*
PSL1 Single Temp. Pneumatic Non-metering	_	4" Clean-Out for (TWE)	☐ TF24P	
☐ PSL2 Dual Temp. Pneumatic Non-metering ☐ PML1 Single Temp. Pneumatic Metering	☐ PC3 ☐ PCB3	Pinned Clean-Out Plug PVC-3" Pinned Clean-Out Plug Brass-3"	☐ VG	High Polish Seat Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area)
PML2 Dual Temp. Pneumatic Metering	☐ PC4	Pinned Clean-Out Plug PVC-4"	_ vo	L DLF DRF DR
☐ E1L1 Single Temp. Electronic (Pick Control)*	_		□ SK	Ligature-resistant Toilet Skirt, (ON) On-Floor Only
☐ E1L2 Dual Temp. Electronic (Pick Control)*	☐ GWC	Gasketed Waste Connection (Standard)	☐ TG	12 Gauge Cabinet
Valve Manifold Options:			TSC	Toilet Shipping Cover
Pneumatic or Electronic Only:	-	t Waste Coupling For (TWE):	Other	
☐ MA2 ☐ MA3 ☐ MA4	TWC3	•	Other	10V power through ground fault
	TWC4		(IXEq. I	interrupter (GFCI) receptacle)
	TWC4	-		
Approved For Manufacturing Ry		C Connecting to 4" Cast Iron		Company:
Approved For Manufacturing By:		C Connecting to 4" Cast Iron Date:		Company:
Approved For Manufacturing By: Wall Thickness:		C Connecting to 4" Cast Iron		Company:
		C Connecting to 4" Cast Iron Date:		
Wall Thickness:	Wall	C Connecting to 4" Cast Iron Date:		Company:
Wall Thickness:	Wall	C Connecting to 4" Cast Iron Date:	3	.5 GPF UNIT SHOWN DTE: 1.6 GPF UNIT WILL HAVE
Wall Thickness: NO DE TO THE	Wall	C Connecting to 4" Cast Iron Date:	3	.5 GPF UNIT SHOWN
Wall Thickness: NO DE TO THE	Wall	C Connecting to 4" Cast Iron Date: Type:	3 Ne	.5 GPF UNIT SHOWN DTE: 1.6 GPF UNIT WILL HAVE
Wall Thickness: NO DE TO THE	Wall	C Connecting to 4" Cast Iron Date:	3 Ne	.5 GPF UNIT SHOWN DTE: 1.6 GPF UNIT WILL HAVE
Wall Thickness: NO DE TO THE	Wall	C Connecting to 4" Cast Iron Date: Type:	3 Ne	.5 GPF UNIT SHOWN DTE: 1.6 GPF UNIT WILL HAVE
Wall Thickness: NO DE TO THE	Wall	Date: SELF DRAINING SOAP	. 3	.5 GPF UNIT SHOWN DTE: 1.6 GPF UNIT WILL HAVE
Wall Thickness: NO DE TO THE	Wall 30 3/4" -	Date:	DISH	.5 GPF UNIT SHOWN DTE: 1.6 GPF UNIT WILL HAVE
Wall Thickness: NO DE TO THE	Wall	Date: SELF DRAINING SOAP LAVATORY FAST DRAI	DISH	.5 GPF UNIT SHOWN DTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE
Wall Thickness: NO DE TO THE	Wall 30 3/4" -	Date:	DISH	.5 GPF UNIT SHOWN DTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE
Wall Thickness: NO DE TO THE	Wall 30 3/4" -	Date: SELF DRAINING SOAP LAVATORY FAST DRAIN 1 9/16" FILLER/BUBBLER TO Date: LAVATORY FAST DRAIN FILLER/BUBBLER	DISH	.5 GPF UNIT SHOWN DTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE
Wall Thickness: NOUNT OF THE PROPERTY OF THE	Wall 30 3/4" -	Date: Type: SELF DRAINING SOAP LAVATORY FAST DRAINING 1 9/16" 1 9/16"	DISH	.5 GPF UNIT SHOWN DTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE
Wall Thickness: NO DE TO THE	Wall 30 3/4" -	Date: Type:	DISH	.5 GPF UNIT SHOWN DTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE
Wall Thickness: NO DE TO THE	Wall 30 3/4" -	Date: Type: SELF DRAINING SOAP 19/16" FILLER/BUBBLER— OPTIONAL 1/2"-13—	DISH	.5 GPF UNIT SHOWN DTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE
Wall Thickness: NO DE TO THE	Wall 30 3/4" -	Date: Date: Type: SELF DRAINING SOAP 13 1/4" LAVATORY FAST DRAI PILLER/BUBBLER OPTIONAL 1/2"-13 MOUNTING TAPPINGS LAVATORY VALVE PUSH— BUTTON HOLES (DOUBLE 'D')	DISH	.5 GPF UNIT SHOWN DTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE
Wall Thickness: NO DE TO THE	Wall 30 3/4" -	Date: Date: Type: SELF DRAINING SOAP LAVATORY FAST DRAI FILLER/BUBBLER OPTIONAL 1/2"-13 MOUNTING TAPPINGS LAVATORY VALVE PUSH BUTTON HOLES (DOUBLE 'D') 1-1/2" COMBINED— WASTE/CLEAN-OUT	DISH	.5 GPF UNIT SHOWN DTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE 13 1/2" 6 3/4" Q 11 5/8" 17 3/4"
Wall Thickness: NO DE TO THE	Wall 30 3/4" -	Date: Date: Self Draining Soap 13 1/4" 8 1/2" LAVATORY FAST DRAI MOUNTING TAPPINGS LAVATORY VALVE PUSH— BUTTON HOLES (DOUBLE 'D') 1-1/2" COMBINED— WASTE/CLEAN-OUT W/ P.V.C. PLUG	DISH	.5 GPF UNIT SHOWN DTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE
Wall Thickness: NO DE TO THE	Wall 30 3/4" -	Date: Date: Type: SELF DRAINING SOAP LAVATORY FAST DRAI MOUNTING TAPPINGS LAVATORY VALVE PUSH— BUTTON HOLES (DOUBLE 'D') 1-1/2" COMBINED— WASTE/CLEAN-OUT W/ P.V.C. PLUG 1-1/2" F.I.P. FLUSH—	DISH	.5 GPF UNIT SHOWN DTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE 13 1/2" 6 3/4" Q 11 5/8" 17 3/4"
Wall Thickness: NO DE TO THE	Wall 30 3/4" -	Date: Date: Self Draining Soap 13 1/4" 8 1/2" LAVATORY FAST DRAI MOUNTING TAPPINGS LAVATORY VALVE PUSH— BUTTON HOLES (DOUBLE 'D') 1-1/2" COMBINED— WASTE/CLEAN-OUT W/ P.V.C. PLUG	DISH	.5 GPF UNIT SHOWN DTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE 13 1/2" 6 3/4" Q 11 5/8" 17 3/4"
Wall Thickness: NO DE TO THE	Wall 30 3/4" -	Date: Date: Type: SELF DRAINING SOAP 13 1/4" LAVATORY FAST DRAI PILLER/BUBBLER OPTIONAL 1/2"-13 MOUNTING TAPPINGS LAVATORY VALVE PUSH BUTTON HOLES (DOUBLE 'D') 1-1/2" COMBINED WASTE/CLEAN-OUT W/ P.V.C. PLUG 1-1/2" F.I.P. FLUSH VALVE CONNECTION (3.5 GPF) W/ 7-1/2" GASKET RING,	DISH N 3/4"	.5 GPF UNIT SHOWN DTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE -13 1/2" 6 3/4" Q -17 3/4" 36 1/2"
Wall Thickness: NO DE TO THE	Wall 30 3/4" -	Date: Date: Type: SELF DRAINING SOAP 13 1/4" 8 1/2" LAVATORY FAST DRAI MOUNTING TAPPINGS LAVATORY VALVE PUSH— BUTTON HOLES (DOUBLE 'D') 1-1/2" COMBINED WASTE/CLEAN-OUT W/ P.V.C. PLUG 1-1/2" F.I.P. FLUSH— VALVE CONNECTION 3" O.D. WASTE CONNECTION	DISH	.5 GPF UNIT SHOWN DTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE -13 1/2" 6 3/4" Q -17 3/4" 11 5/8" 17 3/4" 36 1/2"
All Thickness: "WITHOUT FORMAL NOTICE AND WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION." "All 1/4" 93/4" All 1/4" 93/4"	Wall 30 3/4" -	Date: Date: Type: SELF DRAINING SOAP 13 1/4" LAVATORY FAST DRAI PILLER/BUBBLER OPTIONAL 1/2"-13 MOUNTING TAPPINGS LAVATORY VALVE PUSH BUTTON HOLES (DOUBLE D') 1-1/2" COMBINED WASTE/CLEAN-OUT W/ P.V.C. PLUG 1-1/2" F.I.P. FLUSH VALVE CONNECTION (3.5 GPF) W/ 7-1/2" GASKET RING, Ø3/8" MOUNTING HOLES	DISH N 3/4" 4 3/4"	.5 GPF UNIT SHOWN DTE: 1.6 GPF UNIT WILL HAVE 2-1/2" O.D. WASTE TUBE -13 1/2" 6 3/4" Q -17 3/4" 11 5/8" 17 3/4" 36 1/2"

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ECW-1546-350-RPF Wall Mounted **Wall Outlet Replacement Combination** 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 contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 3" O.D. trap which shall maintain a minimum 2" seal and pass a 2-5/8" 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: For 1.6 gallon flush, unit will pass a 2-1/8" ball.

* Check applicable plumbing code for acceptability.

1.) Base Model Number:	7.) Lavatory Valve Actuation:	12.) Option	
ECW-1546-350-RPF Wall Mounted, Wall Outlet,			Manual Reset Toilet Overflow Preventer, Req.(FV)
Replacement Combination		_	Auto Reset Toilet Overflow Preventer, Req. (FV)
for Super Secur A-350	EPB Electronic Push Buttons*	_	Electronic Toilet Overflow Preventer,
2) Toilet Orientation:	☐ EPBH Ligature-resistant Electronic Push Buttons' ☐ PZPB Piezo Push Buttons*		Requires (EFV) & (WUCC-3010) or (WMSII)* Hydraulic Flush Valve (Includes Push Button)
2.) Toilet Orientation: C Centered	PZPB Piezo Push Buttons*		Hydraulic Flush Valve (Includes Push Button) Electronic Flush Valve (Pick Control)*
_ Centered	8.) Electronic Controls*	_	Electronic Flush Valve (PICK Control)* Electronic Flush Valve w/ (PZPB) (Pick Control)*
3.) Fixture Mounting:	(Must Use Electronic Lavatory & Flush Valves):		Toilet Flush Extension
☐ OF Off-Floor	□ WUCC-3010 □ Pneutronic □ WMSII	_	Flush Valve Connection
			Hinged White Plastic Seat (No Cover, not
4.) Bubbler Selection:	9.) Lavatory Waste:		recommended for Maximum Security/Ligature-
☐ BP Penal Bubbler/Filler (Standard)	☐ EB Elbow Waste (1-1/2" F.I.P.)		resistant use)
BC Code Bubbler/Filler (w/ Mouth Guard)	PT Integral 'P'-Trap (1-1/2" F.I.P.)		Recessed Tissue Holder
☐ BPH Ligature-resistant Bubbler/Filler	LWE Lavatory Waste Extension		L LF C RF R
☐ FL Penal Lav. Filler	OV Lavatory Overflow	□ TB1	Single Toothbrush Holder
☐ FLH Ligature-resistant Lav. Filler	☐ CW1 Combined Waste w/o Clean-out		L DR
	☐ CW2 Combined Waste w/ Clean-out (Standard)	☐ TB2	Dual Toothbrush Holder
5.) Flush Valve GPF'S (Must Specify):	LW1 Thru-Wall Extension, 'P' Trap	_	□L □R
1.28 GPF HET	LW2 Thru-Wall Extension & Clean-Out	☐ TH1	Single Towel Hook
1.6 GPF ULF (Standard)	☐ SLOW Slow Drain		L LF C RF R
3.5 GPF (3" waste tube required)		☐ TH2	Dual Towel Hook
	10.) Toilet Waste:	D 50	L LF C RF R
6.) Lavatory Valve Selection:	TWE Toilet Waste Extension	_	Decorator Color (Fixture exterior only - White)
NV No Valve	TW3 3" Clean-Out for (TWE)	_	Hard-wired Transformer, 110VAC to 24VAC*
☐ PSL1 Single Temp. Pneumatic Non-metering	_	TF24P	,
☐ PSL2 Dual Temp. Pneumatic Non-metering	PC3 Pinned Clean-Out Plug PVC-3"		High Polish Seat Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area)
☐ PML1 Single Temp. Pneumatic Metering	☐ PCB3 Pinned Clean-Out Plug Brass-3" ☐ PC4 Pinned Clean-Out Plug PVC-4"	– vG	,
PML2 Dual Temp. Pneumatic MeteringE1L1 Single Temp. Electronic (Pick Control)*	☐ PC4 Pinned Clean-Out Plug PVC-4" ☐ PCB4 Pinned Clean-Out Plug Brass-4"	☐ TG	L LF RF R 12 Gauge Cabinet
☐ E1L1 Single Temp. Electronic (Pick Control)*	GWC Gasketed Waste Connection (Standard)	_	Toilet Shipping Cover
Valve Manifold Options:	_ 3770 Gasketod Waste Confection (Standard)	☐ Other	Tonot ornpping oover
Pneumatic or Electronic Only:	11.) Toilet Waste Coupling For (TWE):	Other	
□ MA2 □ MA3 □ MA4	☐ TWC3P Connecting to 3" PVC	_	0V power through ground fault
	☐ TWC3C Connecting to 3" Cast Iron		interrupter (GFCI) receptacle)
	☐ TWC4P Connecting to 4" PVC		(,)
	TWC4C Connecting to 4" Cast Iron		
Approved For Manufacturing By:	Nate:	(Company:
Wall Thickness:			Joinpally
wan monicos.		•	
-	29"		3.5 GPF UNIT SHOWN
			3.3 GET UNIT SHOWIN
N I ON I ON I		NC	TE: 1.6 GPF UNIT WILL HAVE
15 gg	SELF DRAINING SOAP DISH	140	2-1/2" O.D. WASTE TUBE
ROUG BELIGAN OBLIGAN	15"		
	FAST DRAIN		
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	11 1/2" - - 3	3/4" 13	3 1/2" ——
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SIDE	WEW	REAR \	9"—— VIEW

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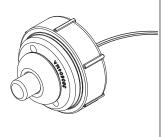
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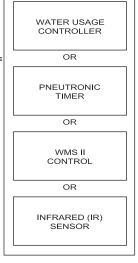
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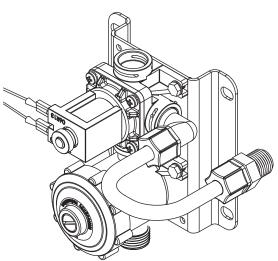
SIDE VIEW REAR VIEW



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. 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.

Valve complies with NSF-61 standard.

	Sala	ction	(choos	e one):
ILJVV	SHIE		IL.HUUS	e oner

- 0.5 GPM Flow (lavatories)
- ☐ 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
- ☐ Infrared (IR) Sensor

Push Button*:

- ☐ EPB Electronic Push Button
- ☐ EPBH Ligature-resistant Electronic
 - Push Button
- □ PZPB Piezo Push Button

*Not required for IR

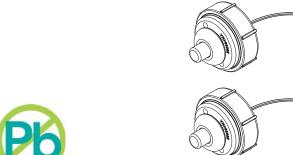
Options:

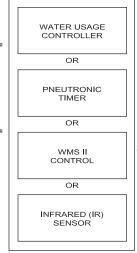
- -MA2 (Double Manifold, no flow limitation)
- -MA3 (Triple Manifold, 0.5 GPM flow only)
- ☐ -MA4 (Quad Manifold, 0.5 GPM flow only)
- -TMV In-line Thermostatic Mixing Valve 24 VAC Power Transformer supplied by others.

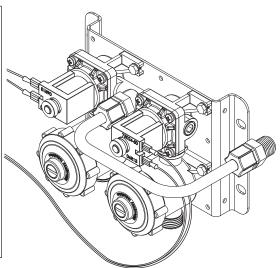




E1L2 Dual Temperature Lead-free **Electronic Valve**







Recommended Specifications

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. 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.

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.

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:

- WUCC-3010 WUSC-2200 WUSC-2400
- ☐ Pneutronic Timer ☐ WMS II Control
- ☐ Infrared (IR) Sensor

Push Buttons*:

- ☐ EPB Electronic Push Buttons
- EPBH Ligature-resistant Electronic
 - **Push Buttons**
- ☐ PZPB Piezo Push Buttons

*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)
 - In-line Thermostatic Mixing Valve

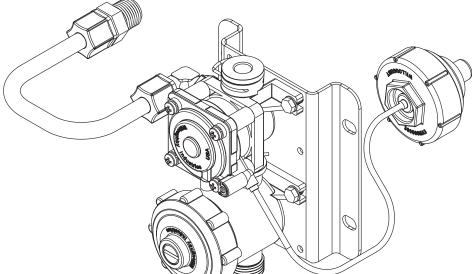
24 VAC Power Transformer supplied by others.



WILLOUGHBY

(PML1 SHOWN)

PML1 / PSL1
Single Temperature
Lead-free
Pneumatic Valve





Recommended Specifications

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. 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.

Model Number:

□ PML1 Single Temp. Metering□ PSL1 Single 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:

□ PPB Pneumatic Push Button

☐ PBH Ligature-resistant Pneumatic

Push Button

☐ PLPB Pneumatic Palm Push Button

Options:

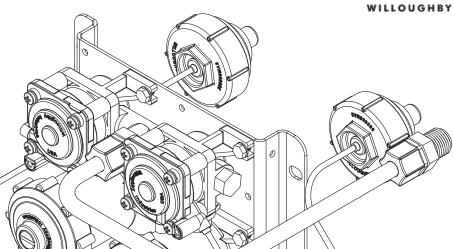
- -MA2 (Double Manifold, No flow limitation)
- ☐ -MA3 (Triple Manifold, 0.5 GPM flow only)
- -MA4 (Quad Manifold, 0.5 GPM flow only)
- ☐ -TMV In-line Thermostatic Mixing Valve



WILLOUGHBY

(PML2 SHOWN)

PML2 / PSL2 Dual Temperature Lead-free Pneumatic Valve





Recommended Specifications

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. 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.

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IVI	UU	ıeı	INL	ш	DE	ar .

- 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)

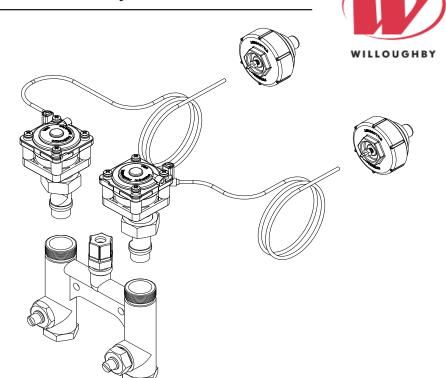
Push Button:

- ☐ PPB Pneumatic 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

WRMV / WRSCV Retrofit Valve Assemblies



Recommended Specifications

Retrofit Valve Assembly shall be: Willoughby Model No. **WR___V-__** (Select from options list)

The Willoughby Retrofit Metering Valve Assembly (WRMV) and Willoughby Retrofit Non-metering Valve Assembly (WRSCV) 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:

- 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.)

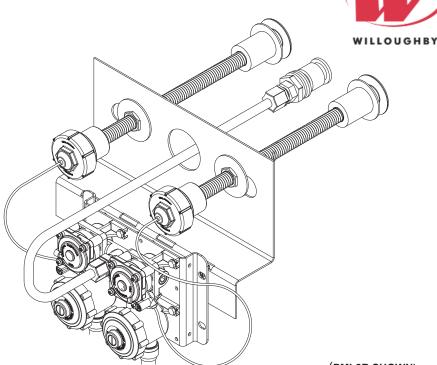
Vandal-resistant stainless steel push buttons attached to the diaphragm pumps activate the integral pneumatic valve within each valve cartridge via 1/8" pneumatic tubing. The vandal-resistant push buttons shall be keyed/non-removable from the front of the fixture and shall require less than 5 lbs of 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.

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

PML2R / PSL2R Dual Temperature Replacement Pneumatic Valve



Recommended Specifications

(PML2R SHOWN)

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. 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.

Model Number:

□ PML2R Dual Temp. Metering□ PSL2R Dual Temp. Non-metering

Inlet Connection (choose one):

3/4"

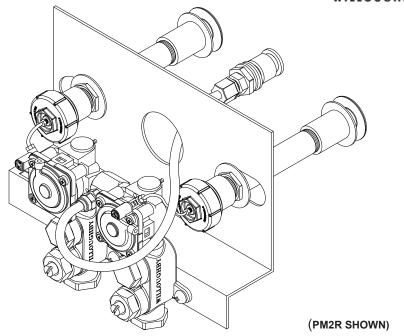
Options:

- -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.



WILLDUGHRY

PM2R / PS2R Dual Temperature Replacement Pneumatic Valve



Recommended Specifications

Dual Temperature, Replacement Pneumatic Valve assembly shall be: Willoughby Model No. **P_2R** (Select from options list)

Not for use in the states of California or Vermont.

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 push button assembly is arranged to be mounted to the back-splash to support the fixture.

The valve checkstop/strainers shall be cast brass with integral mounting lugs. Replaceable stainless steel strainers and 1.0 GPM flow control shall be serviced without disturbing the supply line. The connection to the filler/bubbler shall be flexible tubing. Water inlets are 1/2" FPT and shall be reversible for either top or bottom supply. The valve assembly is accessible from the pipe chase only.

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. 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.

Model Number:

PM2RDual Temp. MeteringPS2RDual Temp. Non-metering

Wall Thickness (choose one):

- ☐ 1" (PM-2F-1.0-S-1)
- ☐ 4" (PM-2F-1.0-S-4)
- ☐ 6" (PM-2F-1.0-S-6)
- 8" (PM-2F-1.0-S-8)

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

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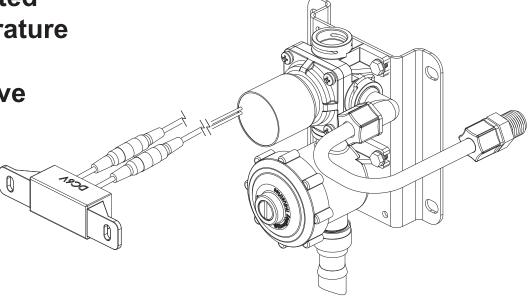
^{*} This is not a substitute for a thermostatic mixing valve. The delivered water temperature is the result of the two combined inlet temperatures and cannot be adjusted by this valve assembly. The hot side of the valve must be supplied with tempered water.

^{**} Push buttons require minimum Ø1-5/16" round or 1-1/8" square backsplash openings.



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)

For washfountain use exclusively, the Battery Operated Electronic Valve assembly uses a 6V 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 sprayhead/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 35-70 psi. Valve shall withstand pressures up to 90 psi. Cost-reducing manifolded valves shall consist of multiple valve assemblies served by a common supply line. Each 6V latching valve coil shall require an individual DC battery pack using (4) AA-type batteries for valve operation (supplied by manufacturer).

Valve complies with NSF-61 standard.

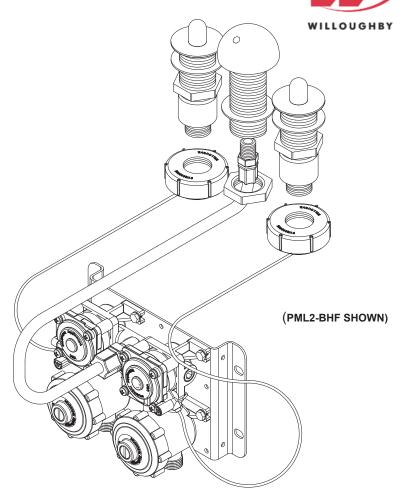
Model Number:

■ EBL1 Single Temp. Battery Operated

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

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. 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).

MADE IN THE U.S.A.

□ PML1-BHF Single Temperature Metering Valve□ PML2-BHF Dual Temperature Metering Valve

2.) Options:

☐ TMV In-line Thermostatic Mixing Valve

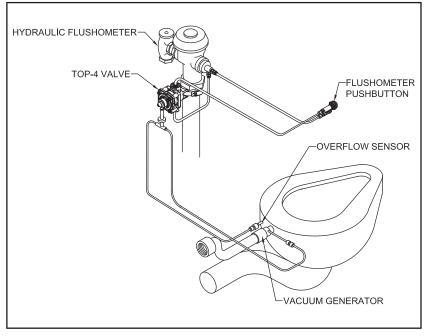
Approved For N	Manufacturing By:	Wall Type:	_ Date:	Compan	/:
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.	EXISTING LAVATORY — NOT PROVIDED W/ VALVE) WASHER (P/N: 600068) —				SH BUTTON ASSEMBLIES CAN DECK THICKNESS UP TO 1" DECK MOUNTED CHINA LAV. HEMISPHERICAL BUBBLER,Ø1-1/16" (P/N: 380075) (3) FAUCET HOLES REQUIRED NUT (P/N: 600612N)
VERIFY ALL DIMENSIONS WILLOUGHBY RESERVES TH DIMENSIONS WITHOUT FORMAL	ATER SUPPLY TUBING ————————————————————————————————————				(2) CHINA LAV. PUSH BUTTON ASSEMBLIES, Ø1-1/16" (P/N: 600312) NYLON CONNECTOR (P/N: 320566) PNEUMATIC TUBING: RED (P/N: 600470) BLUE (P/N: 600475)
	(2) 6" FLEXHOSES ———————————————————————————————————				LEAD-FREE PNEUMATIC VALVE ASSEMBLY W/ BRACKET & FLEXHOSES (P/N: PML2105XXS)

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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.

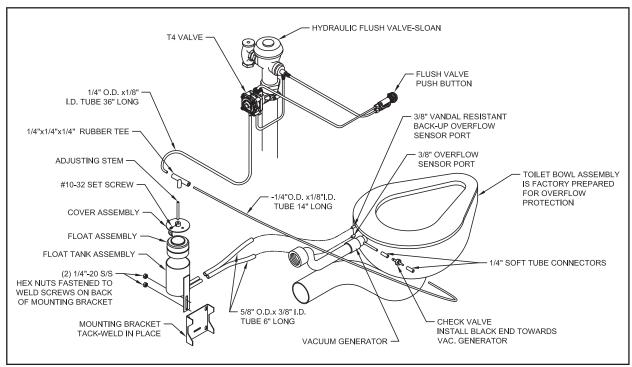
Operation

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.

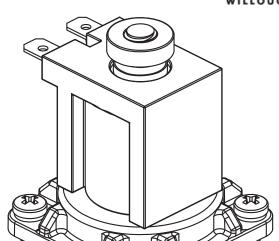
The disabler valve is normally open vacuum operated valve installed in the control circuit of a hydraulic flushometer. The vacuum closes the disabler valve thereby preventing any additional flushes until the water level in the toilet bowl returns to normal.

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.



WILLDHIGHEY

EVK-4 Lead-free Electronic Valve Retrofit / Rebuild Kit





Recommended Specifications

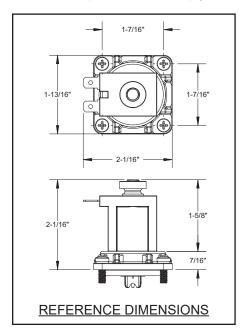
Lead-free Electronic Valve Retrofit / Rebuild Kit shall be: Willoughby Model No. **EVK-4**

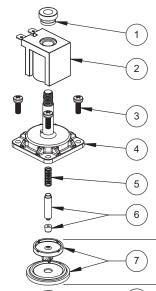
Lead-free Electronic Valve Retrofit / Rebuild Kit can be used to retrofit an existing pneumatic valve to electronic operation; it can also be used to rebuild an existing electronic valve, to restore a fixture to proper operation.

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

----PVK-3 (ITEM #: 7)

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WILLDHIGHEY

VALVE MANIFOLDING

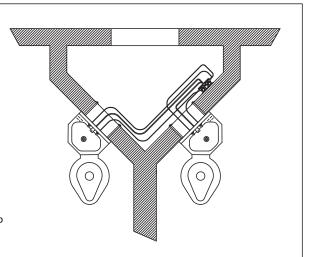
Valve Manifolding

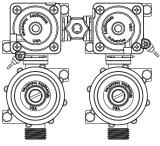
"MANIFOLDING" Willoughby's suffix "MA" allows for the operation of up to four fixtures from a common pair of Hot/Cold supply lines.

Primary Advantages

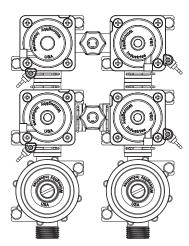
- Reduces installation costs, labor & materials
- Easy access for maintenance
- Adds flexibility to your design

To specify, add suffix "MA" to valve model number followed by 2, 3, or 4 to indicate number of fixtures to be manifolded.

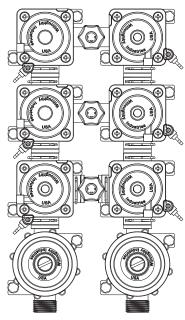




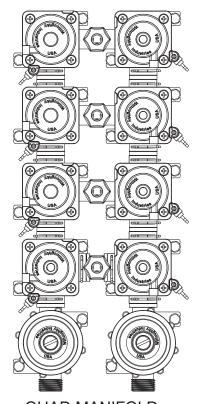
SINGLE UNIT (1 FIXTURE)



DUAL MANIFOLD
-MA2 (2 FIXTURES)



TRI MANIFOLD
-MA3 (3 FIXTURES)



QUAD MANIFOLD -MA4 (4 FIXTURES)

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WILLOUGHBY

VALVE CHARACTERISTICS

Power Source Required					
	N _o	N _o	N _o	No	Yes
Remote Mounting Distance Type of Inlets	1/2" FPT	1/2" FPT	1/2" FPT	1/2" FPT	1/2" FPT
Remote Mount	A/N	N/A	Up to 10'	Up to 10'	10,+
Manifold Capability	o N	Š	Yes	Yes	Yes
Checkstops & Strainers	Yes	Yes	Yes	Yes	Yes
Mefering Range	2-60	A/N	5-90 Sec.	N/A	1-Sec.
Non-Hold Open Realure	o N	Αχ	Yes	A/N	Yes
Metering Control	Hyd.	₹ X	Pneu.	A/N	Elec.
noileVino noileIadO avleV	Mech.	Mech.	Pneu.	Pneu.	Elec.
noilevilon Activation	Mech.	Mech.	Pneu.	Pneu.	Pneu.
Barrier Free	oN N	8	Yes	Yes	Yes
For Shower Use	Yes	8	Yes	oN N	Yes
For Drinking Fountain Use	o N	S S	§ 2	Yes	9
For Lavatory Use	Yes	Yes	Yes	Yes	Yes
Valve Series /	ME	SC	₽ M	PS	긥

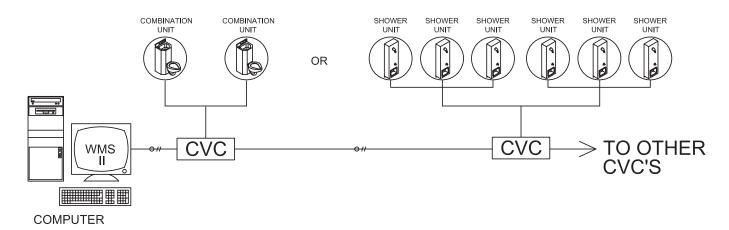
Note: Willoughby valves do not control water temperatures and shall not be used in lieu of tempering valves. For more informaton on tempering valves, please contact the factory 1-800-428-4065.



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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 XP, Windows 7 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 4 toilets with overflow sensing (6 toilets without overflow sensing) or combinations thereof 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 15" or larger color monitor. Optional touch screen interface shall be available as an option.

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 4,000 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
	Standard Monitor (LCD)
	☐ Touch Screen (LCD) (additional cost)
	Laptop PC
	No PC (Stand-alone only)
4.)	Other Options:
	Block Diagram Screen Layout (Standard)
	Floor Plan Screen Layout (additional cost)
	On-site Start-Up, Commissioning, and Training Session
	(must be scheduled 30 days prior to training and after
	complete installation and testing of the system)
	Other
	Other

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

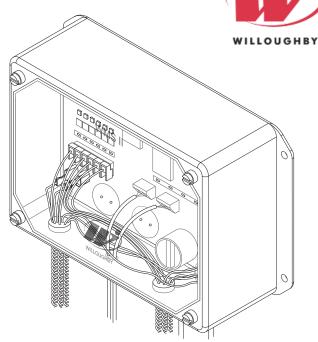
Administrator Security Level

- 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)
- (4) Toilets with overflow sensing
- (6) Toilets without overflow sensing
- (6) Single temperature showers
- Any combination totalling 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.

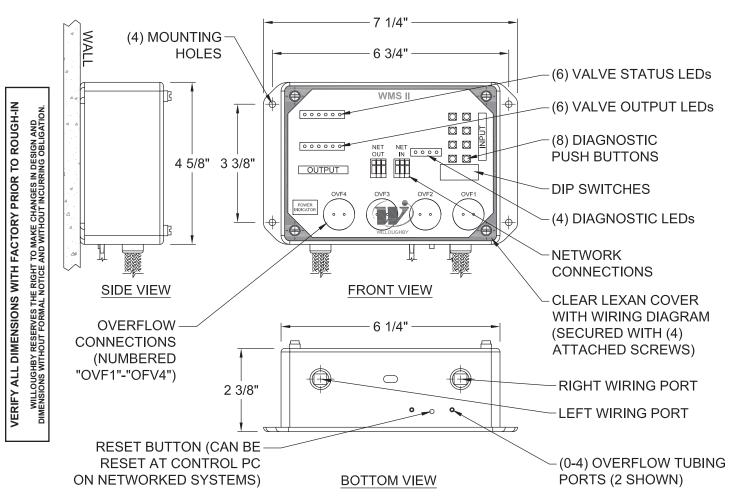
Configurable overuse limits shall be provided to control the amount of use of all fixture functions within a programmable time period of up to 24 hours. Overuse control shall be configurable to trigger only notification, latched lock-out of the fixture function, or auto-limit of fixture function to prevent its overuse.

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MADE IN THE U.S.A.

MODEL NUMBER AND OPTIONS: 1.) Control System: 5.) Shower Parameter Configuration: Number of Showers: ____ Single or Dual Temp: _ CVC2 Cell Valve Controller (2 min.) per Button-push, (8 min.) of Water Flow per (30 min.), 2.) Control Station: with (30 min.) Lock-out Stand-alone (Standard) (____ min.) per Button-push, ☐ Custom: Networked PC (Additional Cost) (___ min.) of Water Flow per (___ min.), Laptop PC (Additional Cost) with (min.) Lock-out (Laptop PC recommended for field-adjustment of CVC settings) 6.) Other Options: 3.) Toilet Parameter Configuration: ☐ Block Diagram Screen Layout (Standard for Tablet PC) Number of Toilets with Overflow Sensing: (4 max.) Floor Plan Screen Layout (Additional cost for Tablet PC) Number of Toilets w/o Overflow Sensing: _____(6 max.) On-site Start-Up, Commissioning, and Training Session (3) Flushes per (1 Hr.) with (1 Hr.) Lock-out (must be scheduled 30 days prior to training and after Custom: (___) Flushes per (___ Hr.), with (___ Hr.) Lock-out complete installation and testing of the system) TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard) 4.) Lavatory Parameter Configuration: TF24P Plug-in Transformer, 110VAC to 24VAC* Number of Lavatories: ____ Single or Dual Temp: _ Other (15 sec.) per Button-push, (5 min.) of Water Flow per (30 min.) ■ Other (____ sec.) per Button-push, *(Reg 110V power through ground fault interrupter (GFCI) receptacle) (____ min.) of Water Flow per (____ min.) with (___ min.) Lock-out Approved For Manufacturing By: ___ ____ Date: _____ Company: ___ Wall Type: ____ Wall Thickness: ___

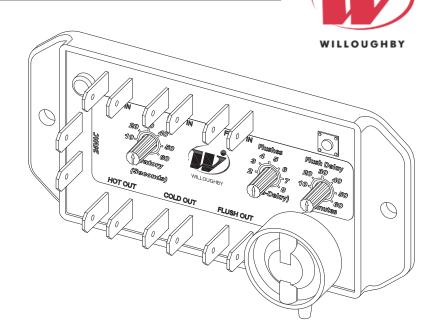


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S9-4



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.

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 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.

MADE IN THE U.S.A.

MODEL NUMBER AND OPTIONS:

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)

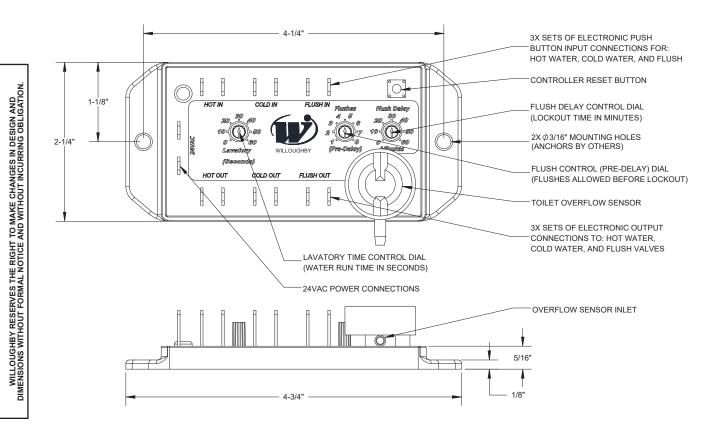
☐ TF24P Plug-in Transformer, 110VAC to 24VAC*

Other____

□ Other

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

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



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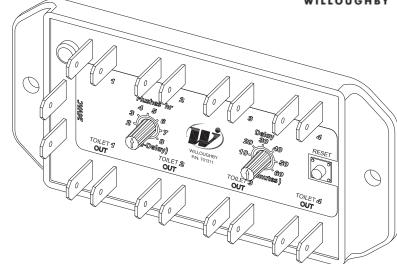
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VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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.

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 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.

MADE IN THE U.S.A.

MODEL NUMBER AND OPTIONS:

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*

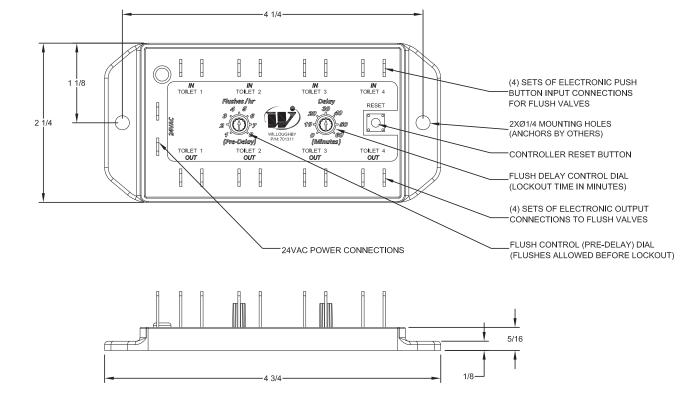
Other____

□ Other

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

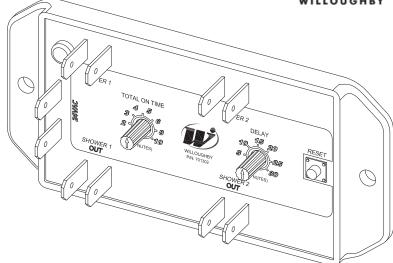
Approved For Manufacturing By: _____ Date: ____ Company: _____ Wall Thickness: _____ Wall Type: _____





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.

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.



MODEL NUMBER AND OPTIONS:

1.) Control System:

□ WUSC-2200 Electronic Water Usage 2-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)

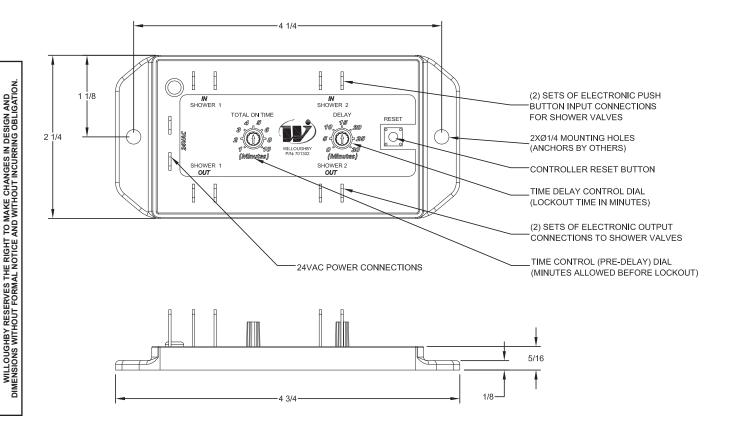
☐ TF24P Plug-in Transformer, 110VAC to 24VAC*

Other____

□ Other

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

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



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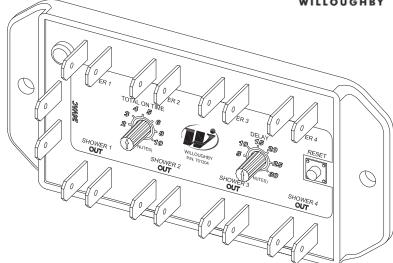
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VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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.



MODEL NUMBER AND OPTIONS:

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)

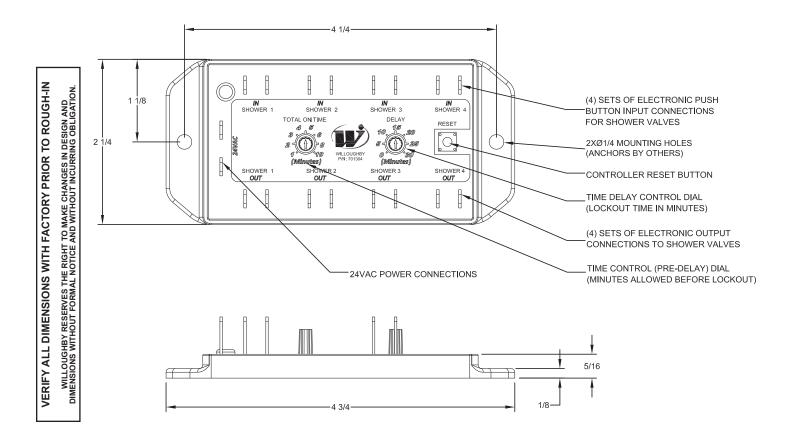
☐ TF24P Plug-in Transformer, 110VAC to 24VAC*

Other____

□ Other

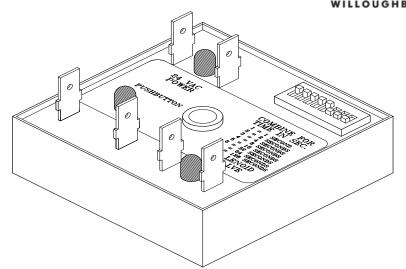
*(Req 110V power through ground fault interrupter (GFCI) receptacle)

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



W

Pneutronic All-Purpose Valve Controller



Recommended Specifications

Electronic metering control shall be:

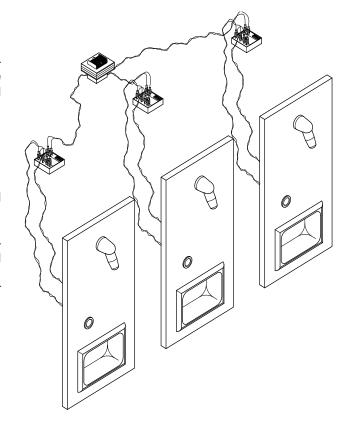
Willoughby Model: Pneutronic All-Purpose Valve Controller

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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RTH1 **Rear Mounted** Tissue Holder

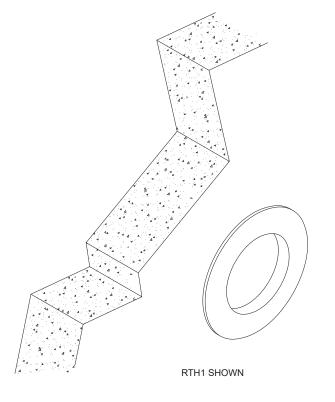
RTH1 recessed toilet tissue holder shall be die-formed of 14 GA, Type 304 stainless steel with an 18 GA, Type 304 #3 satin finish exposed flange. Flange edge to be turned back providing a tight fit to wall. Holder shall accommodate a standard roll of tissue, measuring 4-3/4" in diameter and 4-3/4" deep, providing no free area for the concealment of contraband.

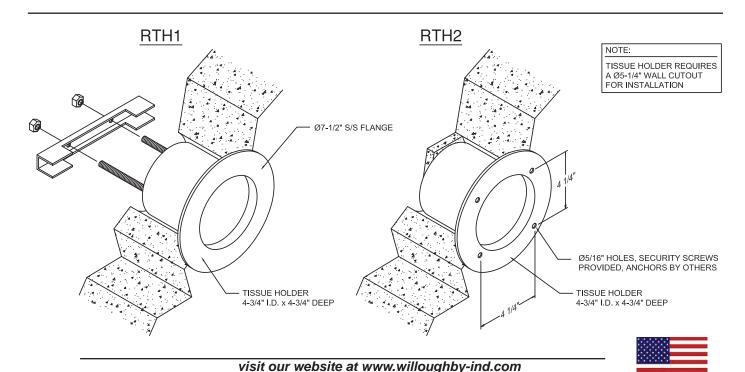
Mounting hardware supplied with the tissue holder.

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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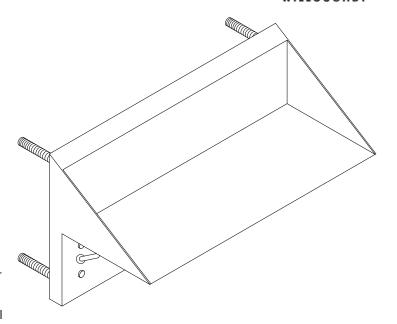
WA-1824 Release Towel Hook w/ Integral Shelf Rear Mounted

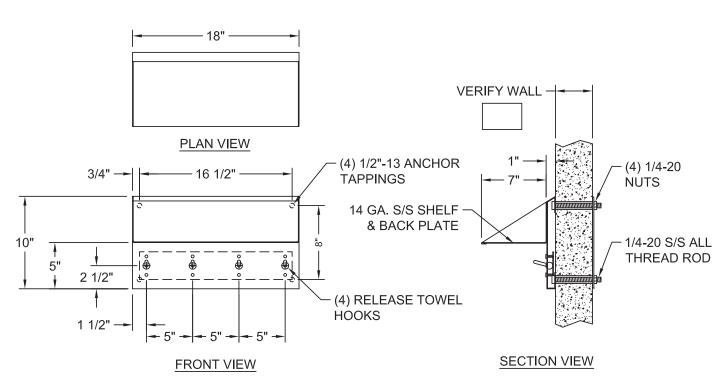
1	MODEL NUMBER	NUMBER OF HOOKS
	WA-1824	4

WA-1824 release towel hook assembly with integral shelf shall be fabricated from Type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #3 satin finish.

Pressure activated release towel hook(s) will support light clothing and towel loads, however, excessive hook loads will cause downward hook release.

WA-1824 hook assembly supplied with all thread rod, nuts and washers.





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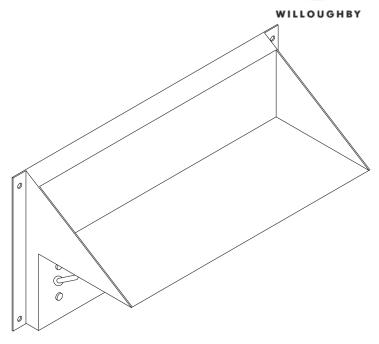


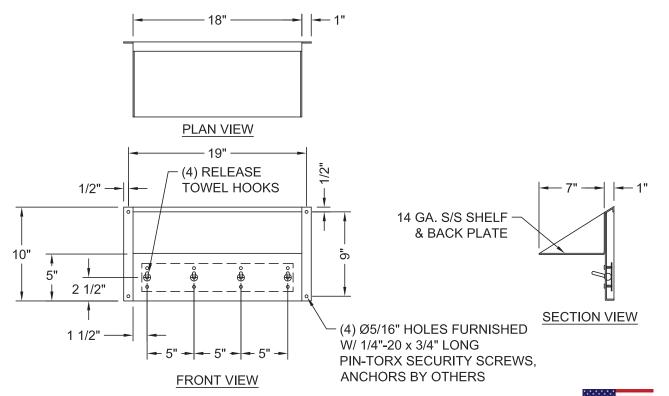
1	MODEL NUMBER	NUMBER OF HOOKS
	WA-1824-FA	4

WA-1824-FA release towel hook assembly with integral shelf shall be fabricated from Type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #3 satin finish.

Pressure activated release towel hook(s) will support light clothing and towel loads, however, excessive hook loads will cause downward hook release.

WA-1824-FA hook assembly supplied with vandal-resistant stainless steel security screws. Wall anchors by others.





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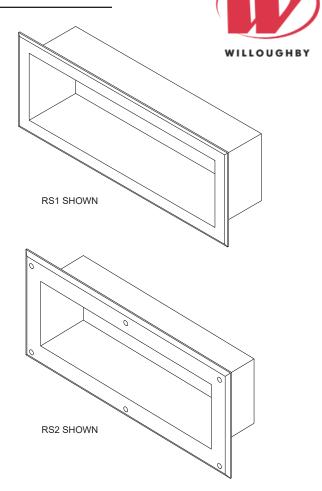
RS Series Recessed Shelf

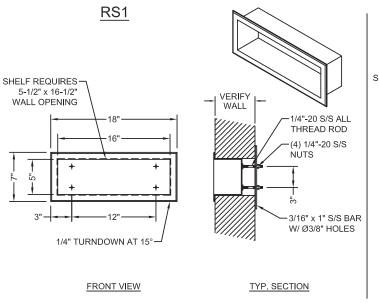
1	MODEL NUMBER	MOUNTING CONFIGURATION
	RS1	REAR MOUNTED
	RS2	FRONT MOUNTED

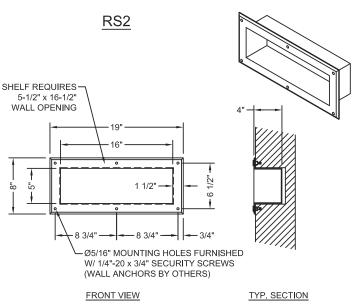
RS ____ recessed shelf shall be fabricated entirely of 16 GA, Type 304 stainless steel. Exposed flange surfaces are polished to a #3 satin finish. Shelf is available in both rear mounting (RM) or flange mounting (FM) configuration.

Shelf assembly (RS1) supplied with anchoring hardware.

Shelf assembly (RS2) supplied with vandal-resistant security screws, wall anchors by others.







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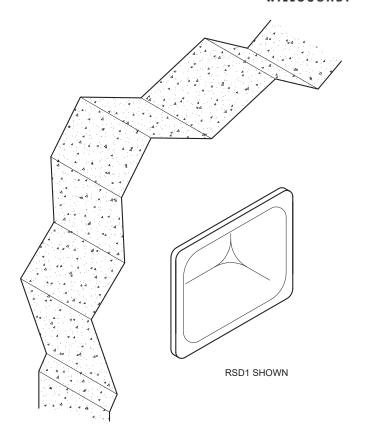
RSD1 Rear Mounted Recessed Soap Dish

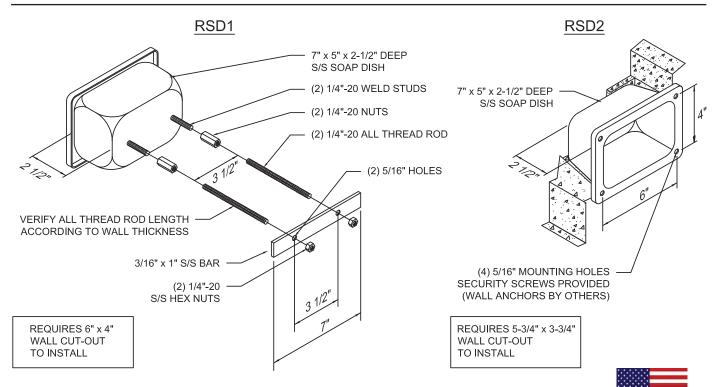
RSD1 recessed soap dish shall be 16 GA, Type 304 stainless steel. Unit is one piece construction, tamper-resistant with all exposed surfaces polished to a #3 satin finish. Wide radius corners assure cleanliness.

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.





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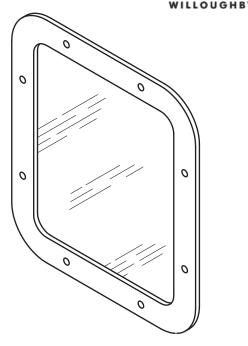
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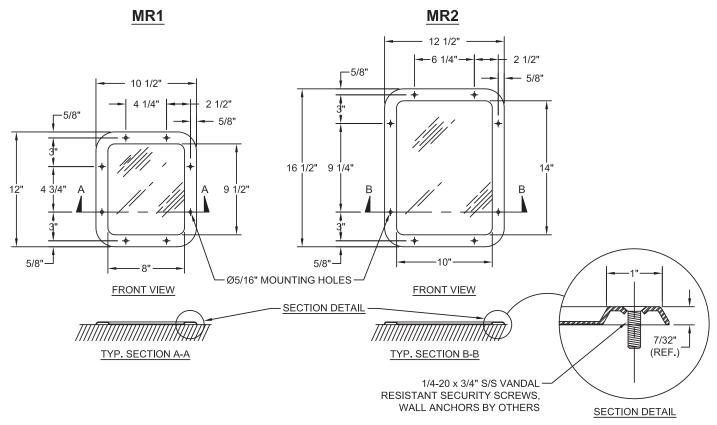
MR Series Front Access Security Mirror

1	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.

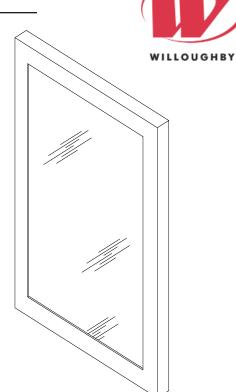
Optional in-wall embedded mounting plate is available. For optional embedded mounting plate, specify EM1 or EM2 to correspond with above mirror size.



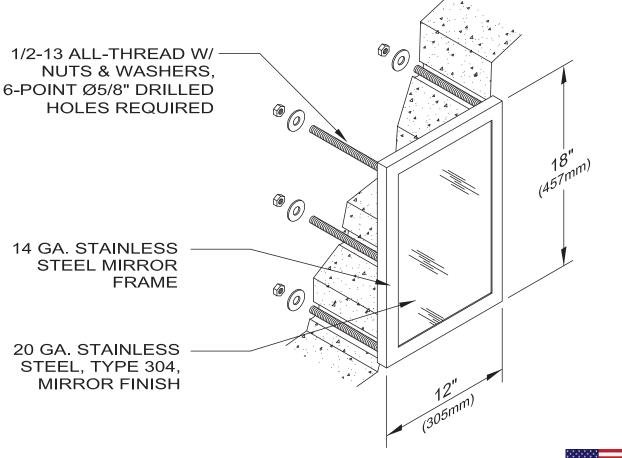


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FMR1 Framed Security Mirror Rear Mounted



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.



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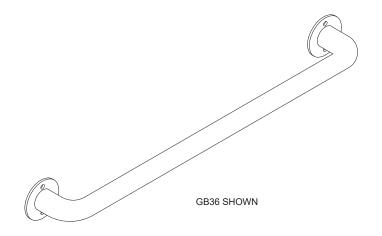
GB Series Grab Bars

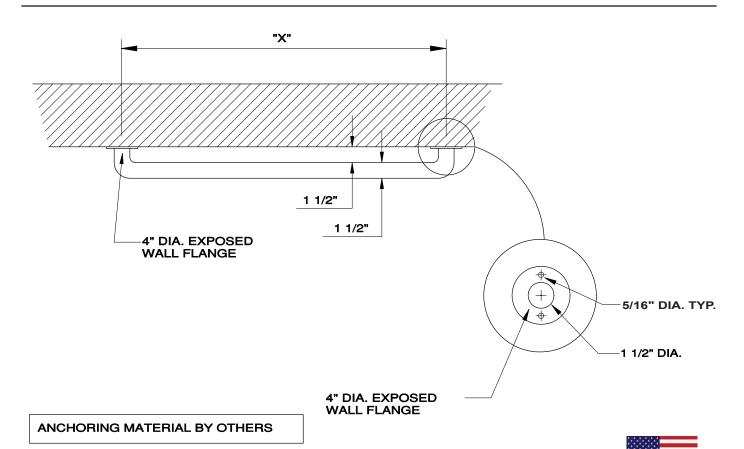


1	MODEL NUMBER	GRAB BAR LENGTH ("X")
	GB18	18"
	GB24	24"
	GB30	30"
	GB36	36"
	GB42	42"
	GB48	48"
	GB3318	33" X 18"

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

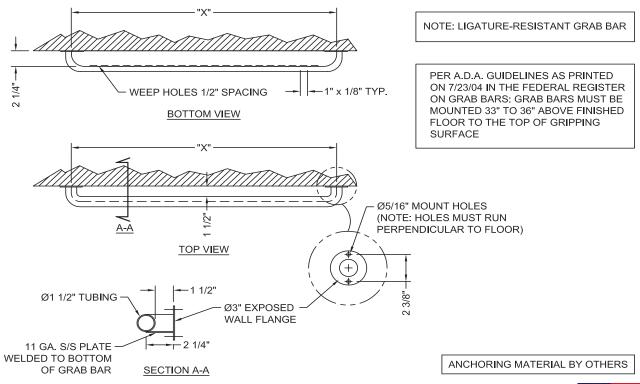
1	MODEL NUMBER	GRAB BAR LENGTH ("X")
	ASGB18	18"
	ASGB24	24"
	ASGB30	30"
	ASGB36	36"
	ASGB42	42"
	ASGB48	48"
	ASGB3318	33" X 18"

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.

ASGB3318 SHOWN

ASGB36 SHOWN

Various configurations are available.



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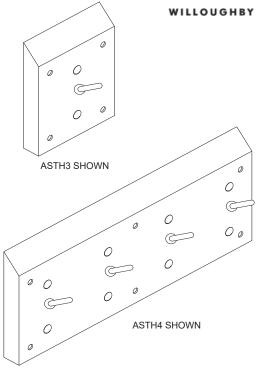
ASTH Series Ligature-resistant Release Towel Hook

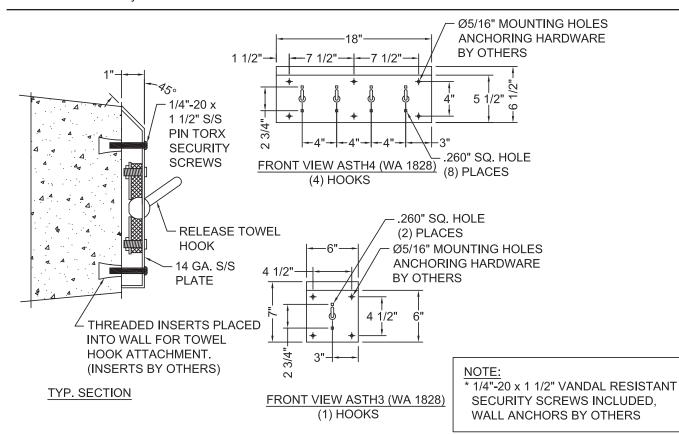
/	MODEL NUMBER	NUMBER OF HOOKS
	ASTH3	1
	ASTH4	4

ASTH _____ ligature-resistant release towel hook assembly shall be fabricated from Type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #3 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 a ligature-resistant sloped top in addition to the pressure activated release towel hooks.

Hook assemblies supplied with vandal-resistant stainless steel security screws. Wall anchors by others.





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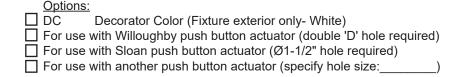
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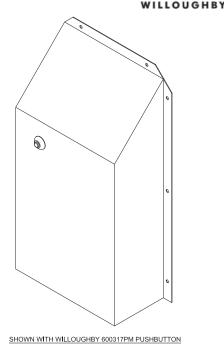
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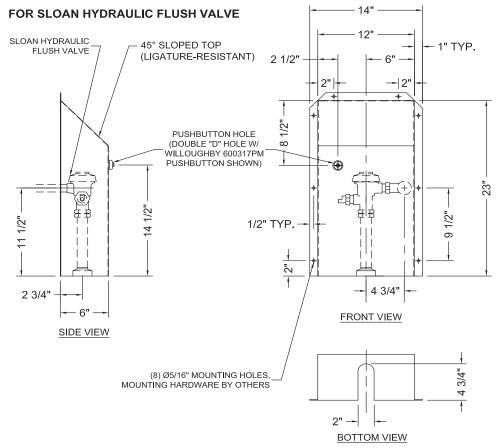
ASFVC Ligature-resistant Flush Valve Cover

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 #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.









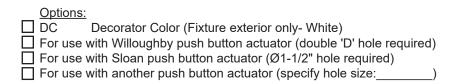
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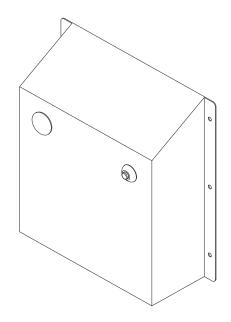
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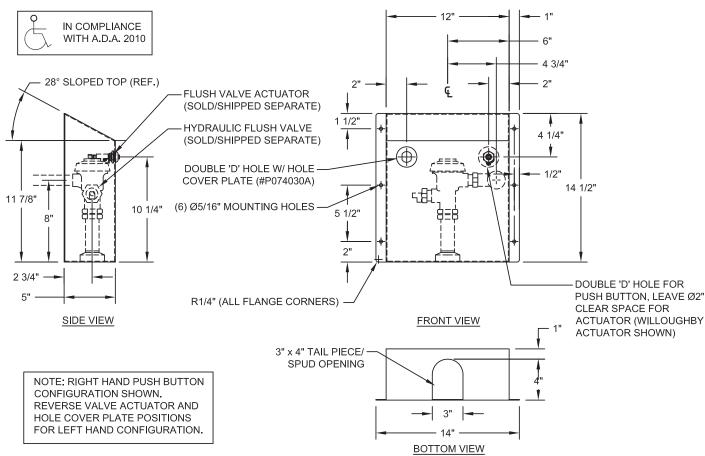
ASFVCADA Ligature-resistant ADA Compliant Flush Valve Cover

Stainless steel ligature-resistant ADA compliant flush valve cover shall be: Willoughby Option No. **ASFVCADA**

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, (2) flush valve push button holes for right or left hand toilet, and (1) stainless steel hole cover plate to cover the unused push button hole.







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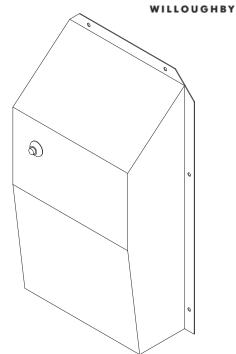
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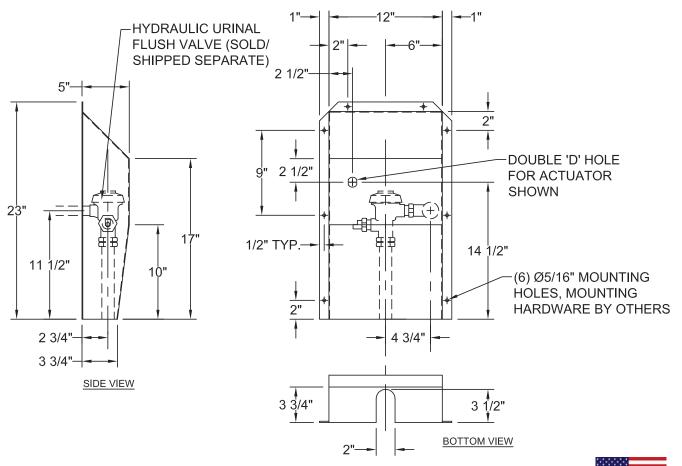
ASUFVC Ligature-resistant Urinal Flush Valve Cover

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 #3 satin finish. Flush valve cover is supplied with \emptyset 5/16" mounting holes, anchoring hardware is provided by others. Flush valve cover shall have ligature-resistant sloped top and bottom.

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:_____)





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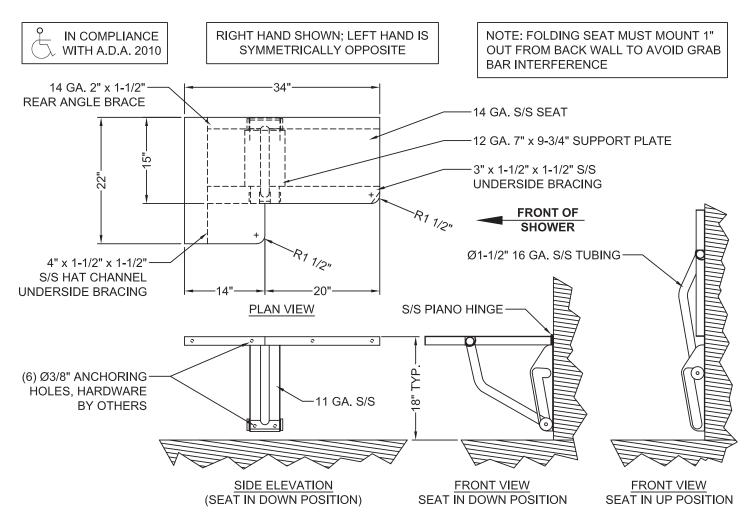


FSS Series Folding Shower Seat

/	MODEL NUMBER	SEAT CONFIGURATION
	FSSR	RIGHT HAND
	FSSL	LEFT HAND

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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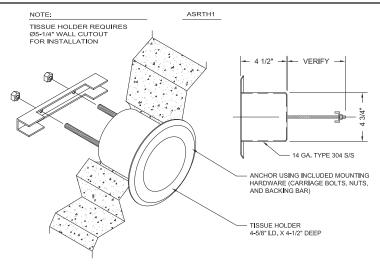


S10-15

ASRTH Series Ligature-Resistant Tissue Holder

ASRTH1 Rear Mounted Ligature-Resistant 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).



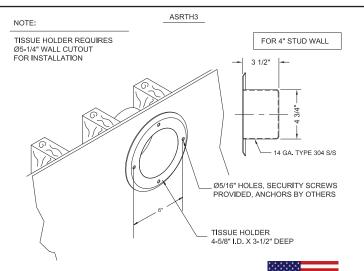
ASRTH2 Front Mounted Ligature-**Resistant Tissue Holder**

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.

ASRTH2 TISSUE HOLDER REQUIRES Ø5-1/4" WALL CUTOUT FOR INSTALLATION Ø5/16" MOUNTING HOLES TISSUE HOLDER 4-5/8" I.D. X 4-1/2" DEEP

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 interior exposed flange edge. Mounting shall be from the front. Stainless steel security screws provided, wall anchors by others.

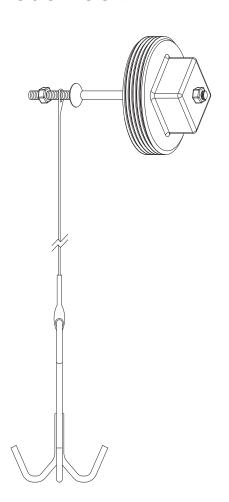


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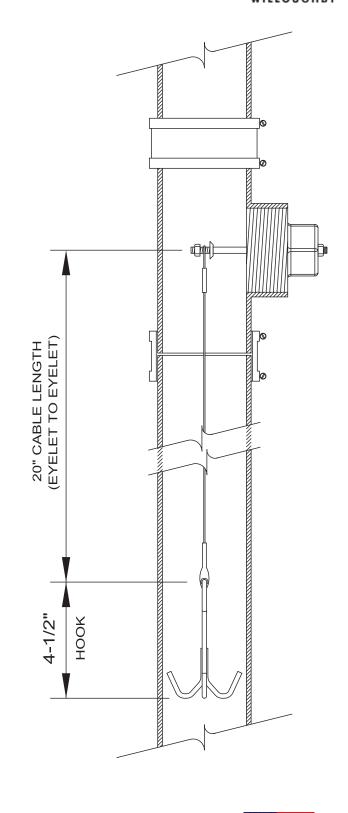
COH Series Clean-out Hook



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 cleanout 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.



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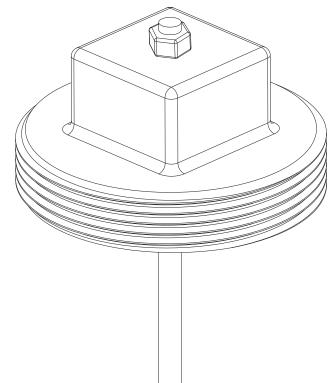


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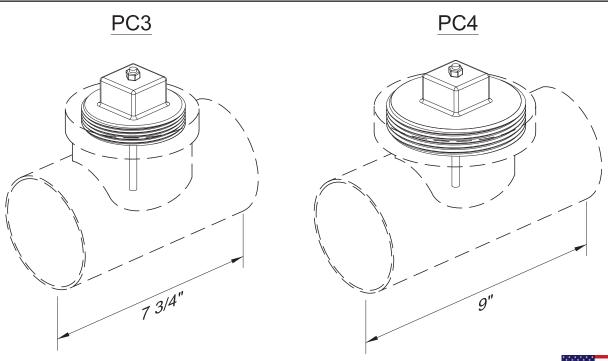
PC Series Pinned Clean-out Plug

/	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.



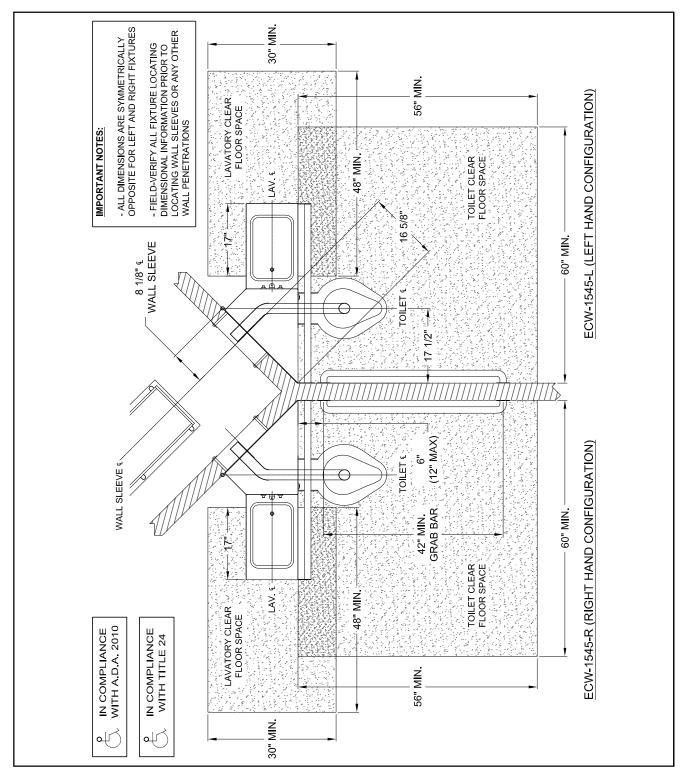
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Willoughby Industries - Supplemental

WILLOUGHBY

1545 Series Handicap Combination Unit Layout

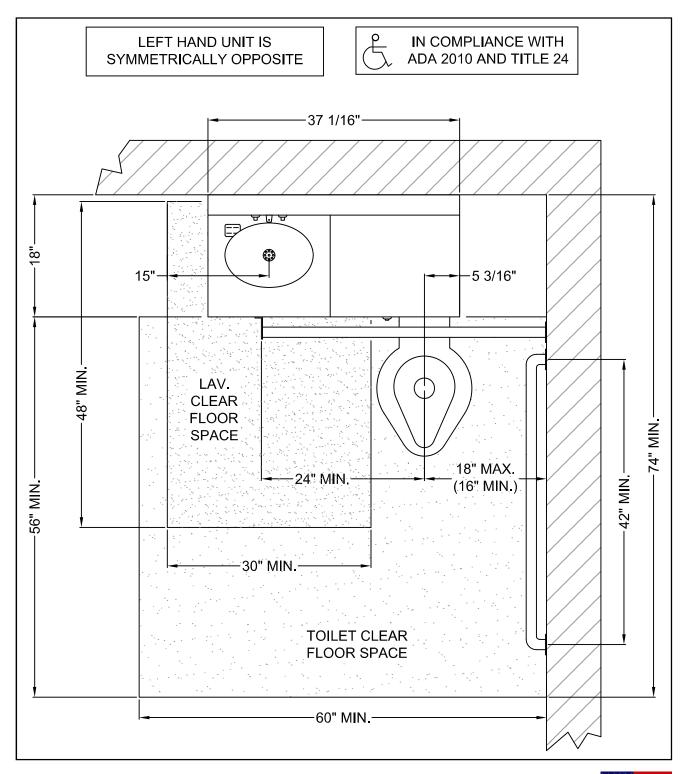


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Willoughby Industries - Supplemental

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3696 Series Handicap Combination Unit Layout



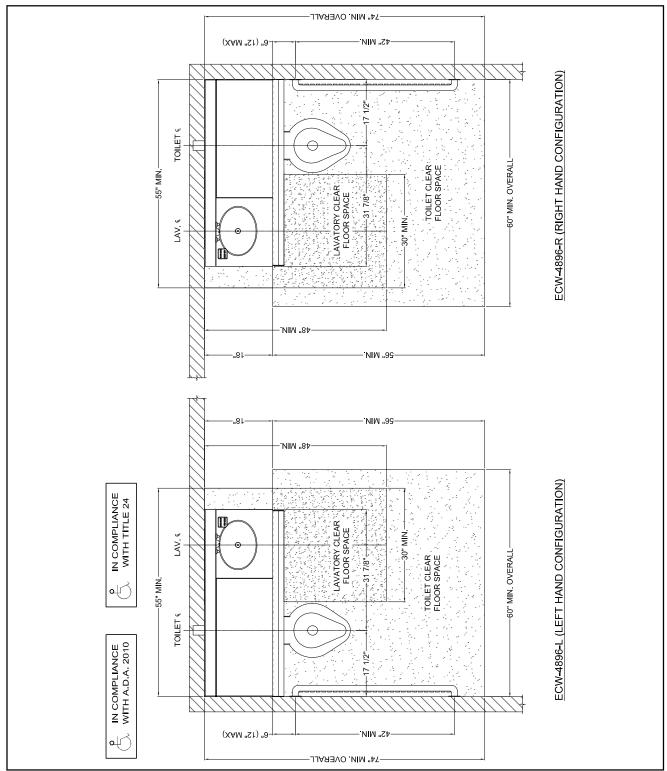
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Willoughby Industries - Supplemental

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4896 Series Handicap Combination Unit Layout

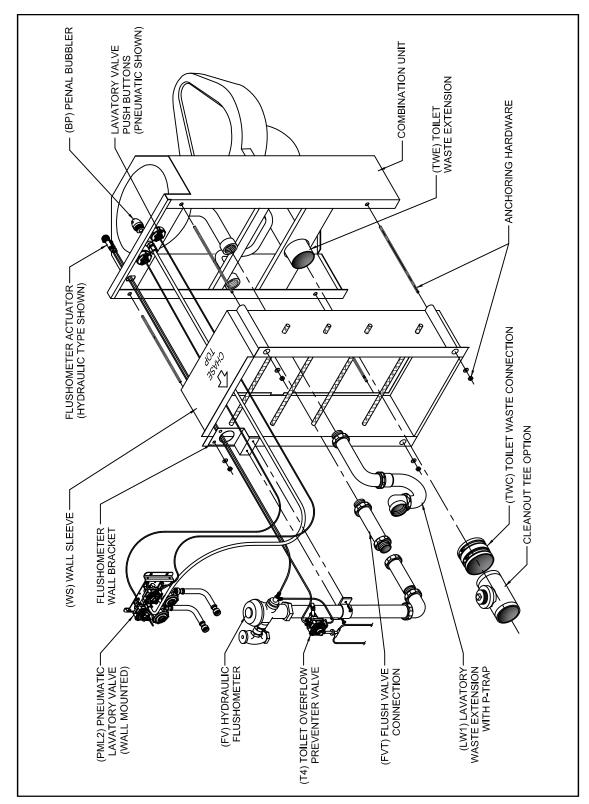


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Typical Combination Unit Installation





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Flush Valve Selection Chart

ECF-1546-C-ON COMBINATION ECF-1346-L/R-ON COMBINATION ECF-1846-C-ON-FA COMBINATION ECF-1846-L/R-ON COMBINATION ECF-1846-L/R-ON-FA FRONT ACCESS COMBINATION ECF-1897-L/R-ON COMBINATION ECF-1897-L/R-ON-FA FRONT ACCESS COMBINATION ECF-2046-L/R-ON COMBINATION ECF-2046-L/R-ON FRONT ACCESS COMBINATION ECF-2046-L/R-ON-FA FRONT ACCESS COMBINATION					ZORN ZORN	7 2 2 3	DELANY	DELANY
			9603	MBFW	Z-6603XL	ZH-6603XL	623	1223
			9603	MBFW	Z-6603XL	ZH-6603XL	623	1223
		0,	9603	MBFW	Z-6603XL	ZH-6603XL	623	1223
		-	950	MBPM	N/A	ZH-6150XL	N/A	1233
		0,	9603	MBFW	Z-6603XL	ZH-6603XL	603	1223
			950	MBPM	N/A	ZH-6150XL	N/A	1233
			9603	MBFW	Z-6603XL	ZH-6603XL	603	1223
			950	MBPM	N/A	ZH-6150XL	N/A	1233
			9603	MBFW	Z-6603XL	ZH-6603XL	603	1223
			950	MBPM	N/A	ZH-6150XL	N/A	1233
			9603	MBFW	Z-6603XL	ZH-6603XL	603	1223
ECF-2845-L/R-ON-FA-HC HANDICAP COMBI W/ INTEGRAL,	FLUSH VLV	-	950	MBPM	N/A	ZH-6150XL	N/A	1233
ECF-2897-L/R-ON-FA-HC HANDICAP COMBI W/ INTEGRAL,	FLUSH VLV		950	MBPM	N/A	ZH-6150XL	N/A	1233
ECW-1545-L/R-ON-HC HANDICAP COMBINATION			9603	MBFW	Z-6603XL	ZH-6603XL	603	1223
z	603		8096	MBFW	Z-6603XL	ZH-6603XL	603	1223
	603		8003	MBFW	Z-6603XL	ZH-6603XL	603	1223
_	603		9603	MBFW	Z-6603XL	ZH-6603XL	603	1223
ECW-1546-L/R-OF COMBINATION	603		8096	MBFW	Z-6603XL	ZH-6603XL	603	1223
ECW-1846-C-ON COMBINATION	603		9603	MBFW	Z-6603XL	ZH-6603XL	603	1223
ECW-1846-C-ON-FA FRONT ACCESS COMBINATION			950	MBPM	N/A	ZH-6150XL	N/A	1233
ECW-1846-C-F COMBINATION	603		8096	MBFW	Z-6603XL	ZH-6603XL	623	1223
ECW-1846-L/R-ON COMBINATION	603		9603	MBFW	Z-6603XL	ZH-6603XL	623	1223
ECW-1846-L/R-ON-FA FRONT ACCESS COMBINATION			950	MBPM	N/A	ZH-6150XL	N/A	1233
ECW-1846-L/R-OF COMBINATION	603		8003	MBFW	Z-6603XL	ZH-6603XL	623	1223
			9603	MBFW	Z-6603XL	ZH-6603XL	623	1223
-FA			950	MBPM	N/A	ZH-6150XL	N/A	1233
	603	•	9603	MBFW	Z-6603XL	ZH-6603XL	623	1223
ECW-2046-L/R-ON COMBINATION			8003	MBFW	Z-6603XL	ZH-6603XL	623	1223
-FA			950	MBPM	N/A	ZH-6150XL	N/A	1233
ECW-2046-L/R-OF COMBINATION	603	-	8096	MBFW	Z-6603XL	ZH-6603XL	623	1223
ECW-2696-L/R-OF COMBINATION		-	6096	MBFW	Z-6603XL	ZH-6603XL	623	1223
ECW-3696-L/R-ON-FA-HC HANDICAP COMBI W/ INTEGRAL,	FEGRAL, FLUSH VLV N/A	-	950	MBPM	N/A	ZH-6150XL	N/A	1233
ECW-3696-L/R-OF-FA-HC HANDICAP COMBI W/ INTEGRAL, FLUSH VLV	FEGRAL, FLUSH VLV N/A	-	950	MBPM	N/A	ZH-6150XL	N/A	1233
ETF-1490-FM-BS WATER CLOSET	611	-	6096	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETF-1490-FM-BS-10"-FA FRONT ACCESS WATER CLOSET	CLOSET 611	0,	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240

MADE IN THE U.S.A.

Delany low flow: add "1" suffix.

Sloan low flow: add "1.6" suffix (Exception: for model #110-1.6, use model #111)

Zurn low Flow: add "WS-1" suffix

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Flush Valve Selection Chart (cont.)

FLUSH VALVE	COMPATIBILITY CHART	MECH'L SLOAN	HYDRAULIC SLOAN	HYDRAULIC ACTUATOR SLOAN	MECH'L ZURN	HYDRAULIC ZURN	MECH'L DELANY	HYDRAULIC DELANY
ETF-1490-FM-BS-12"-FA	FRONT ACCESS COMBINATION	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETF-1490-FM-BS-FA	FRONT ACCESS COMBINATION	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETF-1490-FM-BS-HC	HANDICAP WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETF-1490-FM-BS-HC-FA	HANDICAP FRONT ACCESS WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETF-1490-FM-TS	WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETF-1490-FM-TS-10"-FA	FRONT ACCESS WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETF-1490-FM-TS-12"-FA	FRONT ACCESS WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETF-1490-FM-TS-FA	FRONT ACCESS WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETF-1490-FM-TS-HC	HANDICAP WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETF-1490-FM-TS-HC-FA	HANDICAP FRONT ACCESS WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETW-1445-FM-BS-HC-L/R	HANDICAP WATER CLOSET	N/A	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETW-1445-OF-BS-HC-L/R	HANDICAP WATER CLOSET	N/A	8096	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETW-1490-CM-BS	WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETW-1490-CM-TS	WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETW-1490-ES	WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETW-1490-FM-BS	WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETW-1490-FM-BS-FA	FRONT ACCESS WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETW-1490-FM-BS-HC	HANDICAP WATER CLOSET	611	8096	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETW-1490-FM-BS-HC-FA	HANDICAP FRONT ACCESS WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETW-1490-FM-TS	WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETW-1490-FM-TS-FA	FRONT ACCESS WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETW-1490-FM-TS-HC	HANDICAP WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETW-1490-FM-TS-HC-FA	HANDICAP FRONT ACCESS WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETW-1490-OF-BS	WATER CLOSET	611	910	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETW-1490-OF-TS	WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETWS-1490-CM-BS	WATER CLOSET	611	8093	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETWS-1490-CM-TS	WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETWS-1490-FM-BS	WATER CLOSET	611	8093	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETWS-1490-FM-BS-FA	FRONT ACCESS WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETWS-1490-FM-BS-FA-HC	HANDICAP FRONT ACCESS WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETWS-1490-FM-BS-HC	HANDICAP WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETWS-1490-FM-TS	WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETWS-1490-FM-TS-FA	FRONT ACCESS WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETWS-1490-FM-TS-FA-HC	HANDICAP FRONT ACCESS WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETWS-1490-FM-TS-HC	HANDICAP WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETWS-1490-1490-OF-BS	WATER CLOSET	611	8096	MBFW	Z-6611XL	ZH-6603XL	540	1240

When specifying low flow toilets, the accompanying flush valve must be a low flow flush valve: **Delany** low flow: add "1" suffix.

Sloan low flow: add "1.6" suffix (Exception: for model #110-1.6, use model #111)

Zurn low Flow: add "WS-1" suffix



WILLOUGHBY

Flush Valve Selection Chart (cont.)

HYDRAULIC DELANY	1239	1238	1238	1247	1247	1239	1239	1276	1276	1275	1275	1276	1275	1247	1247	1239	1239	1276	1276	1275	1275	1276	1275	1275	1276	1275	1275	1276	1275	1275	1247	1248	1248	1247	1248	1248
MECH'L DELANY	439	538	538	547	547	439	439	929	929	575	575	929	545	547	547	439	439	929	929	575	575	929	575	575	9/9	575	575	9/9	575	575	547	448	448	547	448	448
HYDRAULIC ZURN	ZH-6606XL	ZH-6150XL	-	TX6099-HZ	TX6099-HZ	ZH-6610XL	ZH-6610XL	ZH-6613XL	ZH-6613XL	ZH-6614XL	ZH-6614XL	ZH-6613XL	ZH-6614XL	TX6099-HZ	TX6099-HZ	ZH-6610XL	ZH-6610XL	ZH-6613XL	ZH-6613XL	ZH-6614XL	ZH-6614XL	ZH-6613XL	ZH-6614XL	ZH-6614XL	ZH-6613XL	ZH-6614XL	ZH-6614XL	ZH-6613XL	ZH-6614XL	ZH-6614XL	TX6099-HZ	ZH-6610XL	ZH-6610XL	TX6099-HZ	ZH-6610XL	ZH-6610XL
MECH'L ZURN	Z-6606XL	Z-6150XL	Z-6150XL	Tx6099-Z	TX6099-Z	Z-6610XL	Z-6610XL	Z-6613XL	Z-6613XL	Z-6614XL	Z-6614XL	Z-6613XL	Z-6614XL	Z-6609XL	TX6099-Z	Z-6610XL	Z-6610XL	Z-6613XL	Z-6613XL	Z-6614XL	Z-6614XL	Z-6613XL	Z-6614XL	Z-6614XL	Z-6613XL	Z-6614XL	Z-6614XL	Z-6613XL	Z-6614XL	Z-6614XL	TX6099-Z	Z-6610XL	Z-6610XL	TX6099-Z	Z-6610XL	Z-6610XL
HYDRAULIC ACTUATOR SLOAN	MBFW	MBPH	MBPH	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW	MBFW
	910	910	910	6096	6096	1-086	1 - 086	9613	9613	986	986	9613	986	6096	6096	1 - 086	1 - 086	9613	9613	986	986	9613	986	986	9613	986	986	9613	986	986	6096	1-086	1 - 086	6096	1-086	1-086
MECH'L SLOAN	110	110	110	609	609	180 - T	180 - T	613	613	186	186	613	186	609	609	180 - T	180 - T	613	613	186	186	613	186	186	613	186	186	613	186	186	609	180 - T	180 - T	609	180 - T	180 - T
COMPATIBILITY CHART	WATER CLOSET	DETOX UNIT LESS FLANGES	DETOX UNIT WITH FLANGES	URINAL	FRONT ACCESS URINAL	URINAL	FRONT ACCESS URINAL	URINAL	FRONT ACCESS URINAL	URINAL	FRONT ACCESS URINAL	URINAL	URINAL	URINAL	FRONT ACCESS URINAL	URINAL	FRONT ACCESS URINAL	URINAL	FRONT ACCESS URINAL	URINAL	FRONT ACCESS URINAL	URINAL	URINAL	URINAL	URINAL	URINAL	URINAL	URINAL	URINAL	URINAL	URINAL	URINAL	URINAL	URINAL	URINAL	URINAL
FLUSH VALVE	ETWS-1490-0F-TS	FD-1400-LF	FD-1400-WF	UW-1412-BJ-BS	UW-1412-BJ-BS-FA	UW-1412-BJ-TS	UW-1412-BJ-TS-FA	UW-1412-WO-BS	UW-1412-WO-BS-FA	UW-1412-WO-TS	UW-1412-WO-TS-FA	UW-1438-BS	UW-1438-TS	UW-1814BJ-BS	UW-1814-BJ-BS-FA	UW-1814-BJ-TS	UW-1814-BJ-TS-FA	UW-1814-WO-BS	UW-1814-WO-BS-FA	UW-1814-WO-TS	UW-1814-WO-TS-FA	UW-1836-BS	UW-1836-MPT	UW-1836-TS	UW-1848-BS	UW-1848-MPT	UW-1848-TS	UW-1860-BS	UW-1860-MPT	UW-1860-TS	UW-1872-BS	UW-1872-MPT	UW-1872-TS	UW-1896-BS	UW-1896-MPT	UW-1896-TS

When specifying low flow toilets, the accompanying flush valve must be a low flow flush valve:

Delany low flow: add "1" suffix.

Sloan low flow: add "1.6" suffix (Exception: for model #110-1.6, use model #111)

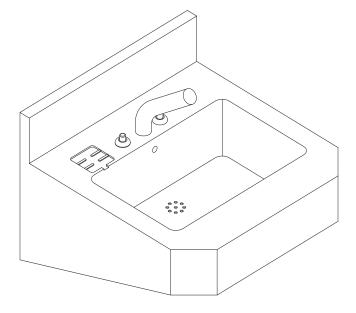
Zurn low Flow: add "WS-1" suffix



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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 pneumatic push buttons, standard lav. overflow vent, and chrome plated removable P-trap

Use the following Willoughby Model Number: ES-1015-HC-DMS-PML2-PPB-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

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:

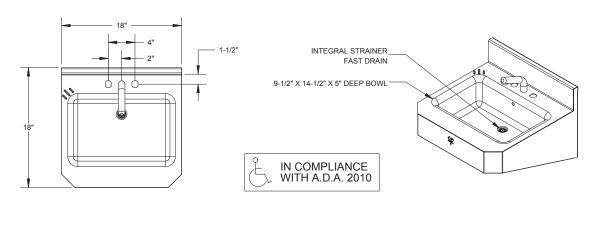
When the lavatory is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

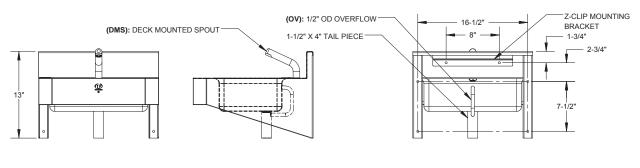
<u>Note:</u> Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.



1.) Lavatory Model: 5.) Hole Punching Selection (Faucet by Others): ☐ 4CC ☐ ES-1015-HC 18" Handicap Stainless Steel 4" Centerset, Ø1" Holes (Specify 2 or 3 holes: Commercial Lavatory ☐ 8CC 8" Centerset, Ø1" Holes (Specify 2 or 3 holes:_ ☐ 1CC Center Shank, (1) Ø1" Hole 2.) Spout/Bubbler Selection: ☐ SP Special Punching (Specify hole punching dim.) ☐ DMS **Deck Mounted Spout** ☐ DMBH Deck Mounted Hemispherical Bubbler 6.) Lavatory Waste Options: 3.) Valve Selection: □ TT Chrome Plated Removable P-Trap ☐ TE ■ NV No Valve, No Spout / Bubbler- Faucet by Others Trap Enclosure (Select Hole Punching if needed) □ OV Overflow Vent (Standard) PSL1 Single Temp. Pneumatic Non-metering ☐ PSL2 Dual Temp. Pneumatic Non-metering 7.) Other Options: ☐ PML1 Single Temp. Pneumatic Metering ■ TMV In-line Thermostatic Mixing Valve ☐ PML2 Dual Temp. Pneumatic Metering ☐ DC Decorator Color (Fixture exterior only - White) ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard) □ E1L1 Single Temp. Electronic (w/ Pneutronic Control)* ■ E1L2 Dual Temp. Electronic (w/ Pneutronic Control)* ☐ TF24P Plug-in Transformer, 110VAC to 24VAC* Other 4.) Valve Actuation: ☐ Other □ PPB Pneumatic Push Buttons □ PBH 8.) Electronic Controls* (Must Use Electronic Push Button): Ligature-resistant Pneumatic Push Buttons ☐ EPB ■ WUCC-3010 Pneutronic Electronic Push Buttons* Ligature-resistant Electronic Push Buttons* (The WUCC-3010 Control can be used to pair a Lavatory with a Toilet) EPBH PZPB Piezo Electronic Push Buttons* *(Req. 110V power through ground fault interrupter (GFCI) receptacle)

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



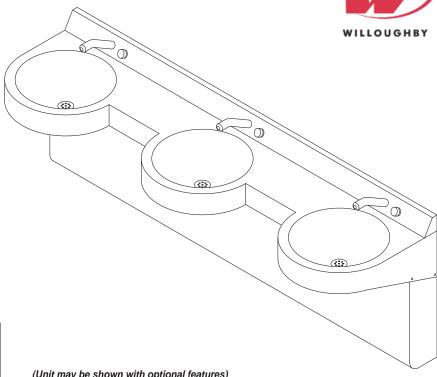


VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.





CWLDR Series Round Front Stainless Steel Lavatory Deck





(Unit may be shown with optional features)

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 layatory bowls
- Basin overflows
- Fast drains with overflow vents
- Elbow waste (1-1/2" F.I.P.) w/ tailpiece-type connections for 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.

1.) Lavator	y Model:	6.) Hole Pu	unching Selection (Faucet by Others):
☐ CWLDR	Round Front Stainless Steel Lavatory Deck	□ 1CC	Center Shank, (1) Ø1" Hole (Requires offset mounting)
		□ SP	Special Punching (Specify hole punching dim.)
•	r of Wash Stations:		SP:
_	(19" Width)		
2	(49" Width)	7.) Lavatoi	ry Waste Options:
□ 3	(79" Width)	LE LE	Less Trap Enclosure
4	(109" Width)	OV	Overflow Vent (Standard)
3.) Lavator	y Mounting:	8.) Other C	Options:
□ OF	Off-floor Mounted	KPLD	Lavatory Kick Plate
		■ TMV	In-line Thermostatic Mixing Valve
4.) Spout S	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
■ BMS	Backsplash Mounted Spouts, 0.5 GPM	JR	Junior Height (31" Rim Height, JR. ADA Compliant)
		☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC* (Standard)
5.) Valve S	election:	☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*
■ NV	No Valve, No Spout- Faucet by Others (Select Hole Punching if needed)	Other	<u> </u>
PLPB1	Pneumatic Palm Push Buttons for Single Temperature	Other	
	Pneumatic Metering		
PZPB1	Piezo Electronic Push Buttons for Single Temperature	9.) Electro	nic Controls* (Must Use Electronic Push Button):
	Electronic (w/ Pneutronic Control)*	WUCC-	3010 Pneutronic
☐ IR	Infrared Sensors, Hard-wired (Must select (DMS) Deck Mounted Spout)*	(The WI	UCC-3010 Control can be used to pair a Lavatory with a Toilet)
□ во	Infrared Sensors, Battery Operated (Must select (DMS) Deck Mounted Spout)	•	110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: Company: _ Wall Thickness: Wall Type: IN COMPLIANCE WITH A.D.A. 2010 -(PLPB) PALM PUSH BUTTONS VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN 21 1/2" WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION. -(BMS) BACKSPLASH MOUNTED SPOUT Ø15-3/4" LAV. BOWLS PLAN VIEW (6) Ø9/16" MOUNTING HOLES-(MOUNTING HARDWARE BY OTHERS) 30° (6) Ø9/16" x 1-1/8" MOUNTING SLOTS-(MOUNTING HARDWARE BY OTHERS) 9 1/2" 'Z' CLIP MOUNTING-(MOUNTING HARDWARE BY OTHERS, (4) PLACES) (OV) OVERFLOW VENT 3 1/2" 34" Å.F.F. **--**2 1/2" (MAX ADULT Ø1-1/2" LAV. WASTE-('P' TRAP BY OTHERS) ADA) REMOVABLE PIPE SHROUDS -(3) Ø5/16" MOUNTING HOLES IN 1" TURNDOWN, EACH SHROUD W/ SECURITY SCREWS

> visit our website at www.willoughby-ind.com 5105 West 78th Street ● Indianapolis, IN. 46268

(ANCHORING HARDWARE BY OTHERS)

FRONT VIEW

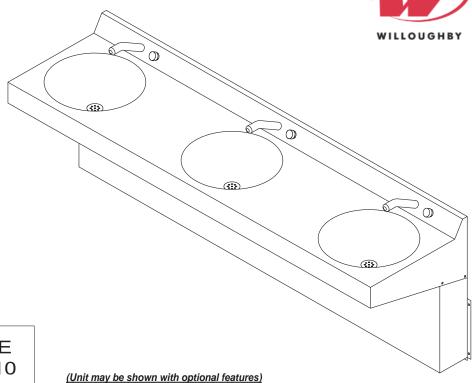
(317) 875-0830 • Fax: (317) 875-0837 • (800) 428-4065

Ø1/2" H&C WATER SUPPLIES

SIDE VIEW



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 (1-1/2" F.I.P.) w/ tailpiece-type connections for 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).

<u>Note:</u> Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

1.) Lavato	ry Model:	7.) Hole Pu	unching Selection (Faucet by Others):
CWLD	Straight Front Stainless Steel Lavatory Deck	☐ 4CC	4" Centerset, Ø1" Holes*
			(Requires Oval bowl, specify 2 or 3 holes:)
2.) Numbe	er of Wash Stations:	□ 8CC	8" Centerset, Ø1" Holes*
1	(24" Width)		(Requires Oval bowl, specify 2 or 3 holes:)
2	(48" Width)	☐ 1CC	Center Shank, (1) Ø1" Hole
□ 3	(72" Width)	☐ SP	Special Punching (Specify hole punching dim.)
<u> </u>	(96" Width)		SP:
3.) Lavato	ry Mounting:	8.) Lavato	ry Waste Options:
☐ OF	Off-floor Mounted	☐ LE	Less Trap Enclosure
_		□ ov	Overflow Vent (Standard)
4.) Spout	Selection:		
☐ 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
_	1 , , , , , ,	☐ TMV	In-line Thermostatic Mixing Valve
5.) Valve S	Selection:	DC	Decorator Color (Fixture exterior only - White)
☐ NV	No Valve, No Spout- Faucet by Others (Select Hole Punching if needed)	LSDM	,
☐ PLPB1	,	☐ JR	Junior Height (31" Rim Height, JR. ADA Compliant)
_	Pneumatic Metering		Hard-wired Transformer, 110VAC to 24VAC* (Standard)
☐ PZPB1	Piezo Electronic Push Buttons for Single Temperature		Plug-in Transformer, 110VAC to 24VAC*
_	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	_	
	······································	,	onic Controls* (Must Use Electronic Push Button):
6.) Lavato	rv Bowl:	☐ WUCC-	· · · · · · · · · · · · · · · · · · ·
RND	Round Bowl	_	UCC-3010 Control can be used to pair a Lavatory with a Toilet)
OVL	Oval Bowl	,	110V power through ground fault interrupter (GFCI) receptacle)
_ 			
	• , 	Date:	
Wall Th	nickness: Wall Type:		_
		·	

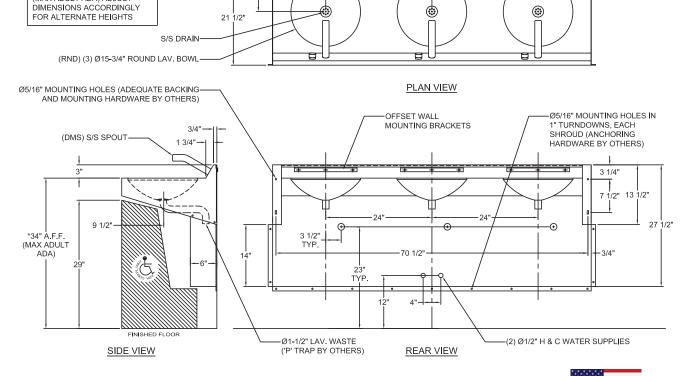
9 3/8"



IN COMPLIANCE

WITH A.D.A. 2010

*NOTE: 34" RIM HEIGHT SHOWN (MAX ADULT ADA) ADJUST



24" TYP.

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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, and mineral fillers. 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.

Aguasurf® 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.



1.) Base Model Number:

☐ WEL-2311 Aquasurf® Single Station Executive Lavatory

2.) Hole Drilling Selection (Faucet by Others):

■ NV No Faucet Holes (Standard)

4" Centerset, Ø1" Holes (Specify 2 or 3 holes:____

■ 8CC 8" Centerset, Ø1" Holes (Specify 2 or 3 holes:___)

☐ 1CC Center Shank, (1) Ø1" Hole

☐ SP Special Drilling (Specify hole drilling dim.)

SP: _____

3.) Solid Surface Colors:

■ BN Bone

☐ GW Glacier White

☐ GG Gray Granite

☐ SS Sandstone

□ WG White Granite□ BG Black Granite

□ BG□ Black Granite□ NBNocturnal Blue

RC Red Coral

☐ SG Sea Green

4.) Options:

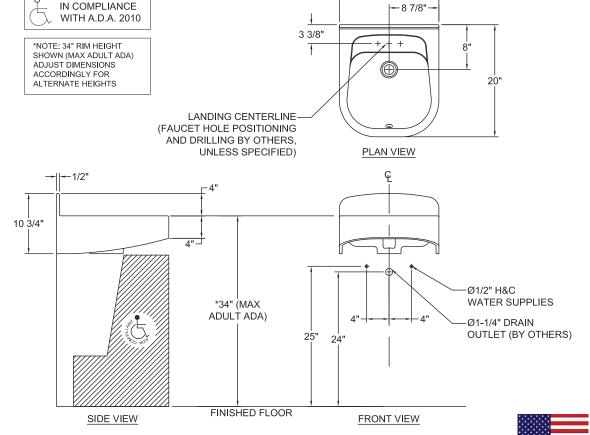
☐ TE Trap Enclosure

Other ____

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

17 3/4"-

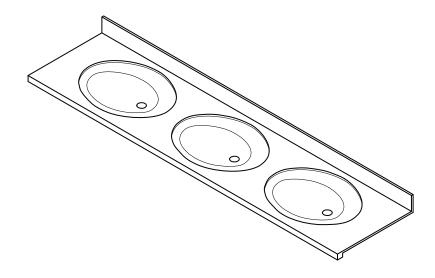
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.



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WILLDUIGHRY

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, and mineral fillers. 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.

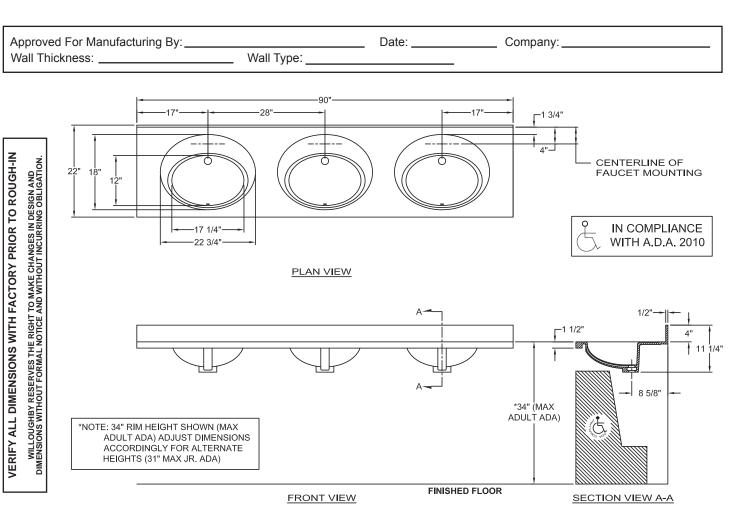
Optional Features:

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).

1.) Lavatory Model: ■ WAD-2230 AquaDeck 2230 Series, Square Front (1-1/2"), Solid Surface Lavatory Deck 2.) Number of Wash Stations: 1 **2 3** 3.) Hole Drilling Selection (Faucet by Others): ■ NV No Faucet Holes (Standard) ☐ 4CC 4" Centerset, Ø1" Holes (Specify 2 or 3 holes:_ ☐ 8CC 8" Centerset, Ø1" Holes (Specify 2 or 3 holes: ☐ 1CC Center Shank, (1) Ø1" Hole □ SP Special Drilling (Specify hole drilling dim.) 4.) Solid Surface Colors: ■ BN Bone ☐ GW Glacier White ☐ GG **Gray Granite** ☐ SS Sandstone ☐ WG White Granite ☐ BG Black Granite ■ NB Nocturnal Blue

5.) Edge Style: Square BLN Bullnos BV Beveled	
6.) Options:	
LSDM	Liquid Soap Dispensers- Deck-mounted Spout and Bottle
☐ JR	Junior Height, 31" Rim Height (JR. ADA Compliant)
WADSS-BRKT-F	R Wall Mounting Bracket- Right
WADSS-BRKT-L	Wall Mounting Bracket- Left
■ WADSS-0422R	Right Side Splash
■ WADSS-0422L	Left Side Splash
■ W-SS-DS	Stainless Steel Modular Drain Shroud
Other	
Other	



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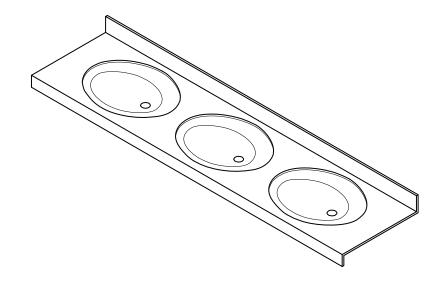
☐ RC

☐ SG

Red Coral

Sea Green

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, and mineral fillers. 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:

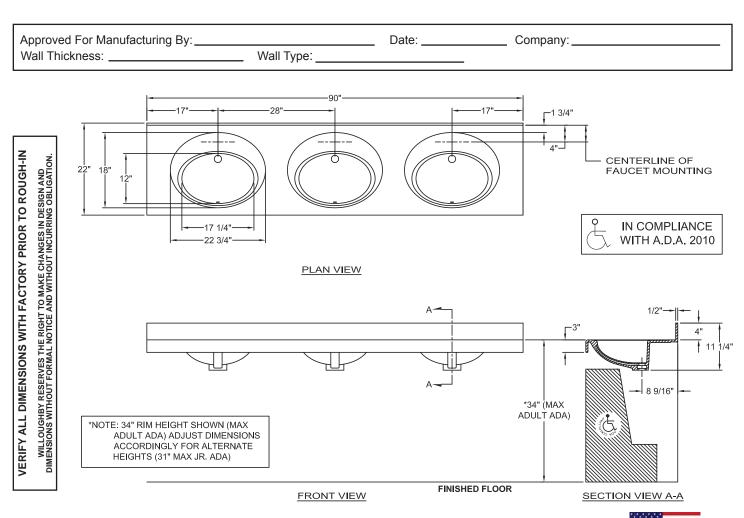
When the lavatory deck is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Optional Features:

AguaDeck 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).

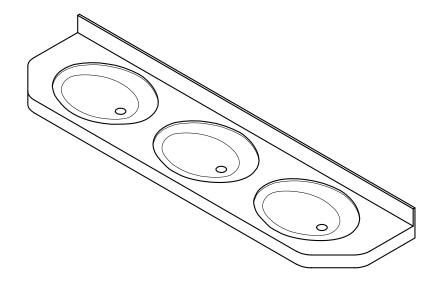
1.) Lavatory	Model:				5.) Edge S	Style:	
■ WAD-223	35	AquaDeck	2235 Series, Square Front (3"),	[Square-e	eased Front Edge (Standard)
	;	Solid Surfa	ace Lavatory Deck	Γ	■ BLN	Bullnose	d
				[⊒ BV	Beveled	
2.) Number of	of Wash S	tations:					
<u> </u>	2 [] 3	4	(6.) Option	s:	
				[LSDM		Liquid Soap Dispensers- Deck-mounted Spout and Bottle
3.) Hole Drill	ling Selec	tion (Fau	cet by Others):	[」 JR		Junior Height, 31" Rim Height (JR. ADA Compliant)
■ NV I	No Faucet	Holes (St	andard)	[☐ WADS	S-BRKT-R	Wall Mounting Bracket- Right
☐ 4CC 4	4" Centers	et, Ø1" Ho	oles (Specify 2 or 3 holes:)	[☐ WADS	S-BRKT-L	Wall Mounting Bracket- Left
□ 8CC 8	8" Centers	et, Ø1" Ho	oles (Specify 2 or 3 holes:)	[☐ WADS	S-0422R	Right Side Splash
☐ 1CC (Center Sha	ank, (1) Ø	1" Hole	[☐ WADS	S-0422L	Left Side Splash
☐ SP	Special Dr	illing (Spe	cify hole drilling dim.)	[WAD-A	PIS-422R	Integral Right Side Apron
;	SP:			[WAD-A	PIS-422L	Integral Left Side Apron
				[W-SS-	DS	Stainless Steel Modular Drain Shroud
4.) Solid Sur	rface Colo	rs:		[Other		
■ BN I	Bone			[Other		
☐ GW (Glacier Wh	nite					
☐ GG (Gray Gran	ite					
☐ SS S	Sandstone	;					
☐ WG	White Gra	nite					
☐ BG I	Black Gran	nite					
☐ NB I	Nocturnal	Blue					
☐ RC I	Red Coral						
☐ SG	Sea Greer	ı					



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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, and mineral fillers. 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:

- 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.

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).

1.) Lavator	y Model:			5.) Edge S	ityle:	
☐ WAD-22	240	AquaDecl	c 2240 Series, Angled Front,		Square-e	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	ection (Fau	icet 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" Cente	rset, Ø1" H	oles (Specify 2 or 3 holes:)	☐ WADS	S-BRKT-L	Wall Mounting Bracket- Left
☐ 8CC	8" Cente	rset, Ø1" H	oles (Specify 2 or 3 holes:)	☐ WADS	S-0422R	Right Side Splash
☐ 1CC	Center S	hank, (1) Ø	วา" Hole	☐ WADS	S-0422L	Left Side Splash
□ SP	Special D	Drilling (Spe	ecify hole drilling dim.)	■ WAD-A	PIS-422R	Integral Right Side Apron
	SP:			■ WAD-A	PIS-422L	Integral Left Side Apron
				■ W-SS-I	DS	Stainless Steel Modular Drain Shroud
4.) Solid S	urface Co	lors:		Other		
■ BN	Bone			Other		
☐ GW	Glacier V	Vhite				
☐ GG	Gray Gra	anite				
□ SS	Sandstor	ne				
☐ WG	White Gr	anite				
☐ BG	Black Gra	anite				
■ NB	Nocturna	l Blue				
RC RC	Red Cora	al				
☐ SG	Sea Gree	en				

Approved For Manufacturing By: Date: _ Company: Wall Thickness: Wall Type: -28" **Г**1 3/4" 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. CENTERLINE OF FAUCET MOUNTING IN COMPLIANCE -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

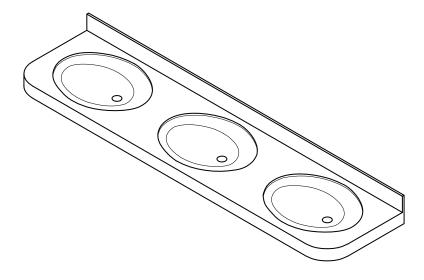
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AquaDeck 2250 Series Radiused Front Solid Surface Lavatory Deck





(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

AquaDeck 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, and mineral fillers. 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:

- 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.

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).

1.) Lavato	ry Model:				5.) Edge	Style:	
☐ WAD-2	250	AquaDec	k 2250 Series, Radiused F	ront,		Square-	eased Front Edge (Standard)
		Solid Surf	face Lavatory Deck		BLN	Bullnose	ed
					BV	Beveled	l
2.) Numbe	er of Wash	Stations:					
1	2	□ 3	□ 4		6.) Optio	ns:	
					LSDN	1	Liquid Soap Dispensers- Deck-mounted Spout and Bottle
3.) Hole D	rilling Sele	ection (Fau	icet by Others):		JR		Junior Height, 31" Rim Height (JR. ADA Compliant)
■ NV	No Fauc	et Holes (S	tandard)		■ WAD	SS-BRKT-R	Wall Mounting Bracket- Right
4CC	4" Cente	rset, Ø1" H	loles (Specify 2 or 3 holes:)	■ WAD	SS-BRKT-L	Wall Mounting Bracket- Left
☐ 8CC	8" Cente	rset, Ø1" H	loles (Specify 2 or 3 holes:)	■ WAD	SS-0422R	Right Side Splash
☐ 1CC	Center S	hank, (1) Ø	01" Hole		WAD	SS-0422L	Left Side Splash
□ SP	Special [cial Drilling (Specify hole drilling dim.)			■ WAD	-APIS-422R	Integral Right Side Apron
	SP:				■ WAD	-APIS-422L	Integral Left Side Apron
					W-SS	S-DS	Stainless Steel Modular Drain Shroud
4.) Solid S	Surface Co	lors:			Other		
■ BN	Bone				Other		
☐ GW	Glacier V	Vhite					
☐ GG	Gray 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					

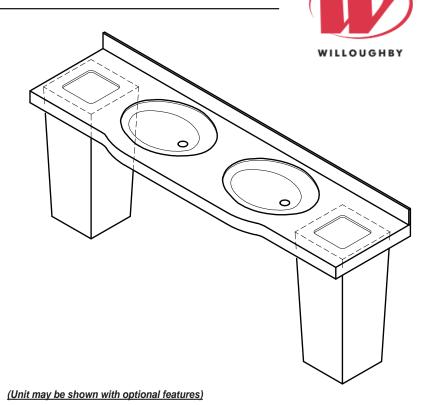
Approved For Manufacturing By: Date: _ Company: Wall Thickness: Wall Type: -28' **Г**1 3/4" VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION. CENTERLINE OF FAUCET MOUNTING IN COMPLIANCE -22 3/4 R6" ROUND WITH A.D.A. 2010 **PLAN VIEW** A-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 2260 Series Contoured Front Solid Surface Lavatory Deck





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 Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, and mineral fillers. 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

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

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 AquaDeck 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.

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).

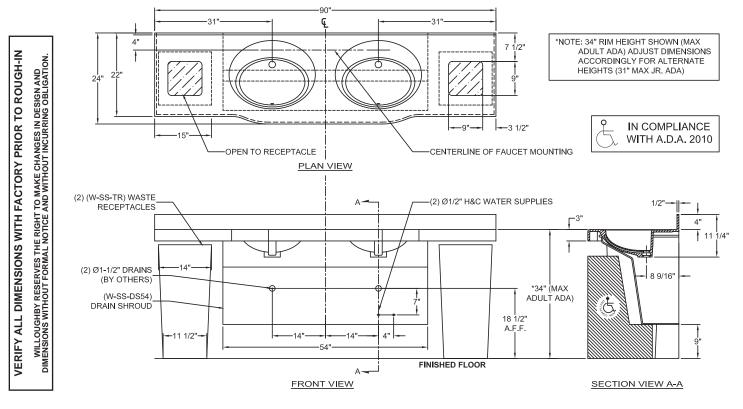
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1.)	Lavato	ry Model:		6.) Edge S	tyle:	
	WAD-2	260	AquaDeck 2260 Series, Contoured Front,		1	Square-	eased Front Edge (Standard)
			Solid Surface Lavatory Deck		BLN	Bullnose	ed
					BV	Beveled	
2.)	Numbe	r of Wash	Stations:				
	1	2		7.) Option	s:	
					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-7	ΓR	(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	ction (Faucet by Others):	_	WADS	S-0422L	Left Side Splash
•	NV	-	et Holes (Standard)		I WAD-A	PIS-422R	•
_	4CC	4" Center	rset, Ø1" Holes (Specify 2 or 3 holes:)	_	I WAD-A	PIS-422L	Integral Left Side Apron
	8CC		rset, Ø1" Holes (Specify 2 or 3 holes:		W-SS-[DS54	54" Stainless Steel Modular Drain Shroud
_	1CC		hank, (1) Ø1" Hole	_	Other		
_	SP		Orilling (Specify hole drilling dim.)	_	Other		
_		SP:		_	-		
		Surface Col	lors:				
	BN	Bone					
	GW	Glacier V					
_	GG	Gray Gra					
_	SS	Sandstor					
_	WG	White Gr					
	BG	Black Gra					
_	NB	Nocturna					
	RC	Red Cora	al				
	SG	Sea Gree	en				
_							
1	Annrov	ed For M	lanufacturing By:		Date.		Company:

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

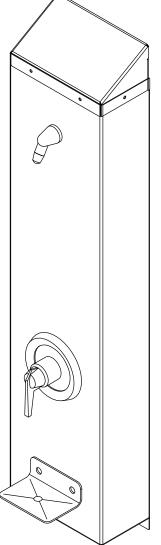




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CWSMS Series Surface Mounted Wall Shower



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.

(Unit may be shown with optional features)

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

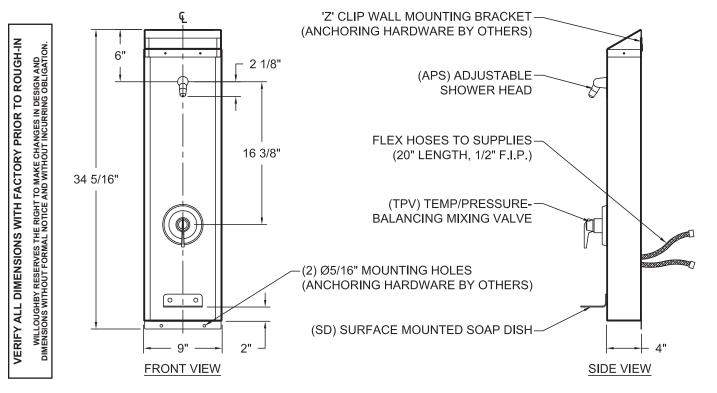
Example: To specify a Surface Mounted Wall Shower with temp./pressure-balancing mixing valve, standard 2.5 GPM flow rate, APS adjustable vandal-resistant shower head, and surface mounted soap dish

Use the following Willoughby Model Number:
CWSMS-TPV-2.5-APS-SD



1.) Base M	odel Number:	5.) Electro	nic Control* (Must Use Electronic Push Button):
☐ CWSMS	S Surface Mounted Wall Shower	WUSC-	2200 WUSC-2400 Pneutronic
2.) Valve S	selection:	6.) Shower	Head Selection:
■ NV	No Valve	APS	Adjustable Vandal-resistant Shower Head
☐ PML1	Single Temp. Pneumatic Metering	■ NPS	Non-Adjustable Vandal-resistant Shower Head
☐ PML2	Dual Temp. Pneumatic Metering	UBJ	Universal Ball Joint Shower Head
□ E1L1	Single Temp. Electronic (w/ Pneutronic Control)*	☐ LBJ	Lockable Ball Joint Shower Head
☐ E1L2	Dual Temp. Electronic (w/ Pneutronic Control)*	□ CSH	Ligature-resistant Shower Head
□ PBV	Pressure-Balancing Mixing Valve		
■ TPV	Temperature/Pressure-Balancing Mixing Valve	7.) Other C	ptions:
■ TPLR	Ligature-resistant Temperature/Pressure-Balancing Mixing Valve	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC* (Standard)
□ SVC	Single Temp. Compression Valve	☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*
□ DVC	Dual Temp. Compression Valves	■ TMV	Inline Thermostatic Mixing Valve
		☐ SD	Surface Mounted Soap Dish
3.) Push B	utton Selection:	RD RD	Recessed Mounted Soap Dish
Pneumatic	or Electronic Valves Only:	☐ GB	Grab Bar (Wall Mounted, Specify Dimensions):
□ PPB	Pneumatic Push Buttons		
□ PBH	Ligature-resistant Pneumatic Push Buttons	□ PS	Pipe Shroud (Specify Length):
■ EPB	Electronic Push Buttons*		(Pipe Shroud option changes Riveted Sloped Top to Flat Top)
EPBH	Ligature-resistant Electronic Push Buttons*	Other	
□ PZPB	Piezo Electronic Push Buttons*	Other	
		_	V power through ground fault interrupter (GFCI) receptacle)
4.) Flow Ra	ates:	` .	
2.5 GPN	M (Standard) ☐ 2.0 GPM ☐ 1.5 GPM		

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



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CWSMS-HCA Series Handicap Accessible Surface Mounted Wall Shower



Recommended Specifications

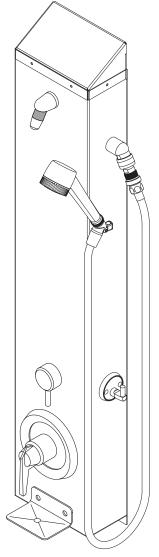
Handicap Accessible, Surface Mounted Wall Shower shall be: Willoughby Model No. **CWSMS-HCA** (Select from model number and options list on next page)

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

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 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

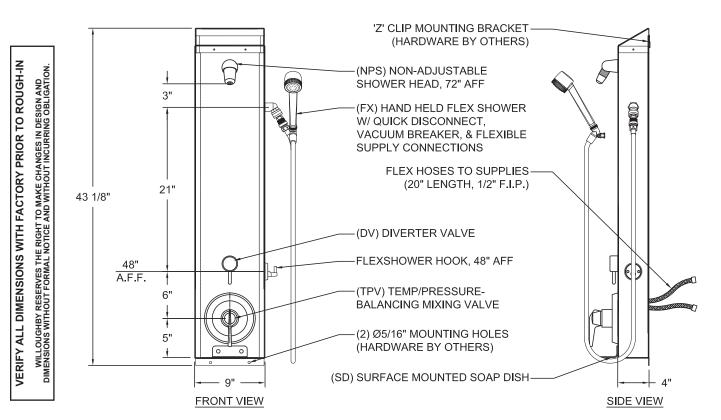
Use the following Willoughby Model Number: CWSMS-HCA-TPV-DV-2.5-APS-FX-SD

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.)

1.) Base M	lodel Num	iber:	5.) Flow Rates:						
☐ CWSM	S-HCA	Handicap Accessible, Surface Mounted Wall Shower	☐ 2.5 GPI	M (Standard) 2.0 GPM 1.5 GPM					
2.) Valve S	Selection:		,	nic Control* (Must Use Electronic Push Button):					
■ NV	No Valve		WUSC-	2200 WUSC-2400 Pneutronic					
PML1	Single Te	emp. Pneumatic Metering							
PML2	Dual Ten	np. Pneumatic Metering	7.) Shower	Head Selection:					
■ E1L1	Single Te	emp. Electronic (w/ Pneutronic Control)*	APS	Adjustable Vandal-resistant Shower Head					
■ E1L2	Dual Ten	mp. Electronic (w/ Pneutronic Control)*	■ NPS	Non-Adjustable Vandal-resistant Shower Head					
PBV	Pressure	e-Balancing Mixing Valve	UBJ	Universal Ball Joint Shower Head					
■ TPV	Tempera	ture Pressure-Balancing Mixing Valve	□ LBJ	Lockable Ball Joint Shower Head					
■ TPLR	Ligature-	resistant Temperature/Pressure-Balancing Mixing Valve	□ CSH	Ligature-resistant Shower Head					
☐ SVC	Single Te	emp. Compression Valve	□ FX	Hand-held Flexshower Head (w/ quick disconnect,					
DVC	Dual Ten	np. Compression Valves		vacuum breaker, and (1) hook)					
3.) Diverte	r Valve:		8.) Other C	Options:					
□ DV		Diverter Valve	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC* (Standard)					
DVLR		Ligature-resistant Diverter Valve	☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*					
☐ PML1-N	MA2	Two Single Temp. Pneumatic Metering Valves	■ TMV	Inline Thermostatic Mixing Valve					
		(Used to divert water flow to either upper, lower, or both	☐ HL	Hi-Lo (2 Hooks For Flexshower)					
		shower heads; for use with Mixing Valve options above)	☐ SLB24	24" Adjustable Slide Bar (for Flexshower)					
			☐ SD	Surface Mounted Soap Dish					
4.) Push B	utton Sel	ection:	RD RD	Recessed Mounted Soap Dish (Extends housing 5"					
Pneumatic	or Electro	nic Valves Only:		and will interfere with grab bar installation)					
☐ PPB	Pneuma	tic Push Buttons	☐ GB	Grab Bar (Wall Mounted, Specify Dimensions):					
☐ PBH	Ligature-	-resistant Pneumatic Push Buttons							
☐ EPB	Electroni	ic Push Buttons*	□ PS	Pipe Shroud (Specify Length):					
☐ EPBH	Ligature-	-resistant Electronic Push Buttons*	_	(Pipe Shroud option changes Riveted Sloped Top to Flat Top)					
☐ PZPB	Piezo El	ectronic Push Buttons*	Other						
_			Other						
			*(Req. 11	OV power through ground fault interrupter (GFCI) receptacle)					
Annroy	ed For M	//anufacturing By:	Date:	Company:					
				Oompany					
ı vvali ir	iickness:	: Wall Type:							



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CWSMS-HCA-WH Series Wide Housing Handicap Accessible Surface Mounted Wall Shower



Recommended Specifications

Wide Housing, Handicap Accessible, Surface Mounted Wall Shower shall be:

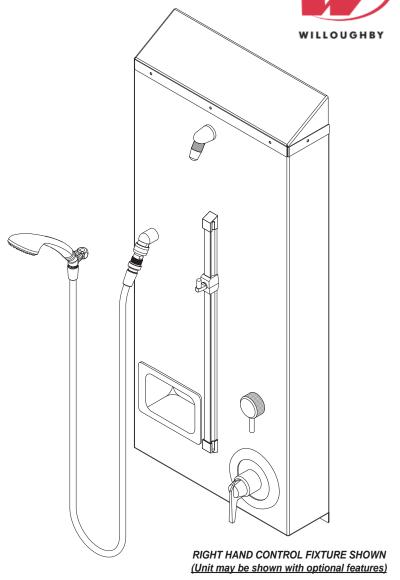
Willoughby Model No. **CWSMS-HCA-WH** (Select from model number and options list on next page)

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 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

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 a Wide Housing, Handicap Accessible, Surface Mounted Wall Shower with Right Hand controls, temp/pressure-balancing valve, diverter valve, 2.0 GPM flow rate, APS and FX shower heads, 24" Flexshower slide bar, and recessed soap dish

Use the following Willoughby Model Number: CWSMS-HCA-WH-R-TPV-DV-2.0-APS-FX-SLB24-RD

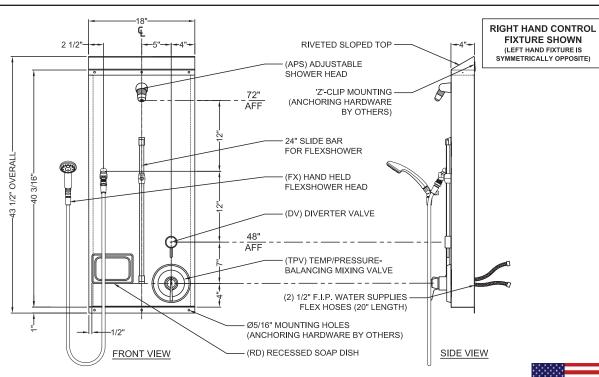
Handicap Accessible:

The CWSMS-HCA-WH 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.)

1.) Base N	lodel Num	ber:		7.)	Electron	nic Contro	ol* (Must Use	Electron	nic Push Button):
☐ CWSM	_		Wide Housing, Handicap Accessible, Surface Mounted Wall Shower		WUSC-2	2200	☐ WUSC-2	400	☐ Pneutronic
				8.)	Shower	Head Sel	lection:		
2.) Panel	Orientation	(Must Spe	cify):		APS	Adjustab	le Vandal-resi	istant Sho	ower Head
□ L	Left Hand		•		NPS				t Shower Head
□ R	Right Hand	d Controls		$\overline{\Box}$	UBJ	Universa	al Ball Joint Sh	nower Hea	ad
_	3			_	LBJ	Lockable	Ball Joint Sh	ower Hea	ad
3.) Valve S	Selection:			_	CSH		resistant Sho		
□ NV	No Valve			_	FX	•			/ quick disconnect,
☐ PML1			atic Metering	_			breaker, and (,
☐ PML2	•	np. Pneumat	•		2HD			. , ,	aces (FX) Flexshower
☐ E1L1		•	nic (w/ Pneutronic Control)*	_					fixed Shower Head)
☐ E1L2	•	•	c (w/ Pneutronic Control)*					00.00.00	
☐ PBV		•	Mixing Valve	91	Ontiona	l Shower	Seat:		
☐ TPV		•	ncing Mixing Valve		FSSL	. 00		tainless S	iteel Folding Shower Seat
TPLR			nperature/Pressure-Balancing Mixing Valve	_	FSSR				Steel Folding Shower Seat
SVC	•		ession Valve	_	PFSSL				ainless Steel Folding Shower Seat
DVC	•	np. Compres		_	PFSSR				Stainless Steel Folding Shower Seat
	Dual lell	ip. Compres	SIOTI VAIVES	_	PHSSL		•		olding Shower Seat
4.) Diverte	r Valva			_	PHSSR				Folding Shower Seat
DIVERTE	i vaive.	Diverter Va	lvo	_	FIIOOIX		Night Hand i	FIIGHORE	I diding driower deat
DVLR			sistant Diverter Valve	10	.) Other (Intione:			
PML1-	1112	•	Temp. Pneumatic Metering Valves		•	•	od Transform	or 110\/A	C to 24VAC* (Standard)
- FIVIL I-	VIAZ	•	vert water flow to either upper, lower, or both		TF24F		ransformer, 1		,
		•	ads; for use with Mixing Valve options above)	_	TMV	-			
		snower nea	aus, for use with Mixing valve options above)	_			ermostatic Mi	•	
E \ Durch E)44a.a. Cala	-4!		_	HL CL DO4	,	Hooks For Fle	,	•
•	Button Sele				SLB24	•	stable Slide B	•	exsilower)
		nic Valves O		_	SD		Mounted Soar	•	
☐ PPB		ic Push Butt		_	RD		ed Mounted So	oap Disn	
☐ PBH	-		eumatic Push Buttons	_	CR	Curtain F			
☐ EPB		c Push Butto			SC	Shower (
☐ EPBH	•		ectronic Push Buttons*	_	GB				fy Dimensions):
PZPB	Piezo Ele	ectronic Pus	n Buttons*		PS		oud (Specify I	· / _	
				_		(Pipe Sh	roud option ch	hanges Ri	iveted Sloped Top to Flat Top)
6.) Flow R		_	_		Other				
2.5 GP	M (Standar	rd) 🔲 2.0	GPM ☐ 1.5 GPM	*((Req. 110	V power t	through groun	d fault into	errupter (GFCI) receptacle)
Approv	ed For M	lanufactui	ing By:		Date	e:		Compa	any:
Wall Thickness: Wall Type:							_		
			18"────						
			1 17						DIGUT HAND CONTROL

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CWSMS-ADA Series ADA-Compliant Surface Mounted Wall Shower



Recommended Specifications

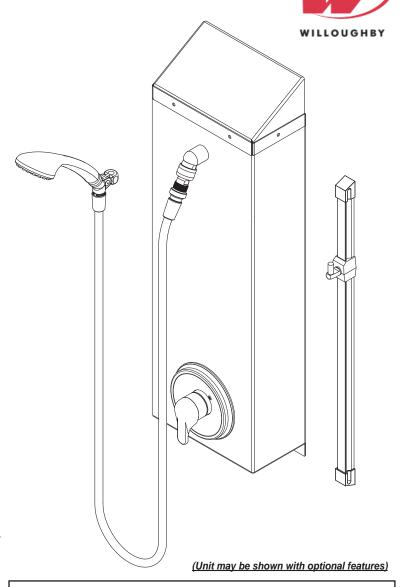
ADA-Compliant, Surface Mounted Wall Shower shall be: Willoughby Model No. **CWSMS-ADA** (Select from model number and options list on next page)

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
- (SLB24) 24" Adjustable Slide Bar (for Flexshower)
- 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.



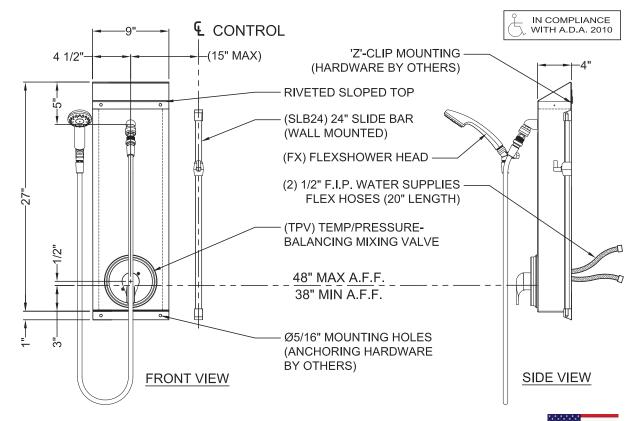
To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an ADA-Compliant, Surface Mounted Wall Shower with pressure-balancing valve, 2.5 GPM flow rate, standard FX Flexshower head, and standard 24" Flexshower slide bar

Use the following Willoughby Model Number: CWSMS-ADA-TPV-2.5-FX-SLB24

5.) Electronic Control* (Must Use Electronic Push Button): 1.) Base Model Number: ADA-Compliant, Surface Mounted Wall Shower ☐ CWSMS-ADA ☐ WUSC-2200 ☐ WUSC-2400 Pneutronic 2.) Valve Selection: 6.) Shower Head Selection: No Valve Hand-held Flexshower Head (w/ quick disconnect □ NV □ FX ☐ PML1 Single Temp. Pneumatic Metering and vacuum breaker) ■ E1L1 Single Temp. Electronic (w/ Pneutronic Control)* Pressure-Balancing Mixing Valve 7.) Other Options: □ PBV ■ TPV Temperature/Pressure-Balancing Mixing Valve ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard) □ TPLR Ligature-resistant Temperature/Pressure-Balancing Mixing Valve ☐ TF24P Plug-in Transformer, 110VAC to 24VAC* ■ TMV Inline Thermostatic Mixing Valve 3.) Push Button Selection: HL Hi-Lo (2 Hooks For Flexshower) Pneumatic or Electronic Valves Only: SLB24 24" Adjustable Slide Bar (for Flexshower, Standard) □ PPB Pneumatic Push Buttons ☐ GB Grab Bar (Wall Mounted, Specify Dimensions): PBH Ligature-resistant Pneumatic Push Buttons ☐ EPB Electronic Push Buttons* ☐ PS Pipe Shroud (Specify Length): Ligature-resistant Electronic Push Buttons* (Pipe Shroud option changes Riveted Sloped Top to Flat Top) □ PZPB Piezo Electronic Push Buttons' Other □ Other *(Req. 110V power through ground fault interrupter (GFCI) receptacle) 4.) Flow Rates: ☐ 2.5 GPM (Standard) □ 1.5 GPM ☐ 2.0 GPM

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



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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:

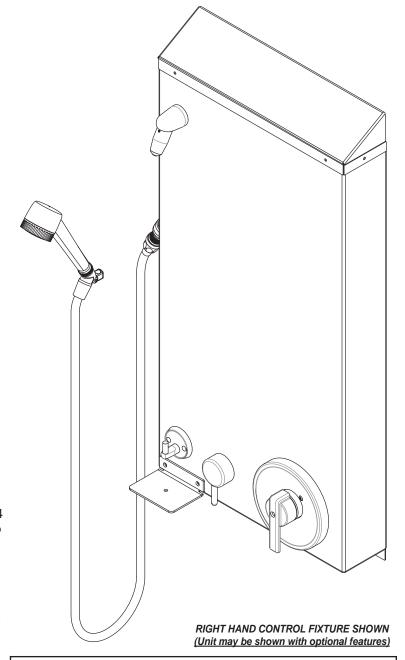
Willoughby Model No. **CWSMS-ADA-WH** (Select from model number and options list on next page)

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.



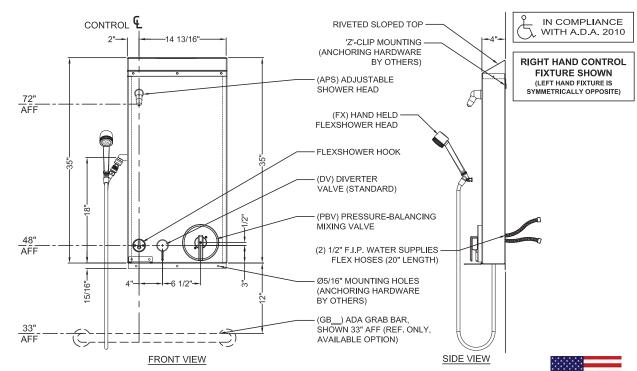
To specify fixture and accessories, use the Model Number and Options page.

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

1												
1.) Base I	Model Numb	er:			7.) Electror	nic Cont	rol* (Must Use	Electron	ic Push	n Button):	
CWSM	IS-ADA-WH		Wide Housing, ADA- Surface Mounted Wa	•		WUSC-2	2200	WUSC-24	400	☐ Pne	utronic	
					8.) Shower	Head So	election:				
2.) Panel	Orientation	(Must Sp	ecify):			APS	Adjusta	ble Vandal-resi	stant Sho	wer Hea	ad	
L	Left Hand	Controls				NPS	Non-Ad	justable Vanda	l-resistan	Shower	r Head	
☐ R	Right Hand	l Controls				UBJ	Univers	al Ball Joint Sh	ower Hea	ıd		
						LBJ	Lockab	le Ball Joint Sho	ower Hea	d		
3.) Valve	Selection:					CSH	Ligature	e-resistant Shov	wer Head			
■ NV	No Valve) FX	Hand-h	eld Flexshower	Head (w.	quick d	lisconnect, vacuum breaker, ho	ok)
PML1	Single Te	mp. Pneui	matic Metering			2HD	Dual Fix	ked Shower He	ads (repla	aces (FX	() Flexshower	
PML2		•	atic Metering				head w	second of the	selected	fixed Sh	ower Head)	
□ E1L1	•	•	onic (w/ Pneutronic Co	,								
☐ E1L2		•	nic (w/ Pneutronic Cont	rol)*) Optiona	I Showe					
☐ PBV		_	Mixing Valve			FSSL					ding Shower Seat	
☐ TPV			ancing Mixing Valve			FSSR		•			olding Shower Seat	
☐ TPLR	0		emperature/Pressure-B	alancing Mixing Valve	_	PFSSL					Steel Folding Shower Seat	
SVC	-		pression Valve		_	PFSSR		0			Steel Folding Shower Seat	
☐ DVC	Duai iem	p. Compre	ession Valves		_	PHSSL PHSSR		Left Hand Ph		_		
4.) Divert	or Volver).) Other (Ontiona	•	-nenolic i	-olding a	Shower Seat	
DIVERT	er valve.	Diverter \	/alva			•	•		or 110\/A/	2 to 24\/	/AC* (Standard)	
DVLR			resistant Diverter Valve			TF24F		Transformer, 1			,	
DVLIN		•	le Temp. Pneumatic Me		_	TMV	•	hermostatic Mix				
	WI VZ	-	•	er upper, lower, or both		HL		2 Hooks For Fle	•			
		•		ig Valve options above)		SLB24	•	ustable Slide Ba			r)	
				.g raire options above,		SD	-	Mounted Soar		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	• ,	
5.) Push I	Button Sele	ction:				RD				Option in	ncreases the cabinet width 7" to	O
•	c or Electron		Only:			-			. ,		taining ADA compliance)	
□ PPB	Pneumati	c Push Bu	uttons			GB3318		18" x 33" Tw	o Wall Gr	ab Bar	. ,	
PBH	Ligature-r	esistant P	neumatic Push Buttons	;		CR	Curtain	Rod				
EPB	Electronic	Push Bu	ttons*			SC	Shower	Curtain				
EPBH	Ligature-r	esistant E	lectronic Push Buttons	•		GB	Grab Ba	ar (Wall Mounte	ed, Specif	y Dimen	nsions):	_
PZPB	Piezo Ele	ctronic Pu	ısh Buttons*			PS		roud (Specify L				
							(Pipe S	hroud option ch	nanges Ri	veted SI	loped Top to Flat Top)	
6.) Flow F						Other						
2.5 GF	PM (Standard	d) 🔲 2	1.0 GPM ☐ 1.5 GF	PM	*(Req. 110\	power t	hrough ground	fault inter	rupter (0	GFCI) receptacle)	_
Approv	ved For M	anufacti	uring By:			_ Date	e:		Compa	ıny:		_
Wall T	hickness:			Wall Type:								
			_							1		
	1		CONTROL L				RIVETED	SLOPED TOP —	_		IN COMPLIANCE	
z _			2"	14 13/16" 			'Z'-CH	P MOUNTING —	_ \	- 4" -	WITH A.D.A. 2010	
∓ ूē						(AN		HARDWARE		\downarrow		
TO ROUGH-IN DESIGN AND ING OBLIGATION.								BY OTHERS)		$\sqrt{}$	RIGHT HAND CONTROL	
S SI				0 0			S) ADJUS				FIXTURE SHOWN (LEFT HAND FIXTURE IS	
O R	,	2"				SHC	WER HE	AD.	Į.	╣ 1	SYMMETRICALLY OPPOSITE)	
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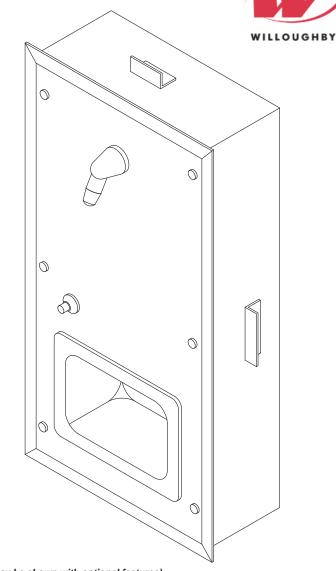


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CWRS-FA Series Front Mounted Recessed Shower Panel



Recommended Specifications

Front Mounted, Recessed Shower Panel shall be: Willoughby Model No. **CWRS-FA** (Select from model number and options list on next page)

Shower panel shall be fabricated from 16 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 head (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, 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.

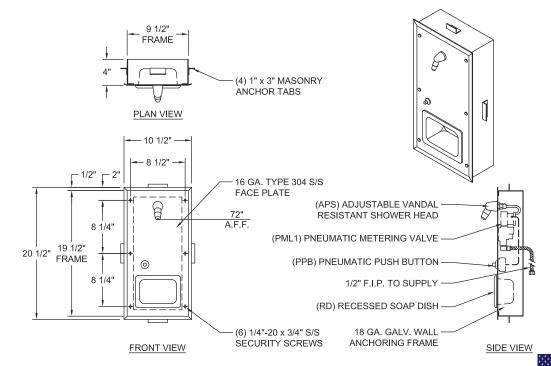
Example: To specify a Front Mounted, Recessed Shower Panel with single temp. pneumatic metering valve, pneumatic push button, standard 2.5 GPM flow rate, APS adjustable vandal-resistant shower head, inline thermostatic mixing valve, and recessed soap dish

Use the following Willoughby Model Number: CWRS-FA-PML1-PPB-2.5-APS-TMV-RD

1.) Base M	lodel Number:	5.) Electronic Control* (Must Use Electronic Push Button):					
CWRS-	FA Front Mounted, Recessed Shower Panel	WUSC-	2200 WUSC-2400 Pneutronic				
2.) Valve S	Selection:	6.) Shower	r Head Selection:				
■ NV	No Valve	APS	Adjustable Vandal-resistant Shower Head				
PML1	Single Temp. Pneumatic Metering	■ NPS	Non-Adjustable Vandal-resistant Shower Head				
☐ PML2	Dual Temp. Pneumatic Metering	UBJ	Universal Ball Joint Shower Head				
■ E1L1	Single Temp. Electronic (w/ Pneutronic Control)*	□ LBJ	Lockable Ball Joint Shower Head				
■ E1L2	Dual Temp. Electronic (w/ Pneutronic Control)*	□ CSH	Ligature-resistant Shower Head				
□ PBV	Pressure-Balancing Mixing Valve	□ FX	Hand-held Flexshower Head (w/ quick disconnect,				
■ TPV	Temperature/Pressure-Balancing Mixing Valve		vacuum breaker, and (1) hook)				
☐ TPLR	Ligature-resistant Temperature/Pressure-Balancing Mixing Valve						
SVC	Single Temp. Compression Valve	7.) Other C	Options:				
□ DVC	Dual Temp. Compression Valves	☐ TF24H	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)				
		TF24P	Plug-in Transformer, 110VAC to 24VAC*				
3.) Push B	Sutton Selection:	■ TMV	Inline Thermostatic Mixing Valve				
Pneumatic	or Electronic Valves Only:	☐ SLB24	24" Adjustable Slide Bar (for Flexshower, Wall Mounted)				
☐ PPB	Pneumatic Push Buttons	SD	Surface Mounted Soap Dish				
☐ PBH	Ligature-resistant Pneumatic Push Buttons	☐ RD	Recessed Mounted Soap Dish				
□ EPB	Electronic Push Buttons*	☐ GB	Grab Bar (Wall Mounted, Specify Dimensions):				
☐ EPBH	Ligature-resistant Electronic Push Buttons*		,				
☐ PZPB	Piezo Electronic Push Buttons*	☐ Other					
_		Other					
4.) Flow R	ates:	*(Reg. 11	0V power through ground fault interrupter (GFCI) receptacle)				
•	M (Standard) ☐ 2.0 GPM ☐ 1.5 GPM	, ,					

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

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CWRS-FA-ADA Series ADA-Compliant Front Mounted Recessed Shower Panel



Recommended Specifications

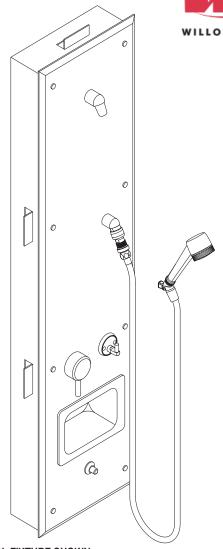
ADA-Compliant, Front Mounted, Recessed Shower Panel shall be: Willoughby Model No. **CWRS-FA-ADA** (Select from model number and options list on next page)

Shower panel shall be fabricated from 16 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, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.



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, Recessed Shower Panel with PML1 valve, diverter valve, PPB push button, standard 2.5 GPM flow rate, NPS vandal-resistant and FX Flex-shower shower heads, and recessed soap dish

Use the following Willoughby Model Number: CWRS-FA-ADA-PML1-DV-PPB-2.5-NPS-FX-RD

ı	MODEL NOMBER AND OF HORO.						
	1.) Base Mo	odel Number: FA-ADA ADA-Compliant, Front Mounted, Recessed Shower Panel	6.) Flow Rates: ☐ 2.5 GPM (Standard) ☐ 2.0 GPM ☐ 1.5 GPM				
		rientation (Must Specify):	7.) Electronic Control* (Must Use Electronic Push Button):				
	_	Left Hand Controls Right Hand Controls	☐ WUSC-2200 ☐ WUSC-2400 ☐ Pneutronic				
	_ .\	Taght Hand Sontions	8.) Shower Head Selection:				
	3.) Valve Se		☐ APS Adjustable Vandal-resistant Shower Head				
	□ NV □ PML1	No Valve Single Temp. Pneumatic Metering	□ NPS Non-Adjustable Vandal-resistant Shower Head □ UBJ Universal Ball Joint Shower Head				
- 1	☐ PML2	Dual Temp. Pneumatic Metering	LBJ Lockable Ball Joint Shower Head				
	E1L1	Single Temp. Electronic (w/ Pneutronic Control)*	☐ CSH Ligature-resistant Shower Head				
	E1L2	Dual Temp. Electronic (w/ Pneutronic Control)*	FX Hand-held Flexshower Head (w/ quick disconnect,				
-	□ PBV □ TPV	Pressure-Balancing Mixing Valve** Temperature/Pressure-Balancing Mixing Valve**	vacuum breaker, and (1) hook) 2HD Dual Fixed Shower Heads (replaces (FX) Flexshower				
	TPLR	Ligature-resistant Temp/Pressure-balancing Mixing Valve**	head w/ second of the selected fixed Shower Head)				
	- a a	(TPLR) not available with (DVLR) diverter valve on CWRS-FA-ADA					
	☐ SVC ☐ DVC	Single Temp. Compression Valve Dual Temp. Compression Valves	9.) Optional Shower Seat: □ FSSL Left Hand Stainless Steel Folding Shower Seat				
	MA2	Valve Manifold Option (Pneumatic or Electronic Valves Only):	☐ FSSR Right Hand Stainless Steel Folding Shower Seat				
		(See the Manifold Option Page at the end of	☐ PFSSL Left Hand Padded Stainless Steel Folding Shower Seat				
	**/	Catalog Section C14 for further information)	☐ PFSSR Right Hand Padded Stainless Steel Folding Shower Seat				
	^^(Cannot be	e specified with RD soap dish; use Model No. CWRS-FA-ADA-WH)	☐ PHSSL Left Hand Phenolic Folding Shower Seat ☐ PHSSR Right Hand Phenolic Folding Shower Seat				
4	4.) Diverter	Valve:	Tribort Right Hand Fibriolo Folding Shower Code				
	☐ DV	Diverter Valve	10.) Other Options:				
Ļ	☐ DVLR	Ligature-resistant Diverter Valve (TPLR) not available with (DVLR) diverter valve on CWRS-FA-ADA	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard) ☐ TF24P Plug-in Transformer, 110VAC to 24VAC*				
[☐ PML1-M		TMV Inline Thermostatic Mixing Valve				
	_	(Used to divert water flow to either upper, lower, or both	HL Hi-Lo (2 Hooks For Flexshower)				
		shower heads; for use with Mixing Valve options above)	☐ SLB24 24" Adjustable Slide Bar (for Flexshower)☐ SD Surface Mounted Soap Dish				
ļ	5.) Push Bu	utton Selection:	RD Recessed Mounted Soap Dish** (Cannot be specified with PBV, TPV, or				
	•	or Electronic Valves Only:	TPLR mixing valves; use Model No. CWRS-FA-ADA-WH)				
	☐ PPB	Pneumatic Push Buttons	GB3318 18" x 33" Two Wall Grab Bar				
	□ PBH □ EPB	Ligature-resistant Push Buttons Electronic Push Buttons*	☐ GB Grab Bar (Wall Mounted, Specify Dimensions):				
	EPBH	Ligature-resistant Electronic Push Buttons*	*(Req. 110V power through ground fault interrupter (GFCI) receptacle)				
Ţ	□ PZPB	Piezo Electronic Push Buttons*					
ſ							
		ed For Manufacturing By:					
١	Wall Th	ickness: Wall Type:					
١							
,		10 1/2"	9-1/2" x 42" 18 GA. GALV. LEFT HAND CONTROL				
	z .	V	WALL ANCHORING FRAME FIXTURE SHOWN (RIGHT HAND FIXTURE IS				
	H OE		JUSTABLE SHOWER HEAD SYMMETRICALLY OPPOSITE)				
	O D D D D D D D D D D D D D D D D D D D	72"					
	S S		04 S/S SHOWER PANEL IN COMPLIANCE				
	O Ses	TUBING FROM	VALVE TO SHOWER HEAD WITH A.D.A. 2010				
	\\ \text{\tin}\}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}						
	RGES	(FX) H	HAND HELD FLEXSHOWER ————————————————————————————————————				
	<u> </u>		& VACUUM BREAKER				
	뜻						
	C A	13 - 43 - 13 - 43 - 13 - 13 - 13 - 13 -	ING OR WIRING TO VALVE				
	A CA		P. FLEX HOSE TO SUPPLY				
	[변 동발]	48" (DV) SHOWE	R HEAD DIVERTER VALVE				
	N SE	A.F.F.					
	NS F	FLEXSHOWER	RHOOK				
	SIO	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RD) RECESSED SOAP DISH				
	EN EN	28"					
	조 등	A.F.F. 4" (8) 1/4"-20 x 3/4	4" S/S SECURITY SCREWS				
	L L	4 T P	PUSH BUTTON FOR VALVE				
	AL SUC	† 					
	FY I	8 1/2"	4"				
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CWRS-FA-ADA-WH Series Wide Housing ADA-Compliant Front Mounted Recessed Shower Panel



Recommended Specifications

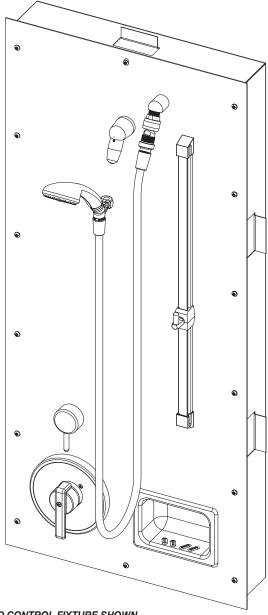
Wide Housing, ADA-Compliant, Front Mounted, Recessed Shower Panel shall be: Willoughby Model No. **CWRS-FA-ADA-WH** (Select from model number and options list on next page)

Shower panel shall be fabricated from 16 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, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.



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, flex shower slide bar, and recessed soap dish

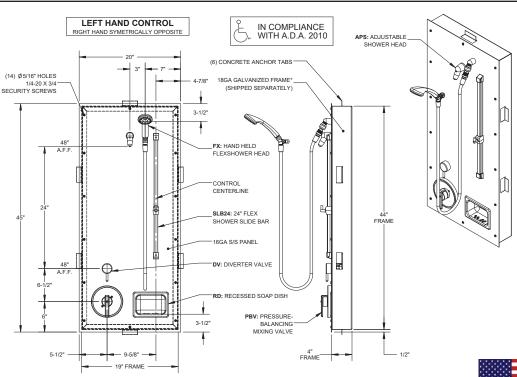
Use the following Willoughby Model Number: CWRS-FA-ADA-WH-L-PBV-DV-2.5-APS-FX-SLB24-RD



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1.) Base Model Number:	7.) Electronic Control* (Must Use Electronic Push Button):
☐ CWRS-FA-ADA-WH Wide Housing, ADA-Compliant, Front	☐ WUSC-2200 ☐ WUSC-2400 ☐ Pneutronic
Mounted, Recessed Shower Panel	
2.) Panel Orientation (Must Specify):	8.) Shower Head Selection:
☐ L Left Hand Controls	☐ APS Adjustable Vandal-resistant Shower Head
R Right Hand Controls	■ NPS Non-Adjustable Vandal-resistant Shower Head
	☐ UBJ Universal Ball Joint Shower Head
3.) Valve Selection:	☐ LBJ Lockable Ball Joint Shower Head
■ NV No Valve	☐ CSH Ligature-resistant Shower Head
☐ PML1 Single Temp. Pneumatic Metering	☐ FX Hand-held Flexshower Head (w/ quick disconnect,
☐ PML2 Dual Temp. Pneumatic Metering	vacuum breaker, and (1) hook)
☐ E1L1 Single Temp. Electronic (w/ Pneutronic Control)*	☐ 2HD Dual Fixed Shower Heads (replaces (FX) Flexshower
☐ E1L2 Dual Temp. Electronic (w/ Pneutronic Control)*	head w/ second of the selected fixed Shower Head)
☐ PBV Pressure-Balancing Mixing Valve	
☐ TPV Temperature/Pressure-Balancing Mixing Valve	9.) Optional Shower Seat:
☐ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve	☐ FSSL Left Hand Stainless Steel Folding Shower Seat
☐ SVC Single Temp. Compression Valve	☐ FSSR Right Hand Stainless Steel Folding Shower Seat
☐ DVC Dual Temp. Compression Valves	☐ PFSSL Left Hand Padded Stainless Steel Folding Shower Seat
☐ MA2 Valve Manifold Option (Pneumatic or Electronic Valves Only):	☐ PFSSR Right Hand Padded Stainless Steel Folding Shower Seat
(See the Manifold Option Page at the end of	☐ PHSSL Left Hand Phenolic Folding Shower Seat
Catalog Section C14 for further information)	☐ PHSSR Right Hand Phenolic Folding Shower Seat
4.) Diverter Valve:	
☐ DV Diverter Valve	10.) Other Options:
□ DVLR Ligature-resistant Diverter Valve	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
☐ PML1-MA2 Two Single Temp. Pneumatic Metering Valves	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
(Used to divert water flow to either upper, lower, or both	☐ TMV Inline Thermostatic Mixing Valve
shower heads; for use with Mixing Valve options above)	☐ HL Hi-Lo (2 Hooks For Flexshower)
5.) Push Button Selection:	☐ SLB24 24" Adjustable Slide Bar (for Flexshower)
Pneumatic or Electronic Valves Only:	☐ SD Surface Mounted Soap Dish
☐ PPB Pneumatic Push Buttons	RD Recessed Mounted Soap Dish
☐ PBH Ligature-resistant Push Buttons	☐ GB3318 18" x 33" Two Wall Grab Bar
☐ EPB Electronic Push Buttons*	☐ CR Curtain Rod
☐ EPBH Ligature-resistant Electronic Push Buttons*	☐ SC Shower Curtain
☐ PZPB Piezo Electronic Push Buttons*	GB Grab Bar (Wall Mounted, Specify Dimensions):
	☐ Other
6.) Flow Rates:	☐ Other
☐ 2.5 GPM (Standard) ☐ 2.0 GPM ☐ 1.5 GPM	*(Req. 110V power through ground fault interrupter (GFCI) receptacle)
Approved For Manufacturing By:	Date: Company:
Wall Thickness: Wall Type:	<u> </u>

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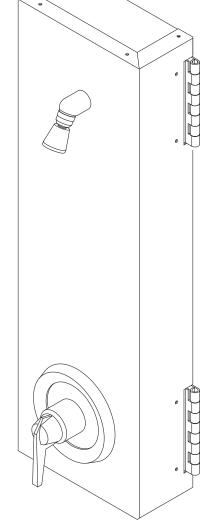
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CWSMSH Series Hinged Surface Mounted Wall Shower



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.

(Unit may be shown with optional features)

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



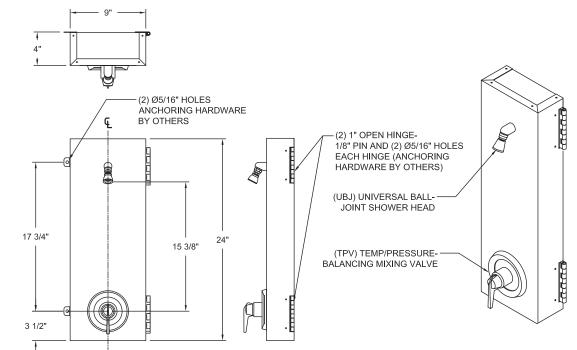
5.) Electronic Control* (Must Use Electronic Push Button): 1.) Base Model Number: ☐ CWSMSH Hinged Surface Mounted Wall Shower ☐ WUSC-2200 ■ WUSC-2400 ☐ Pneutronic 2.) Valve Selection: 6.) Shower Head Selection: □ NV No Valve □ APS Adjustable Vandal-resistant Shower Head ☐ PML1 Single Temp. Pneumatic Metering ■ NPS Non-Adjustable Vandal-resistant Shower Head ☐ PML2 UBJ Dual Temp. Pneumatic Metering Universal Ball Joint Shower Head ■ E1L1 Single Temp. Electronic (w/ Pneutronic Control)* Lockable Ball Joint Shower Head LBJ ☐ E1L2 Dual Temp. Electronic (w/ Pneutronic Control)* □ CSH Ligature-resistant Shower Head □ PBV Pressure-Balancing Mixing Valve □ TPV Temperature/Pressure-Balancing Mixing Valve 7.) Other Options: Single Temp. Compression Valve ☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard) SVC □ DVC Dual Temp. Compression Valves ☐ TF24P Plug-in Transformer, 110VAC to 24VAC* ■ TMV Inline Thermostatic Mixing Valve SD Surface Mounted Soap Dish (Wall Mounted) 3.) Push Button Selection: Recessed Soap Dish (In-Wall Mounted) Pneumatic or Electronic Valves Only: RSD2 ☐ PPB Pneumatic Push Buttons ☐ GB Grab Bar (Wall Mounted, Specify Dimensions): PBH Ligature-resistant Push Buttons Pipe Shroud (Specify Length): □ EPB Electronic Push Buttons* □ PS EPBH Ligature-resistant Electronic Push Buttons* Piezo Electronic Push Buttons* ☐ Other □ PZPB Other 4.) Flow Rates: *(Req. 110V power through ground fault interrupter (GFCI) receptacle)

☐ 1.5 GPM

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

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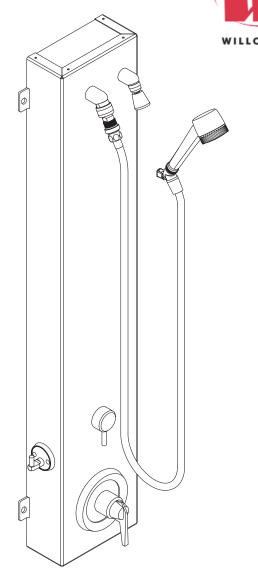
☐ 2.5 GPM (Standard) ☐ 2.0 GPM

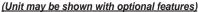


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CWSMSH-HCA Series Handicap Accessible Hinged Surface Mounted Wall Shower





(HCA) HANDICAP ACCESSIBLE

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.

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, and 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.)

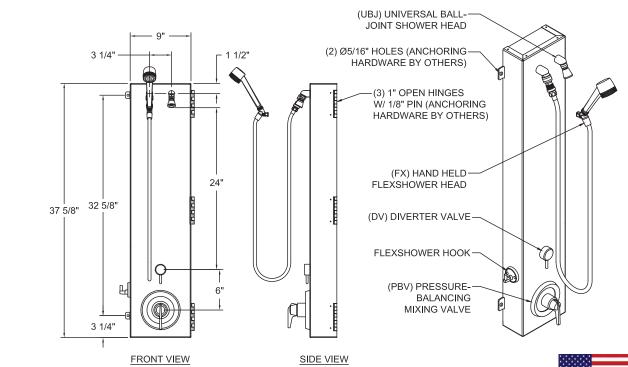
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1.) Base N	/lodel Number	:	5.) Flow R	ates:	
☐ CWSM	ISH-HCA	Handicap Accessible, Hinged Surface Mounted Wall Shower	☐ 2.5 GPI	M (Standard) 2.0 GPM 1.5 GPM	
			6.) Electro	nic Control* (Must Use Electronic Push Button):	
2.) Valve S	Selection:		■ WUSC-	2200 WUSC-2400 Pneutronic	
☐ NV	No Valve				
☐ PML1	Single Temp	. Pneumatic Metering	7.) Shower	r Head Selection:	
☐ PML2	Dual Temp.	Pneumatic Metering	☐ APS	Adjustable Vandal-resistant Shower Head	
■ E1L1	Single Temp	. Electronic (w/ Pneutronic Control)*	■ NPS	Non-Adjustable Vandal-resistant Shower Head	
☐ E1L2	Dual Temp.	Electronic (w/ Pneutronic Control)*	UBJ	Universal Ball Joint Shower Head	
□ PBV	Pressure-Ba	lancing Mixing Valve	LBJ	Lockable Ball Joint Shower Head	
□ TPV	Temperature	e/Pressure-Balancing Mixing Valve	□ CSH	Ligature-resistant Shower Head	
SVC	Single Temp	. Compression Valve	FX	Hand-held Flexshower Head (w/ quick disconnect,	
DVC	Dual Temp.	Compression Valves		vacuum breaker, and (1) hook)	
MA2	Valve Manii	fold Option (Pneumatic or Electronic Valves Only):	2HD	Dual Fixed Shower Heads (replaces (FX) Flexshower	
	(See the	Manifold Option Page at the end of		head w/ second of the selected fixed Shower Head)	
	Catalog	Section C14 for further information)		,	
	•		8.) Other C	Options:	
3.) Diverte	er Valve:		☐ TF24H		
☐ DV	Di	verter Valve	TF24P	Plug-in Transformer, 110VAC to 24VAC*	
DVLR	Lig	gature-resistant Diverter Valve	■ TMV	Inline Thermostatic Mixing Valve	
PML1-I	MA2 Tv	vo Single Temp. Pneumatic Metering Valves	☐ HL	Hi-Lo (2 Hooks For Flexshower)	
_	(U	sed to divert water flow to either upper, lower, or both	SLB24	24" Adjustable Slide Bar (for Flexshower)	
	sh	ower heads; for use with Mixing Valve options above)	☐ SD	Surface Mounted Soap Dish (Wall Mounted)	
		, , , , , , , , , , , , , , , , , , , ,	RSD2	Recessed Soap Dish (In-Wall Mounted)	
4.) Push E	Button Selecti	on:	☐ GB	Grab Bar (Wall Mounted, Specify Dimensions):	
	or Electronic		_	,	
☐ PPB		Push Buttons	□ PS	Pipe Shroud (Specify Length):	
☐ PBH	Ligature-res	istant Push Buttons	_		
☐ EPB	•	ush Buttons*	☐ Other		
☐ EPBH	Ligature-res	istant Electronic Push Buttons*	☐ Other		
D PZPB	O	onic Push Buttons*	*(Reg. 110V power through ground fault interrupter (GFCI) receptacle)		

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

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CWBIS-FA Series Front Mounted Built-In Shower

Recommended Specifications

Front Mounted Built-In Shower shall be: Willoughby Model No. **CWBIS-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:

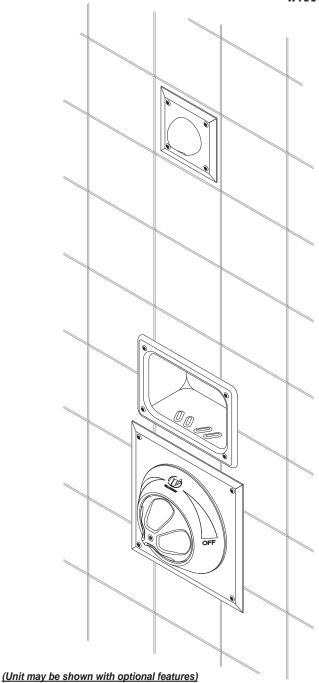
- Shower valve (from Valve Selection options list)
- Shower head (from Shower Head Selection options list)

Anchoring of stainless steel panels shall be from the front. Wall anchors by others.

Handicap Accessible:

The CWBIS-FA can be installed to conform to most ADA requirements; for complete ADA Compliance, see Model No. CWBIS-FA-ADA

(Compliance shall be subject to the requirements of the local code authority based on installation-specific details and is the responsibility of the installer.)



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

Example: To specify a Front Mounted Built-In Shower with ligature-resistant temp/pressure-balancing mixing valve, standard 2.5 GPM flow rate, CSH ligature-resistant shower head, and in-wall mounted recessed soap dish

Use the following Willoughby Model Number: CWBIS-FA-TPLR-2.5-CSH-RSD2

MADE IN THE U.S.A.

MODEL NUMBER AND OPTIONS: 5.) Electronic Control* (Must Use Electronic Push Button): 1.) Base Model Number: CWBIS-FA Front Mounted Built-in Shower ☐ WUSC-2200 ☐ WUSC-2400 ☐ Pneutronic 2.) Valve Selection: 6.) Shower Head Selection: □ NV No Valve ☐ APS Adjustable Vandal-resistant Shower Head ☐ PML1 Single Temp. Pneumatic Metering ■ NPS Non-Adjustable Vandal-resistant Shower Head ☐ PML2 Dual Temp. Pneumatic Metering UBJ Universal Ball Joint Shower Head ☐ E1L1 Single Temp. Electronic (w/ Pneutronic Control)* ☐ LBJ Lockable Ball Joint Shower Head ☐ E1L2 Dual Temp. Electronic (w/ Pneutronic Control)* ☐ CSH Ligature-resistant Shower Head Hand-held Flexshower Head (w/ quick disconnect, ☐ PBV ☐ FX Pressure-Balancing Mixing Valve ☐ TPV Temperature/Pressure-Balancing Mixing Valve vacuum breaker, and (1) hook) Ligature-resistant Temp/Pressure-balancing Mixing Valve ■ TPLR ☐ SVC Single Temp. Compression Valve 7.) Other Options: □ DVC Dual Temp. Compression Valves ■ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard) ☐ TF24P Plug-in Transformer, 110VAC to 24VAC* □ TMV 3.) Push Button Selection: Inline Thermostatic Mixing Valve Pneumatic or Electronic Valves Only: ☐ HL Hi-Lo (2 Hooks For Flexshower) □ PPB Pneumatic Push Buttons ☐ SLB24 24" Adjustable Slide Bar (for Flexshower, Wall Mounted) Surface Mounted Soap Dish (Wall Mounted) □ PBH Ligature-resistant Push Buttons ☐ SD ■ EPB Electronic Push Buttons* RSD2 Recessed Soap Dish (In-Wall Mounted) Ligature-resistant Electronic Push Buttons* ☐ GB Grab Bar (Wall Mounted, Specify Dimensions): EPBH □ PZPB Piezo Electronic Push Buttons* Other ☐ Other 4.) Flow Rates: ■ 2.5 GPM (Standard) ■ 1.5 GPM *(Req. 110V power through ground fault interrupter (GFCI) receptacle) 2.0 GPM Approved For Manufacturing By: _ Date: _____ Company: _ Wall Thickness: . Wall Type: **CWBIS-FA- POSSIBLE FIXTURE CONFIGURATIONS:** 1/2" F.I.P. FLEX HOSES TO H&C WATER SUPPLIES; TUBING/SUPPLY FROM 14 GA. S/S MOUNTING PLATES (UPPER AND LOWER) SUPPLY ORIENTATION (BOTTOM, TOP, BACK) VALVE TO SHOWER HEAD WILL BE INSTALLATION SPECIFIC VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN TO MAKE CHANGES IN DESIGN AND AND WITHOUT INCURRING OBLIGATION.

WILLOUGHBY RESERVES THE RIGHT OF PRIMENSIONS WITHOUT FORMAL NOTICE A Ѿ 7 'n 7 10" 10" 10" -10" -10" -CWBIS-FA W/SINGLE CWBIS-FA W/DUAL CWBIS-FA W/ CWBIS-FA W/ CWBIS-FA W/SINGLE TEMP. PUSH BUTTON, TEMP. PUSH BUTTONS, TEMP. PUSH BUTTON, (TPLR) MIXING VALVE. (TPV) MIXING VALVE (FX) FLEXSHOWER, (APS) SHOWER HEAD (APS) SHOWER HEAD (CSH) SHOWER HEAD (UBJ) SHOWER HEAD (HL) HI-LO HOOKS

CERTAIN ACCESSORIES SUCH AS SOAP NOTE: DISHES, GRAB BARS, AND FLEXSHOWER ACCESSORIES WILL BE WALL MOUNTED

CUTOUTS REQUIRED FOR NOTE: ALL MOUNTING PLATES

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WILLDUGHRY

CWBIS-FA-ADA Series ADA-Compliant Front Mounted Built-In Shower



Recommended Specifications

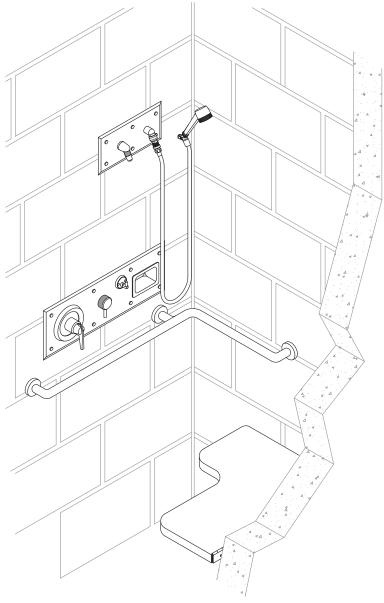
ADA-Compliant, Front Mounted Built-In Shower shall be: Willoughby Model No. **CWBIS-FA-ADA** (Select from model number and options list on next page)

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:

- 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.



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 (right hand), two wall grab bar, and recessed soap dish

Use the following Willoughby Model Number: CWBIS-FA-ADA-L-TPV-DV-2.5-APS-FX-FSSR-GB3318-RD

MADE IN THE U.S.A.

	MODEL NUMBER AND OPTIONS:					
•		lodel Numbe -FA-ADA A	er: DA-Compliant, Front Mounted Built-In Shower	6.) Flow R	ates: M (Standard)	
2.)	L	Orientation (I Left Hand Co Right Hand (7.) Electro	onic Control* (Must Use Electronic Push Button): -2200	
3.)		Selection: No Valve Single Temp Dual Temp. Single Temp Dual Temp. Pressure-B Temperatur Ligature-re: Single Temp Dual Temp. Valve Man (See the	p. Pneumatic Metering Pneumatic Metering p. Electronic (w/ Pneutronic Control)* Electronic (w/ Pneutronic Control)* alancing Mixing Valve re/Pressure-Balancing Mixing Valve sistant Temp/Pressure-balancing Mixing Valve p. Compression Valve compression Valves ifold Option (Pneumatic or Electronic Valves Only): the Manifold Option Page at the end of the Section C14 for further information)	APS NPS UBJ LBJ CSH FX	Right Hand Padded Stainless Steel Folding Shower Seat	
5.)) <i>Pn</i>	DV DVLR PML1-M	r Valve: L MA2 T (I s Button Select or Electronic Pneumatic Ligature-re: Electronic F Ligature-re:	Diverter Valve igature-resistant Diverter Valve wo Single Temp. Pneumatic Metering Valves Used to divert water flow to either upper, lower, or both hower heads; for use with Mixing Valve options above)	10.) Other TF24H TF24P TMV HL SLB24 SD RD GB CR SC	R Right Hand Phenolic Folding Shower Seat Options: Hard-wired Transformer, 110VAC to 24VAC* (Standard)	
		ed For Ma nickness: _	nufacturing By: Wall Type:		ate: Company:	
VERIEY ALL DIMENSIONS WITH FACTORY PRIOR TO ROLIGHIN	WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.		14 GA. S/S MOUNTING PLATES (UPPER AND LOWER) 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 1/2" F.I.P. FLEX HOSES TO H&C WATER SUPPLIES; SUPPLY ORIENTATION (BOTTOM, TOP, BACK)	72" AFF		
ALL DIMENSIO	OUGHBY RESERVES		WILL BE INSTALLATION SPECIFIC NOTE: CUTOUTS REQUIRED FOR ALL MOUNTING PLATES		30 1/2"	
VERIEY	WILL		NOTE: CERTAIN ACCESSORIES SUCH AS S DISHES, GRAB BARS, AND FLEXSHO ACCESSORIES CAN BE WALL MOUN	OWER	CWBIS-FA-ADA W/ (TPV) MIXING VALVE, (DV) DIVERTER VALVE, (APS) SHOWER HEAD, (FX) FLEXSHOWER, AND (RD) SOAP DISH	

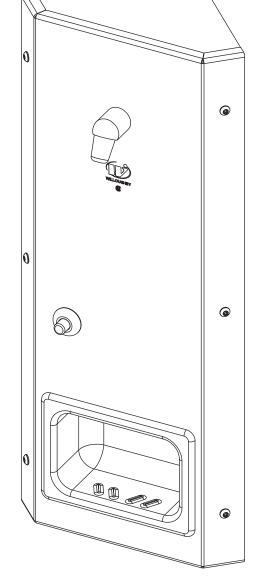


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CWKS Series Surface Mounted Corner Wall Shower



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.

(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 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-PPB-2.5-NPS-RD

MADE IN THE U.S.A.

1.) Base M	odel Number:	5.) Electronic Control* (Must Use Electronic Push Button):				
CWKS	Surface Mounted Corner Wall Shower	■ WUSC-	2200 WUSC-2400 Pneutronic			
2.) Valve S	election:	6.) Shower	Head Selection:			
☐ NV	No Valve	☐ APS	Adjustable Vandal-resistant Shower Head			
D PML1	Single Temp. Pneumatic Metering	☐ NPS	Non-Adjustable Vandal-resistant Shower Head			
☐ PML2	Dual Temp. Pneumatic Metering	UBJ	Universal Ball Joint Shower Head			
☐ E1L1	Single Temp. Electronic (w/ Pneutronic Control)*	LBJ	Lockable Ball Joint Shower Head			
■ E1L2	Dual Temp. Electronic (w/ Pneutronic Control)*	☐ CSH	Ligature-resistant Shower Head			
□ PBV	Pressure-Balancing Mixing Valve	☐ FX	Hand-held Flexshower Head (w/ quick disconnect,			
■ TPV	Temperature/Pressure-Balancing Mixing Valve		vacuum breaker, and (1) hook)			
TPLR	Ligature-resistant Temp/Pressure-balancing Mixing Valve					
☐ SVC	Single Temp. Compression Valve	7.) Other C	Options:			
DVC	Dual Temp. Compression Valves	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC* (Standard)			
		☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*			
3.) Push B	utton Selection:	■ TMV	Inline Thermostatic Mixing Valve			
Pneumatic	or Electronic Valves Only:	☐ SLB24	24" Adjustable Slide Bar (for Flexshower, Wall Mounted)			
PPB	Pneumatic Push Buttons	☐ SD	Surface Mounted Soap Dish			
PBH	Ligature-resistant Push Buttons	RD RD	Recessed Mounted Soap Dish			
EPB	Electronic Push Buttons*	☐ GB	Grab Bar (Wall Mounted, Specify Dimensions):			
EPBH	Ligature-resistant Electronic Push Buttons*					
☐ PZPB	Piezo Electronic Push Buttons*	☐ PS	Pipe Shroud (Specify Length):			
4.) Flow Ra	ates:	Other				
☐ 2.5 GPN	// (Standard) □ 2.0 GPM □ 1.5 GPM	Other				
		*(Req. 110	OV power through ground fault interrupter (GFCI) receptacle)			

Approved For Manufacturing By: _ Company: _ Wall Type: Wall Thickness: WALL MOUNTED FRAME FOR FRONT MOUNTED PLATE (HARDWARE BY OTHERS) VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN TUBING TO (NPS) WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION. SHOWER HEAD 6 3/8" (PML1) SINGLE 1 3/4" TEMP. VALVE **ASSEMBLY** – 7 3/4" – 20" 1/2" F.P.T. TO SUPPLY -**PLAN VIEW** (NPS) NON-ADJUSTABLE VANDAL RESISTANT SHOWER HEAD 5" 72" A.F.F. 9 1/2" (4) 1" x 1-1/4" WALL MOUNTING SLOTS **EXPLODED** 24" SIDE VIEW 1/4"-20 x 3/4" S/S SECURITY SCREWS W/ S/S NUTS 9 1/2" MOUNTED IN FRAME (PPB) PUSH BUTTON (RD) RECESSED SOAP DISH 2 9/16" -16 GA STAINLESS STEEL PANEL FRONT VIEW

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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:

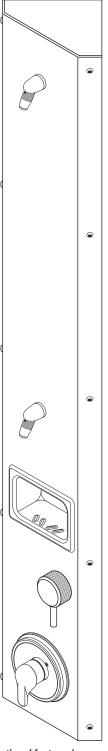
- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- Mounting bracket

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.)



(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

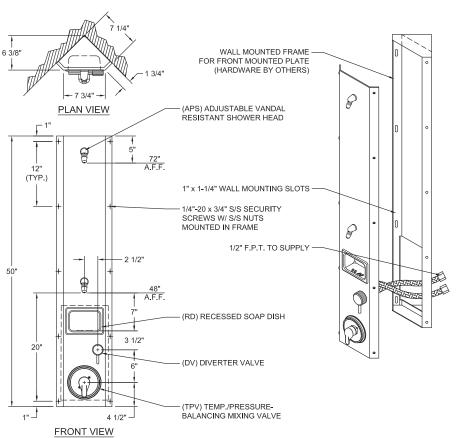
Use the following Willoughby Model Number: CWKS-HCA-TPV-DV-2.5-APS-2HD-RD

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1.) Base Model Number: 5.) Flow Rates:				ates:		
☐ CWK	S-HCA	Handicap Accessible, Surface Mounted	2.5 GPN	M (Standard) 🔲 2.0 GPM 🔲 1.5 GPM		
		Corner Wall Shower				
2.) Valve	Selection:		6.) Electro	nic Control* (Must Use Electronic Push Button):		
■ NV	No Valv	e	WUSC-	2200 WUSC-2400 Pneutronic		
PML1	Single T	emp. Pneumatic Metering				
☐ PML2	Dual Te	mp. Pneumatic Metering	7.) Shower	r Head Selection:		
■ E1L1	Single T	emp. Electronic (w/ Pneutronic Control)*	APS	Adjustable Vandal-resistant Shower Head		
☐ E1L2	Dual Te	mp. Electronic (w/ Pneutronic Control)*	■ NPS	Non-Adjustable Vandal-resistant Shower Head		
PBV	Pressur	e-Balancing Mixing Valve	UBJ	Universal Ball Joint Shower Head		
■ TPV	Tempera	ature/Pressure-Balancing Mixing Valve	LBJ	Lockable Ball Joint Shower Head		
□ TPLR	Ligature	-resistant Temp/Pressure-balancing Mixing Valve	CSH	Ligature-resistant Shower Head		
☐ SVC	Single T	emp. Compression Valve	☐ FX	Hand-held Flexshower Head (w/ quick disconnect,		
DVC	Dual Te	mp. Compression Valves		vacuum breaker, and (1) hook)		
☐ MA2	Valve N	lanifold Option (Pneumatic or Electronic Valves Only):	2HD	Dual Fixed Shower Heads (replaces (FX) Flexshower		
	(See	the Manifold Option Page at the end of		head w/ second of the selected fixed Shower Head)		
	Cata	log Section C14 for further information)				
3.) Divert	ter Valve:		8.) Other C	Options:		
□ DV		Diverter Valve	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC* (Standard)		
DVLR		Ligature-resistant Diverter Valve	☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*		
☐ PML1	-MA2	Two Single Temp. Pneumatic Metering Valves	■ TMV	Inline Thermostatic Mixing Valve		
		(Used to divert water flow to either upper, lower, or both	☐ HL	Hi-Lo (2 Hooks For Flexshower)		
		shower heads; for use with Mixing Valve options above)	☐ SLB24	24" Adjustable Slide Bar (for Flexshower, Wall Mounted)		
			☐ SD	Surface Mounted Soap Dish		
4.) Push	Button Sel	ection:	☐ RD	Recessed Mounted Soap Dish		
Pneumat	ic or Electro	onic Valves Only:	☐ GB	Grab Bar (Wall Mounted, Specify Dimensions):		
PPB	Pneuma	atic Push Buttons				
PBH	Ligature	resistant Push Buttons	PS	Pipe Shroud (Specify Length):		
EPB	Electron	iic Push Buttons*				
EPBH	l Ligature	resistant Electronic Push Buttons*	Other			
☐ PZPB	Piezo E	lectronic Push Buttons*	*(Req. 110	0V power through ground fault interrupter (GFCI) receptacle)		
Appro	ved For N	Manufacturing By:	Date:	Company:		
	Wall Thickness: Wall Type:					

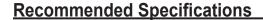
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CWDS Series Two Station Surface Mounted Wall Shower



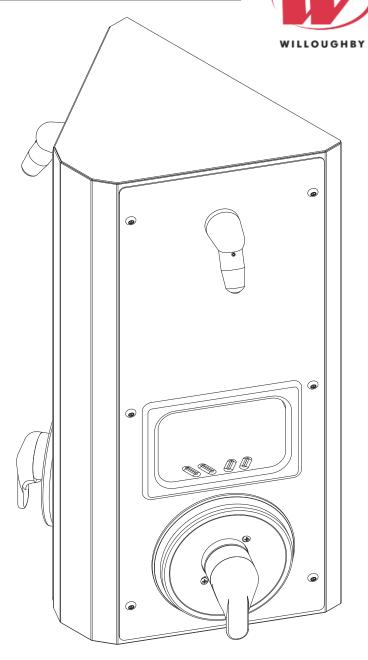
Two Station, Surface Mounted Wall Shower shall be: Willoughby Model No. **CWDS** (Select from model number and options list on next page)

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.



(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

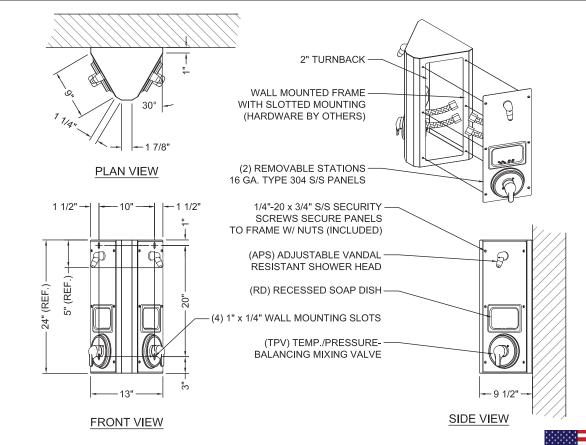
Use the following Willoughby Model Number: CWDS-TPV-2.5-APS-RD

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1.) Base M	1.) Base Model Number: 5.) Electronic Control* (Must Use Electronic Push Buttor				
CWDS	Two Station, Surface Mounted Wall Shower	■ WUSC-	2200 WUSC-2400 Pneutronic		
2.) Valve S	election:	6.) Showe	Head Selection:		
□ NV	No Valve	☐ APS	Adjustable Vandal-resistant Shower Head		
☐ PML1	Single Temp. Pneumatic Metering	☐ NPS	Non-Adjustable Vandal-resistant Shower Head		
☐ PML2	Dual Temp. Pneumatic Metering	☐ UBJ	Universal Ball Joint Shower Head		
□ E1L1	Single Temp. Electronic (w/ Pneutronic Control)*	☐ LBJ	Lockable Ball Joint Shower Head		
☐ E1L2	Dual Temp. Electronic (w/ Pneutronic Control)*	☐ CSH	Ligature-resistant Shower Head		
☐ PBV	Pressure-Balancing Mixing Valve	FX	Hand-held Flexshower Head (w/ quick disconnec	t,	
☐ TPV	Temperature/Pressure-Balancing Mixing Valve	_	vacuum breaker, and (1) hook)		
TPLR	Ligature-resistant Temp/Pressure-balancing Mixing Valve		, , ,		
SVC	Single Temp. Compression Valve	7.) Other C	ptions:		
DVC	Dual Temp. Compression Valves	TF24H	Hard-wired Transformer, 110VAC to 24VAC* (Star	ndard)	
	·	TF24P	Plug-in Transformer, 110VAC to 24VAC*	,	
3.) Push B	utton Selection:	☐ TMV	Inline Thermostatic Mixing Valve		
Pneumatic	or Electronic Valves Only:	☐ SLB24	24" Adjustable Slide Bar (for Flexshower, Wall Mo	ounted)	
□ PPB	Pneumatic Push Buttons	☐ SD	Surface Mounted Soap Dish		
□ PBH	Ligature-resistant Push Buttons	☐ RD	Recessed Mounted Soap Dish		
EPB	Electronic Push Buttons*	☐ GB	Grab Bar (Wall Mounted, Specify Dimensions):		
EPBH	Ligature-resistant Electronic Push Buttons*				
PZPB	Piezo Electronic Push Buttons*	☐ PS	Pipe Shroud (Specify Length):		
4.) Flow R	ates:	☐ Other			
,	M (Standard) ☐ 2.0 GPM ☐ 1.5 GPM	Other			
2.0 011	(Standard) = 2.0 Gr W	_	DV power through ground fault interrupter (GFCI) re	eceptacle)	
		(Req. 11	ov power through ground fault interrupter (GFCI) re	(ceptacle)	

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



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W)

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:

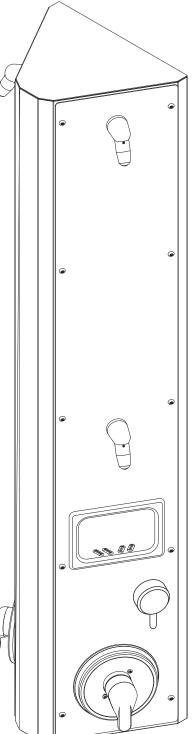
- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- Mounting bracket

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 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.)



(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

MADE IN THE U.S.A.

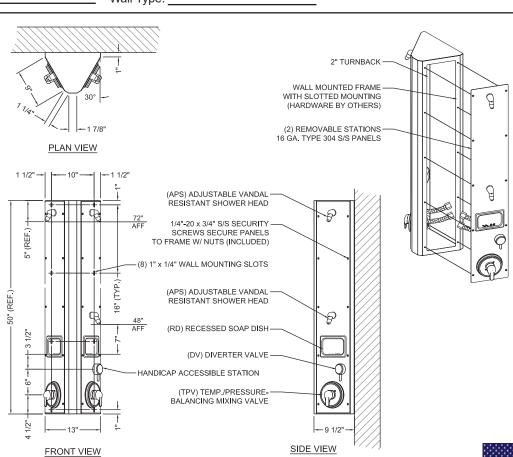
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MODEL	NUMBER	OPT	IONS:
			10110.

1.) Base Mo	odel Number:	5.) Flow Rates:				
CWDS-H	HCA Handicap Accessible, Two Station,	☐ 2.5 GPM (Standard) ☐ 2.0 GPM ☐ 1.5 GPM				
	Surface Mounted Wall Shower					
		6.) Electronic Control* (Must Use Electronic Push Button):				
2.) Valve Se	election:	☐ WUSC-2200 ☐ WUSC-2400 ☐ Pneutronic				
■ NV	No Valve					
□ PML1	Single Temp. Pneumatic Metering	7.) Shower Head Selection:				
	Dual Temp. Pneumatic Metering	APS Adjustable Vandal-resistant Shower Head				
■ E1L1	Single Temp. Electronic (w/ Pneutronic Control)*	NPS Non-Adjustable Vandal-resistant Shower Head				
■ E1L2	Dual Temp. Electronic (w/ Pneutronic Control)*	UBJ Universal Ball Joint Shower Head				
	Pressure-Balancing Mixing Valve	☐ LBJ Lockable Ball Joint Shower Head				
	Temperature/Pressure-Balancing Mixing Valve	☐ CSH Ligature-resistant Shower Head				
_	Ligature-resistant Temp/Pressure-balancing Mixing Valve	☐ FX Hand-held Flexshower Head (w/ quick disconnect,				
☐ SVC	Single Temp. Compression Valve	vacuum breaker, and (1) hook)				
DVC	Dual Temp. Compression Valves	2HD Dual Fixed Shower Heads (replaces (FX) Flexshower				
		head w/ second of the selected fixed Shower Head)				
3.) Diverter	r Valve:					
□ DV	Diverter Valve	8.) Other Options:				
DVLR	Ligature-resistant Diverter Valve	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)				
☐ PML1-M	• .	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*				
	(Used to divert water flow to either upper, lower, or both	☐ TMV Inline Thermostatic Mixing Valve				
	shower heads; for use with Mixing Valve options above)	☐ HL Hi-Lo (2 Hooks For Flexshower)				
		SLB24 24" Adjustable Slide Bar (for Flexshower, Wall Mounted)				
4.) Push Bu	utton Selection:	☐ SD Surface Mounted Soap Dish				
Pneumatic of	or Electronic Valves Only:	RD Recessed Mounted Soap Dish				
_	Pneumatic Push Buttons	☐ GB Grab Bar (Wall Mounted, Specify Dimensions):				
PBH	Ligature-resistant Push Buttons					
EPB	Electronic Push Buttons*	□ PS Pipe Shroud (Specify Length):				
EPBH	Ligature-resistant Electronic Push Buttons*					
PZPB	Piezo Electronic Push Buttons*	Other				
		*(Req. 110V power through ground fault interrupter (GFCI) receptacle)				
Approve	ed For Manufacturing By:	Date: Company:				
	ickness: Wall Type:					

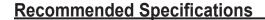
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CWTS Series Three Station Surface Mounted Wall Shower



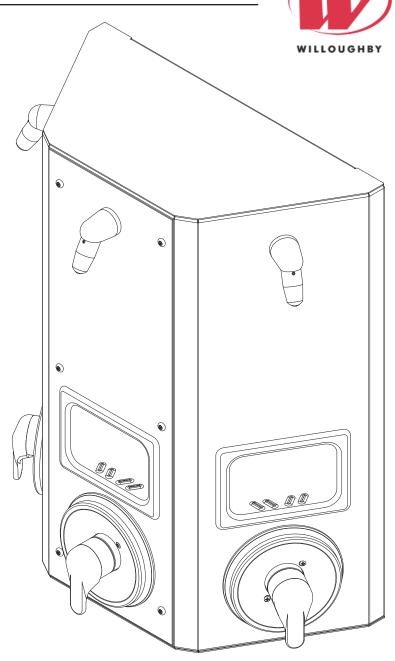
Three Station, Surface Mounted Wall Shower shall be: Willoughby Model No. **CWTS** (Select from model number and options list on next page)

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.



(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

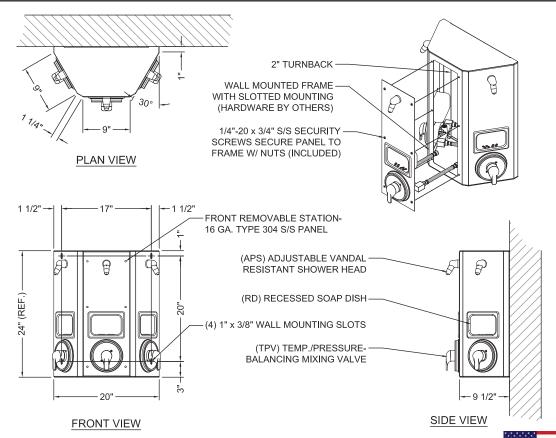
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1.) Base M	odel Number:	5.) Electro	nic Con	trol* (Must Use Electro	onic Push Button):
☐ CWTS	Surface Mounted, Three Station Wall Shower	☐ WUSC	-2200	☐ WUSC-2400	☐ Pneutronic
2.) Valve S	selection:	6.) Showe	r Head S	Selection:	
■ NV	No Valve	APS	Adjusta	able Vandal-resistant Sh	nower Head
☐ PML1	Single Temp. Pneumatic Metering	■ NPS	Non-A	djustable Vandal-resista	ant Shower Head
☐ PML2	Dual Temp. Pneumatic Metering	UBJ	Univer	sal Ball Joint Shower H	ead
■ E1L1	Single Temp. Electronic (w/ Pneutronic Control)*	LBJ	Lockat	ole Ball Joint Shower He	ead
■ E1L2	Dual Temp. Electronic (w/ Pneutronic Control)*	□ CSH	Ligatur	e-resistant Shower Hea	ad
□ PBV	Pressure-Balancing Mixing Valve	□ FX	Hand-l	neld Flexshower Head (w/ quick disconnect,
■ TPV	Temperature/Pressure-Balancing Mixing Valve		vacuur	n breaker, and (1) hook	
■ TPLR	Ligature-resistant Temp/Pressure-balancing Mixing Valve				
■ SVC	Single Temp. Compression Valve	7.) Other (Options:		
DVC	Dual Temp. Compression Valves	☐ TF24H	Hard-w	vired Transformer, 110V	AC to 24VAC* (Standard)
		☐ TF24P	Plug-in	Transformer, 110VAC	to 24VAC*
3.) Push B	utton Selection:	□ TMV	Inline 7	Thermostatic Mixing Val	ve
Pneumatic	or Electronic Valves Only:	☐ SLB24	24" Ad	justable Slide Bar (for F	lexshower, Wall Mounted)
PPB	Pneumatic Push Buttons	☐ SD	Surfac	e Mounted Soap Dish	
PBH	Ligature-resistant Push Buttons	□ RD	Reces	sed Mounted Soap Dish	ı
■ EPB	Electronic Push Buttons*	☐ GB	Grab E	Bar (Wall Mounted, Spe	cify Dimensions):
EPBH	Ligature-resistant Electronic Push Buttons*				
☐ PZPB	Piezo Electronic Push Buttons*	☐ PS	Pipe S	hroud (Specify Length):	
4.) Flow R	ates:	Other			
■ 2.5 GPI	M (Standard) 🔲 2.0 GPM 🔲 1.5 GPM	Other			
		*(Req. 11	0V powe	r through ground fault i	nterrupter (GFCI) receptacle)

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:

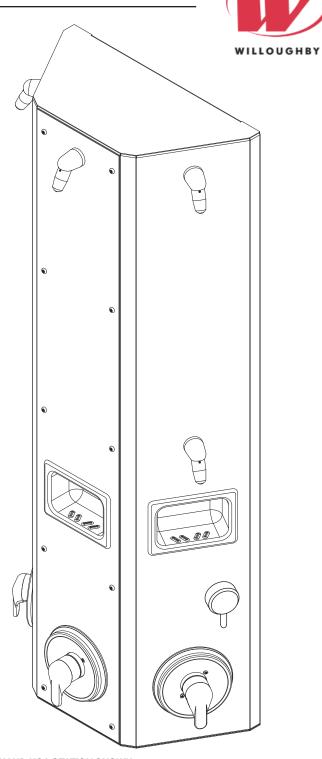
- Shower valves (from Valve Selection options list)
- Shower head (from Shower Head Selection options list)
- Mounting bracket

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 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.)



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

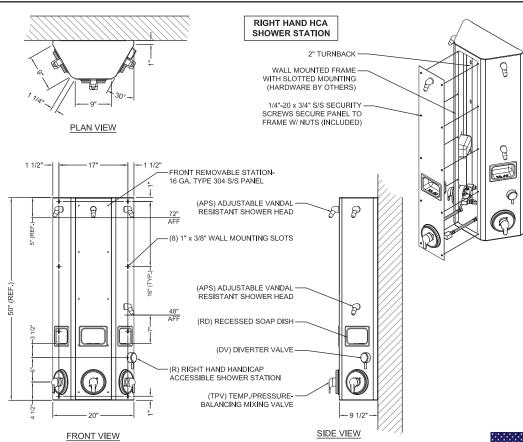
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MODEL	NUMBER	OPT	IONS:

) Base Model Number:	5.) Flow Rates:
CWTS-HCA-R Handicap Accessible, Three Station, Surface Mounted Wall Shower, Right Hand HCA Shower Station	☐ 2.5 GPM (Standard) ☐ 2.0 GPM ☐ 1.5 GPM
CWTS-HCA-L Handicap Accessible, Three Station, Surface Mounted	6.) Electronic Control* (Must Use Electronic Push Button):
Wall Shower, Left Hand HCA Shower Station	☐ WUSC-2200 ☐ WUSC-2400 ☐ Pneutronic
) Valve Selection:	
NV No Valve	7.) Shower Head Selection:
PML1 Single Temp. Pneumatic Metering	APS Adjustable Vandal-resistant Shower Head
PML2 Dual Temp. Pneumatic Metering	■ NPS Non-Adjustable Vandal-resistant Shower Head
E1L1 Single Temp. Electronic (w/ Pneutronic Control)*	☐ UBJ Universal Ball Joint Shower Head
E1L2 Dual Temp. Electronic (w/ Pneutronic Control)*	☐ LBJ Lockable Ball Joint Shower Head
PBV Pressure-Balancing Mixing Valve	☐ CSH Ligature-resistant Shower Head
TPV Temperature/Pressure-Balancing Mixing Valve	☐ FX Hand-held Flexshower Head (w/ quick disconnect,
TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve	vacuum breaker, and (1) hook)
SVC Single Temp. Compression Valve	☐ 2HD Dual Fixed Shower Heads (replaces (FX) Flexshower
DVC Dual Temp. Compression Valves	head w/ second of the selected fixed Shower Head)
) Diverter Valve:	8.) Other Options:
DV Diverter Valve	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
DVLR Ligature-resistant Diverter Valve	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*
PML1-MA2 Two Single Temp. Pneumatic Metering Valves	☐ TMV Inline Thermostatic Mixing Valve
(Used to divert water flow to either upper, lower, or both	☐ HL Hi-Lo (2 Hooks For Flexshower)
shower heads; for use with Mixing Valve options above)	☐ SLB24 24" Adjustable Slide Bar (for Flexshower, Wall Mounted)
	☐ SD Surface Mounted Soap Dish
) Push Button Selection:	RD Recessed Mounted Soap Dish
neumatic or Electronic Valves Only:	GB Grab Bar (Wall Mounted, Specify Dimensions):
PPB Pneumatic Push Buttons	
PBH Ligature-resistant Push Buttons	Pipe Shroud (Specify Length):
EPB Electronic Push Buttons*	
EPBH Ligature-resistant Electronic Push Buttons*	☐ Other
PZPB Piezo Electronic Push Buttons*	*(Req. 110V power through ground fault interrupter (GFCI) receptacle)
Approved For Manutacturing By:	Date: Company:
Approved For Manufacturing By: Wall Type:	Date: Company:

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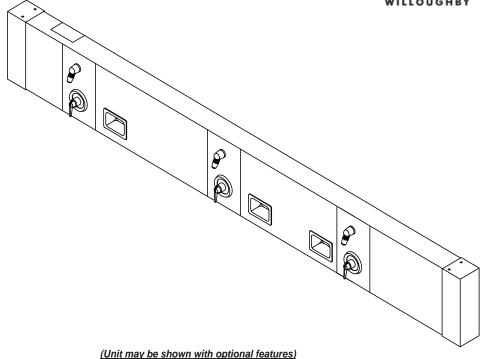
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CWCWS Series Continuous Wall Shower



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.

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

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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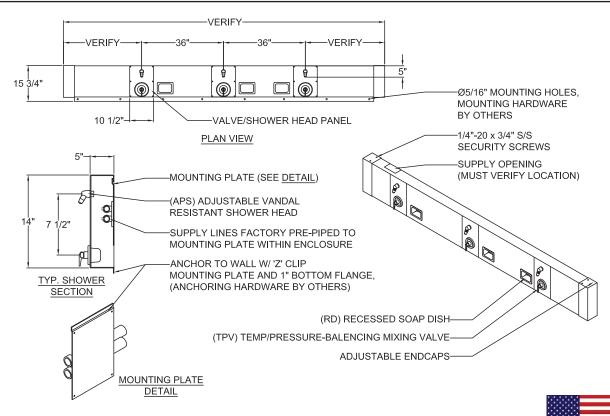
1.) Base M	lodel Number: S Continuous Wall Shower	5.) Flow R	ates: M (Standard)	☐ 2.0 GPM	☐ 1.5 GPM
2.) Shower	r Stations: er of Shower Stations (must specify):	6.) Electro WUSC-	•	Must Use Electro WUSC-2400	onic Push Button): ☐ Pneutronic
3.) Valve S NV PML1 PML2 E1L1 E1L2 PBV TPV	No Valve Single Temp. Pneumatic Metering Dual Temp. Pneumatic Metering Single Temp. Electronic (w/ Pneutronic Control)* Dual Temp. Electronic (w/ Pneutronic Control)* Pressure-Balancing Mixing Valve Temperature/Pressure-Balancing Mixing Valve	7.) Shower APS NPS UBJ CSH FX	Non-Adjustal Universal Ba Lockable Bal Ligature-resi Hand-held Fl	andal-resistant Sh ble Vandal-resista Il Joint Shower He Il Joint Shower He stant Shower Hea	nt Shower Head ead ead d d w/ quick disconnect,
☐ TPLR☐ SVC☐ DVC☐ MA2	Ligature-resistant Temp/Pressure-balancing Mixing Valve Single Temp. Compression Valve Dual Temp. Compression Valves Valve Manifold Option (Pneumatic or Electronic Valves Only): (See the Manifold Option Page at the end of Catalog Section C14 for further information)	8.) Other (TF24H TF24P TMV SD RD	Hard-wired T Plug-in Trans Inline Therma Surface Mou	ransformer, 110VA sformer, 110VAC to ostatic Mixing Valv nted Soap Dish ounted Soap Dish	/e
•	utton Selection: or Electronic Valves Only: Pneumatic Push Buttons Ligature-resistant Push Buttons Electronic Push Buttons* Ligature-resistant Electronic Push Buttons* Piezo Electronic Push Buttons*	GB PS Other Other	Grab Bar (W.	all Mounted, Spec (Specify Length):	sify Dimensions):
Approve	ed For Manufacturing By:	Date:		Compa	nv:

CONTRACTOR SHALL FURNISH TO MANUFACTURER EXACT FIELD DIMENSIONS PRIOR TO FABRICATION

Wall Type:

Wall Thickness:

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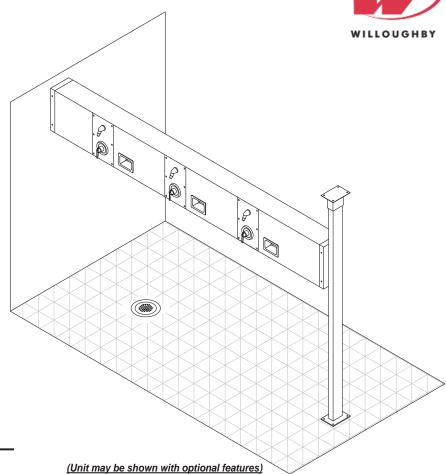
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CWBTBS Series Back-to-Back Continuous Wall Shower



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.

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. <u>Contractor shall furnish to</u> <u>manufacturer exact field dimensions prior to fabrication.</u>

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"

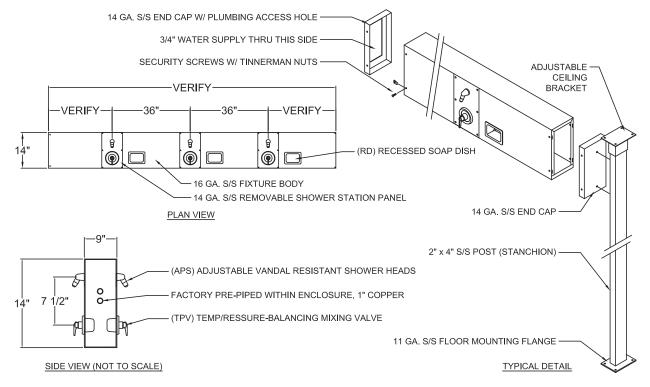
*BASED ON 45 PSI INLET PRESSURE

MADE IN THE **U.S.A**.

1.) Base Model Number:		5.) Flow Rates:	
☐ CWBTE	Back-to-Back Continuous Wall Shower	☐ 2.5 GPM (Standard) ☐ 2.0 GPM ☐ 1.5 GPM	
2.) Showe	r Stations: er of Non-handicap Shower Stations (must specify):	6.) Electronic Control* (Must Use Electronic Push Button): ☐ WUSC-2200 ☐ WUSC-2400 ☐ Pneutronic	
3.) Valve S NV PML1 PML2 E1L1 E1L2 PBV TPV	Selection: No Valve Single Temp. Pneumatic Metering Dual Temp. Pneumatic Metering Single Temp. Electronic (w/ Pneutronic Control)* Dual Temp. Electronic (w/ Pneutronic Control)* Pressure-Balancing Mixing Valve Temperature/Pressure-Balancing Mixing Valve	7.) Shower Head Selection: APS Adjustable Vandal-resistant Shower Head NPS Non-Adjustable Vandal-resistant Shower Head UBJ Universal Ball Joint Shower Head LBJ Lockable Ball Joint Shower Head CSH Ligature-resistant Shower Head FX Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker, and (1) hook)	
☐ TPLR☐ SVC☐ DVC☐ MA2	Ligature-resistant Temp/Pressure-balancing Mixing Valve Single Temp. Compression Valve Dual Temp. Compression Valves Valve Manifold Option (Pneumatic or Electronic Valves Only): (See the Manifold Option Page at the end of Catalog Section C14 for further information)	8.) 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	
,	Sutton Selection: or Electronic Valves Only: Pneumatic Push Buttons Ligature-resistant Push Buttons Electronic Push Buttons* Ligature-resistant Electronic Push Buttons* Piezo Electronic Push Buttons*	PS Pipe Shroud (Specify Length): Other Other *(Req. 110V power through ground fault interrupter (GFCI) receptacle)	
Approv	ed For Manufacturing By:	Date: Company:	_

CONTRACTOR SHALL FURNISH TO MANUFACTURER EXACT FIELD DIMENSIONS PRIOR TO FABRICATION

Wall Type:



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Wall Thickness:



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)

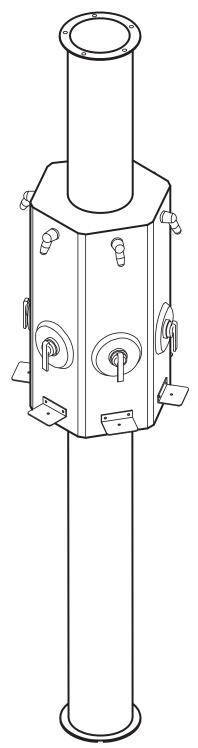
Shower column fabricated from 16 gauge, Type 304 stainless steel with exposed surfaces polished to a #4 satin finish.

Standard equipment shall include:

- 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.



(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 ceiling anchor plate

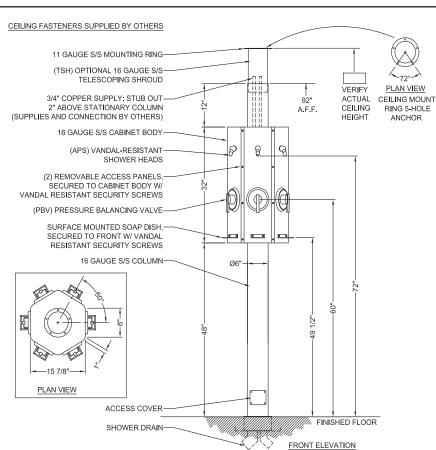
Use the following Willoughby Model Number: CWCSY-6-TPV-2.5-APS-A-CA-SD

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1.) Base M	odel Number:	7.) Shower	Head Selection:
☐ CWCSY Type Y Column Shower		□ APS	Adjustable Vandal-resistant Shower Head
		■ NPS	Non-Adjustable Vandal-resistant Shower Head
2.) Number	r Of Stations:	UBJ	Universal Ball Joint Shower Head
2	□ 3 □ 4 □ 5 □ 6	LBJ	Lockable Ball Joint Shower Head
		□ CSH	Ligature-resistant Shower Head
3.) Valve S	election:	□ FX	Hand-held Flexshower Head (w/ quick disconnect,
■ NV	No Valve		vacuum breaker, and (1) hook)
☐ PML1	Single Temp. Pneumatic Metering		
PML2	Dual Temp. Pneumatic Metering	8.) Supply	And Drain Type:
■ E1L1	Single Temp. Electronic (w/ Pneutronic Control)*	□ A	Supplies Below/Vent Off Line
■ E1L2	Dual Temp. Electronic (w/ Pneutronic Control)*	□ B	Supplies Above/Vent Thru Column
□ PBV	Pressure-Balancing Mixing Valve	□ C	Supplies Below/Vent Thru Column
■ TPV	Temperature/Pressure-Balancing Mixing Valve	D	Supplies Above/Vent Off Line
TPLR	Ligature-resistant Temp/Pressure-balancing Mixing Valve		
☐ SVC	Single Temp. Compression Valve	9.) Other O	ptions:
DVC	Dual Temp. Compression Valves	☐ CA	Ceiling Anchor
		☐ HCA	Handicap Accessible Shower Station (1 station will include:
4.) Push B	utton Selection:		Diverter Valve, Hand-held Flexshower Head, and 1 Flexshower Hook)
Pneumatic	or Electronic Valves Only:	☐ TF24H	Hard-wired Transformer, 110VAC to 24VAC* (Standard)
PPB	Pneumatic Push Buttons	☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*
PBH	Ligature-resistant Push Buttons	■ TMV	Inline Thermostatic Mixing Valve
EPB	Electronic Push Buttons*	☐ SD	Surface Mounted Soap Dish
EPBH	Ligature-resistant Electronic Push Buttons*	RD RD	Recessed Mounted Soap Dish
PZPB	Piezo Electronic Push Buttons*	☐ GB24V	24" Vertically-mounted Grab Bar (Mounted to Shower)
		☐ TSH	Telescoping Pipe Shroud (Specify Ceiling Height):
5.) Flow Ra	ates:	USV	Unit Shut-Off Valve
☐ 2.5 GPN	M (Standard) 🔲 2.0 GPM 🔲 1.5 GPM	Other	
		Other	
6.) Electro	nic Control* (Must Use Electronic Push Button):	*(Req. 110	V power through ground fault interrupter (GFCI) receptacle)
☐ WUSC-	2200 WUSC-2400 Pneutronic		
Approve	ed For Manufacturing By:		Date: Company:
			Sato
Wall III	ickness: Wall Type: _		

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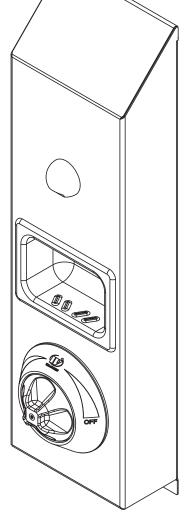


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ASCWSMS Series Ligature-resistant Surface Mounted Wall Shower



Recommended Specifications

Single Station, Ligature-resistant, Surface Mounted Wall Shower shall be: Willoughby Model No. **ASCWSMS** (Select from model number and options list on next page)

Shower panel 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)
- Ligature-resistant push buttons
- (CSH) ligature-resistant shower head
- Ligature-resistant sloped cabinet top
- 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)

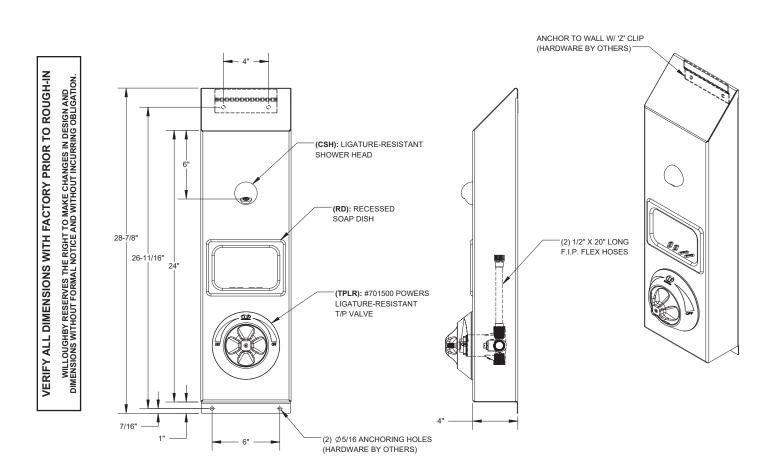
To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Single Station, Ligature-resistant, Surface Mounted Wall Shower with ligature-resistant temp/pressure-balancing mixing valve, standard 2.5 GPM flow rate, standard CSH ligature-resistant shower head, and recessed soap dish

Use the following Willoughby Model Number:
ASCWSMS-TPLR-2.5-CSH-RD

MADE IN THE U.S.A.

1.) Base Model Number:		5.) Electronic Control* (Must Use Electronic Push Button):		
☐ ASCWS	MS Ligature-resistant, Surface Mounted Wall Shower	☐ WUSC-	2200 WUSC-2400 Pneutronic	
2.) Valve S	election:	6.) Shower	Head Options:	
□ NV	No Valve	☐ CSH	Ligature-resistant Shower Head (Standard)	
☐ PML1	Single Temp. Pneumatic Metering	_	,	
PML2	Dual Temp. Pneumatic Metering	7.) Other C	Options:	
☐ E1L1	Single Temp. Electronic (w/ Pneutronic Control)*	•	Hard-wired Transformer, 110VAC to 24VAC* (Standard)	
☐ E1L2	Dual Temp. Electronic (w/ Pneutronic Control)*	☐ TF24P	Plug-in Transformer, 110VAC to 24VAC*	
☐ TPLR	Ligature-resistant Temp/Pressure-balancing Mixing Valve	☐ TMV	Inline Thermostatic Mixing Valve	
_		RD	Recessed Mounted Soap Dish	
3.) Push Bi	utton Selection:	RSD2	Recessed Soap Dish (In-Wall Mounted)	
Pneumatic	or Electronic Valves Only:	ASGB	Ligature-resistant Grab Bar (Wall Mounted, Specify Dimensions):	
PBH	Ligature-resistant Push Buttons			
EPBH	Ligature-resistant Electronic Push Buttons*	□ PS	Pipe Shroud (Wall Mounted, Specify Length):	
PZPB	Piezo Electronic Push Buttons*			
		Other		
4.) Flow Ra	ates:	Other		
☐ 2.5 GPN	// (Standard) ☐ 2.0 GPM ☐ 1.5 GPM	*(Req. 110	OV power through ground fault interrupter (GFCI) receptacle)	
Approve	ed For Manufacturing By:	Date:	Company:	
1	ickness: Wall Type:	_	<u> </u>	
1				



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 MADE IN



ASCWSMS-HCA-2HD Series Ligature-resistant Handicap Accessible Surface Mounted Wall Shower



Recommended Specifications

Ligature-resistant, Handicap Accessible, Surface Mounted Wall Shower shall be:

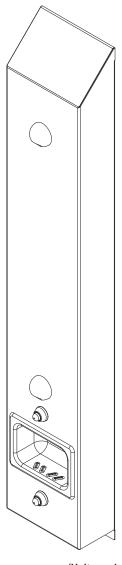
Willoughby Model No. **ASCWSMS-HCA-2HD** (Select from model number and options list on next page)

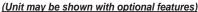
Shower panel shall be fabricated from 16 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Shower valves (from Valve Selection options list)
- Ligature-resistant push buttons
- (CSH) ligature-resistant shower heads
- Ligature-resistant sloped cabinet top
- 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 a Ligature-resistant, Handicap Accessible, Surface Mounted Wall Shower with single temp, pneumatic metering valves (manifolded), standard ligature-resistant pneumatic push buttons, standard 2.5 GPM flow rate, standard CSH ligature-resistant shower heads, thermostatic mixing valve, and recessed soap dish

Use the following Willoughby Model Number:
ASCWSMS-HCA-2HD-PML1-MA2-PBH-2.5-CSH-TMV-RD

Handicap Accessible:

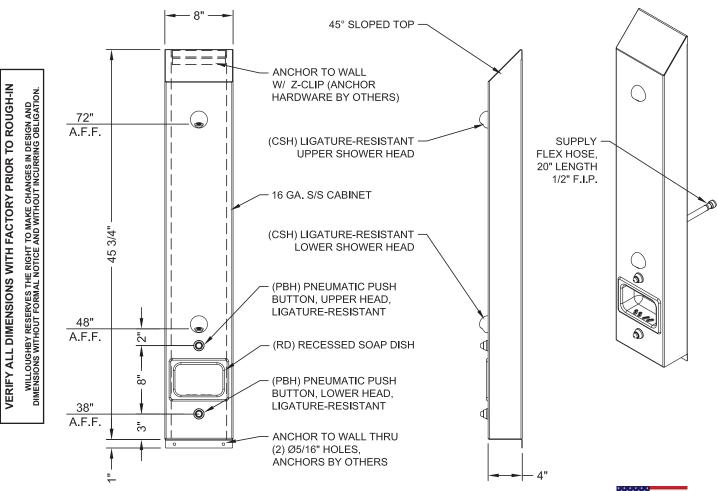
The ASCWSMS-HCA-2HD will conform to most, but not all, ADA requirements; for complete ADA Compliance, see Model No. CWSMS-ADA-WH.

(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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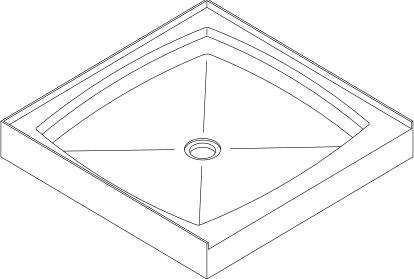
.) Base Model Number:	5.) Flow Rates:		
ASCWSMS-HCA-2HD Ligature-resistant, Handicap Accessible, Surface Mounted Wall Shower	☐ 2.5 GPM (Standard) ☐ 2.0 GPM ☐ 1.5 GPM		
	6.) Electronic Control* (Must Use Electronic Push Button):		
.) Valve Selection:	☐ WUSC-2200 ☐ WUSC-2400 ☐ Pneutronic		
NV No Valve			
☐ PML1 Single Temp. Pneumatic Metering	7.) Shower Head Options:		
PML2 Dual Temp. Pneumatic Metering	CSH Ligature-resistant Shower Heads (Standard)		
☐ E1L1 Single Temp. Electronic (w/ Pneutronic Control)*			
☐ E1L2 Dual Temp. Electronic (w/ Pneutronic Control)*	8.) Other Options:		
TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve	☐ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)		
MA2 Valve Manifold Option (Pneumatic or Electronic Valves Only):	☐ TF24P Plug-in Transformer, 110VAC to 24VAC*		
(See the Manifold Option Page at the end of	☐ TMV Inline Thermostatic Mixing Valve		
Catalog Section C14 for further information)	☐ RD Recessed Mounted Soap Dish**		
	RSD2 Recessed Soap Dish (In-Wall Mounted)		
.) Diverter Valve Option:	☐ ASGB Ligature-resistant Grab Bar (Wall Mounted, Specify Dimensions):		
DVLR Ligature-resistant Diverter Valve			
PML1-MA2 Two Single Temp. Pneumatic Metering Valves	PS Pipe Shroud (Specify Length):		
(Used to divert water flow to either upper, lower, or bo	oth Other		
shower heads; for use with (TPLR) valve option abov	_		
, , , , , , , , , , , , , , , , , , , ,	*(Req. 110V power through ground fault interrupter (GFCI) receptacle)		
.) Push Button Selection: Pneumatic or Electronic Valves Only:	**(When (RD) is used in conjunction with (TPLR) mixing valve or (DVLR) diverted valve, shower cabinet width will increase by 7")		
PBH Ligature-resistant Push Buttons			
■ EPBH Ligature-resistant Electronic Push Buttons*			
-			
Approved For Manufacturing By:	Date: Company:		



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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.

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).



1.) Base Type:

□ AS-S3636
 □ AS-S3648
 □ AS-S3660
 □ AS-S3660
 □ AS-S3660
 □ AS-S3660
 □ AS-S3660

2.) Commercial Wall Kits (1/4" Panels):

☐ ASK-S363684 (3)-36x84 Panels

-36x84 Panels

(2)-AS-IS-CV8 Inside Corner

Cove Overlay

■ ASK-S483684

(2)-36x84 Panels (2)-24x84 Panels

(1)-3x84 Overlay

(2)-AS-IS-CV8 Inside Corner

Cove Overlay

☐ ASK-S603684

(2)-36x84 Panels (2)-29-1/2 x 84 Panels

(1)-3x84 Overlay

(2)-AS-IS-CV8 Inside Corner

Cove Overlay

3.) Accessories:

☐ AS-SSH Soap/Shampoo Holder

4.) Solid Surface Color:

■ BN Bone

☐ GW Glacier White

☐ GG☐ Grey Granite☐ SS☐ Sandstone

☐ WG White Granite

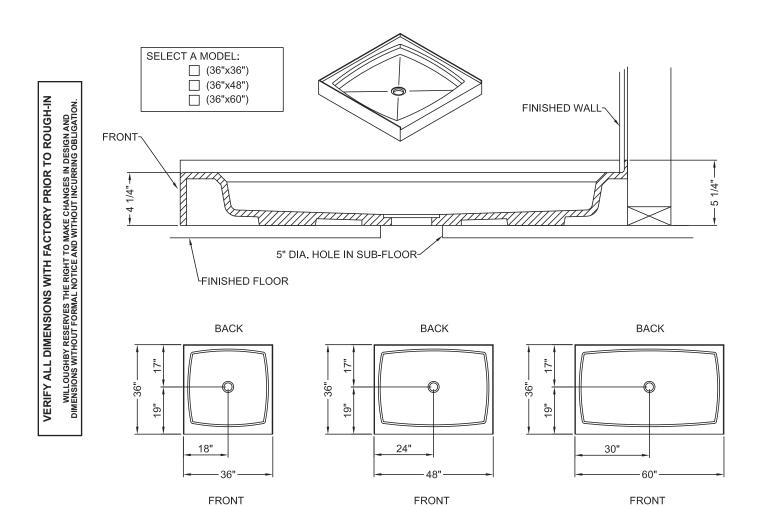
☐ BG Black Granite

☐ NB Nocturnal Blue

RC Red Coral

☐ SG Sea Green

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

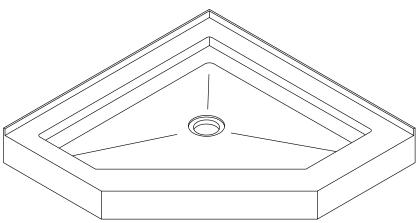


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WILLDIIGHRY

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.

Shower Base shall have integrally molded support bracing on bottom, positive sloped non-slip textured interior floor and integral perimeter flange. Aquasurf® 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:

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).



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1.) Base Type:

☐ AS-S36NEO 36x36 Neo-Angle Base

■ AS-S42NEO 42x42 Neo-Angle Base ■ AS-S36RND 36x36 Round Front Base

2.) Commercial Wall Kits (1/4" Panels):

☐ ASK-S36NEO (2)-36x84 Panels

(2)-18x84 Jamb Panels (3)-AS-IS-CV8 Inside Corner Cove Overlay

■ ASK-S42NEO (2)-42x84 Panels

(2)-24x84 Jamb Panels

(3)-AS-IS-CV8 Inside Corner

Cove Overlay

(2)-36x84 Panels ☐ ASK-S36RND

(1)-AS-IS-CV8 Inside Corner

Cove Overlay

3.) Accessories:

Soap/Shampoo Holder ☐ AS-SSH

4.) Solid Surface Color:

□ BN Bone

☐ GW Glacier White

☐ GG Grey Granite ss Sandstone

☐ WG White Granite

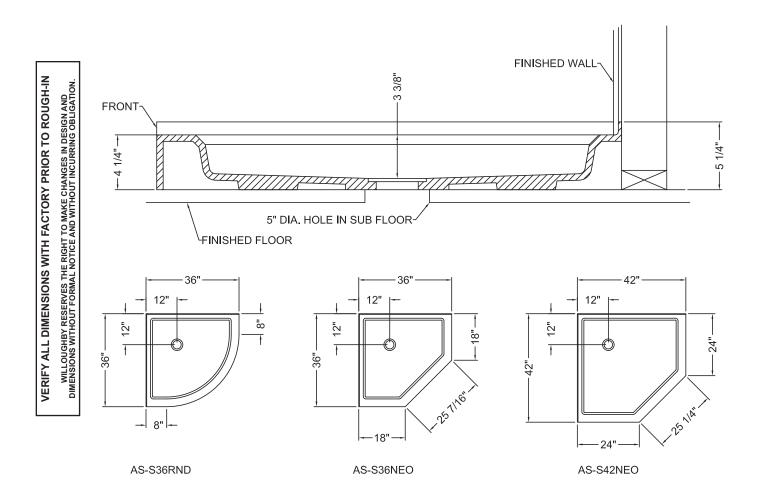
Black Granite

☐ BG ☐ NB Nocturnal Blue

☐ RC Red Coral

□ SG Sea Green

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



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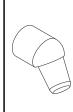
SHOWER HEAD OPTIONS





SHOWER HEAD IS FIXED TYPE.
CONSTRUCTED ENTIRELY OF STAINLESS 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.

(APS) ADJUSTABLE VANDAL-RESISTANT SHOWER HEAD



SHOWER HEAD IS FIXED TYPE.
CONSTRUCTED ENTIRELY OF STAINLESS 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.

(NPS) NON-ADJUSTABLE VANDAL-RESISTANT SHOWER HEAD



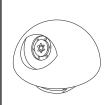
SHOWER HEAD IS CONSTRUCTED FROM CHROME-PLATED BRASS. MOUNTED FROM THE REAR WITH NO REMOVABLE PARTS. THE HEAD SHALL HAVE 3/8" F.I.P. THREADS ON THE INLET. THIS UNIT ALLOWS THE USER TO MOVE THE SHOWER HEAD IN ALL DIRECTIONS AND TO ADJUST THE SPRAY PATTERN.

(UBJ) UNIVERSAL BALL JOINT SHOWER HEAD



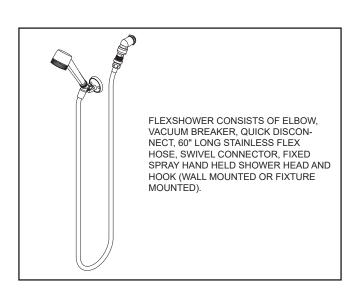
SHOWER HEAD IS CONSTRUCTED FROM CHROME-PLATED BRASS. MOUNTED FROM THE REAR WITH NO REMOVABLE PARTS. THE HEAD SHALL HAVE 3/8" F.I.P. THREADS ON THE INLET. THIS UNIT ALLOWS FOR LOCKING THE SHOWER HEAD IN A MULTITUDE OF DESIRED POSITIONS WITH A SET SCREW. USER CAN ADJUST THE SPRAY PATTERN.

(LBJ) LOCKABLE BALL JOINT SHOWER HEAD



SHOWER HEAD IS FIXED TYPE.
CONSTRUCTED OF TYPE 303 STAINLESS STEEL, MOUNTED FROM THE
REAR WITH NO VISIBLE FASTENERS,
AND SHALL HAVE A30° 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.

(CSH) LIGATURE-RESISTANT SHOWER HEAD



(FX) FLEXSHOWER HEAD

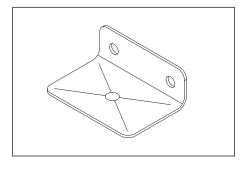


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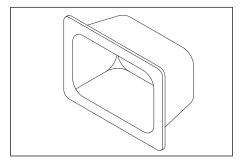
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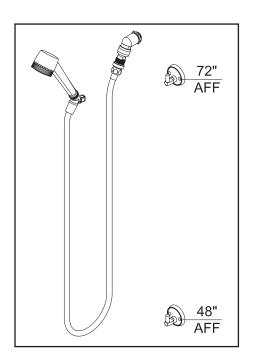
OTHER SHOWER OPTIONS



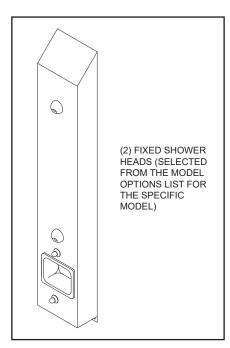
(SD) SURFACE MOUNTED SOAP DISH



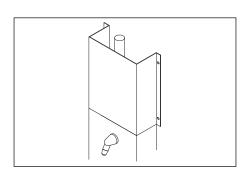
(RD) RECESSED SOAP DISH



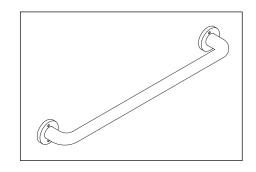
(HL) HI-LO (2 MOUNTING HOOKS FOR FLEXSHOWER)



(2HD) DUAL FIXED SHOWER HEADS



(PS) PIPE SHROUD FOR STANDARD UNITS CONCEALS TOP SUPPLY PIPING

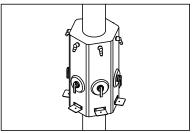


(GB____) GRAB BAR (SPECIFY DIMENSIONS)



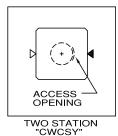
COLUMN SHOWER OPTIONS

BASE MODEL NUMBER

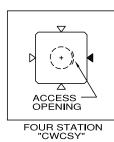


"CWCSY" COLUMN SHOWER

NUMBER OF STATIONS









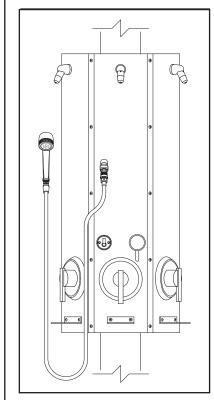


FIVE STATION SIX STATION "CWCSY"



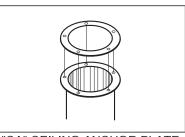
WILLOUGHBY

COLUMN SHOWER OPTIONS (CONT.)

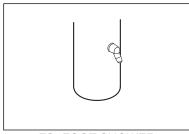


"HCA" HANDICAP ACCESSIBLE COLUMN SHOWER STATION (OPTION ADDS ONE ACCESSIBLE STATION PER COLUMN)

(INCLUDES ELONGATED SHOWER PANELS TO ACCOMMODATE (2) SHOWER HEADS (MOUNTED AT 48" AFF AND 72" AFF), VALVING, AND FEATURES INTENDED TO MEET MOST, BUT NOT ALL, ADA REQUIREMENTS)



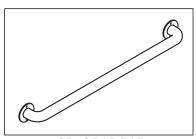
"CA" CEILING ANCHOR PLATE FOR SUPPLY COVER ANCHORING HARDWARE BY OTHERS



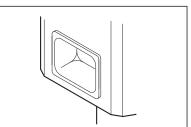
"FS" FOOT SHOWER AT ONE STATION



"HL" HI-LO (INCLUDES (2) FLEXSHOWER HOOKS



"GB" GRAB BAR (SPECIFY DIMENSIONS)

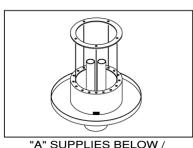


"RD" RECESSED SOAP DISH

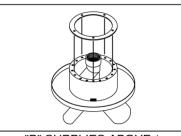


COLUMN SHOWER OPTIONS (CONT.)

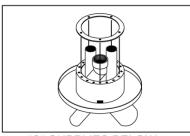
SUPPLY AND DRAIN TYPE



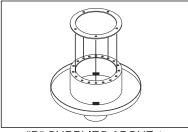
"A" SUPPLIES BELOW / VENT OFF LINE



"B" SUPPLIES ABOVE / VENT THRU COLUMN

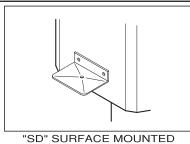


"C" SUPPLIES BELOW / VENT THRU COLUMN



"D" SUPPLIES ABOVE / VENT OFF LINE

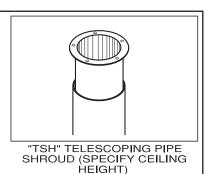
OTHER OPTIONS



SOAP DISH

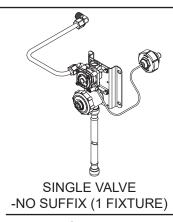


"USV" UNIT SHUT-OFF VALVE



SHOWER VALVE MANIFOLDING OPTION

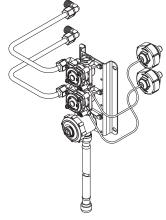




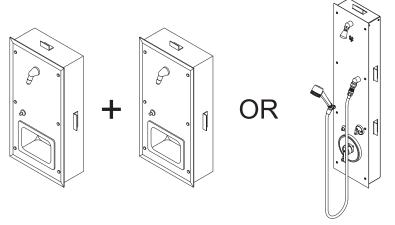
<u>Used for (1) Single shower head fixture:</u>



<u>Used for (2) Single shower head fixtures (Single Temp.) OR</u> (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

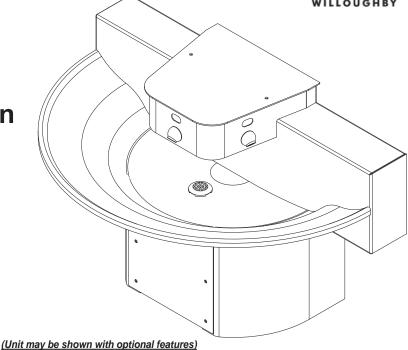
- Reduces installation costs, labor, and materials
- Easier access for maintenance
- Adds flexibility and simplicity to your shower design needs

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**







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 25-80 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 preassembled.

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.

* 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:

☐ 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:

☐ JR Junior Height (31" Rim Height, not ADA Compliant)

4.) Valve Actuation:

□ PPB1 Standard Pneumatic Push Buttons for Single
 □ Temperature Pneumatic Metering Valves
 □ PZPB1 Piezo Electronic Push Buttons for Single

Temperature Electronic Valves (w/ Pneutronic Control)*

□ IR Infrared Sensors, Hard-wired*
 □ BO Infrared Sensors, Battery Operated
 □ FO Foot Operated Pneumatic Push Buttons

(Not ADA Compliant, Requires FLR Floor Mounted Pedestal)

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

	5.	Other	Options:
--	----	-------	----------

Other

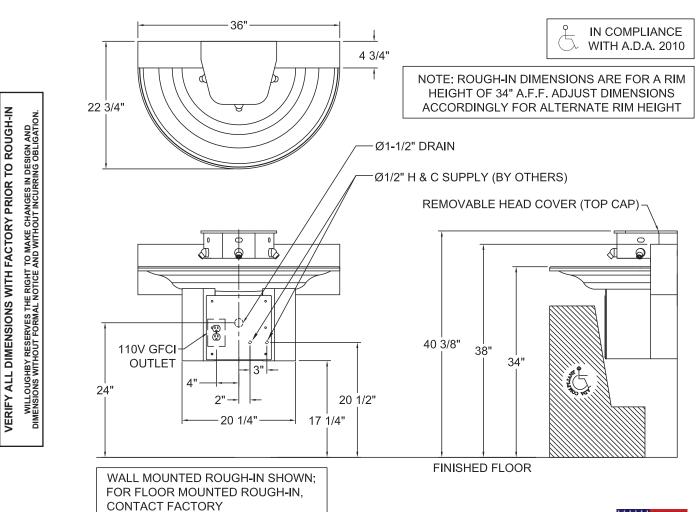
☐ LSD Liquid Soap Dispensers (2)

□ TL Less In-line Thermostatic Mixing Valve
□ SSC Stainless Steel Head Cover (Top Cap)
□ KPWF Wall Mounted Stainless Steel Kick Plate

(For wall-mounted pedestal only)☐ LSH1.5 gpm Laminar Flow Sprayheads

Other

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



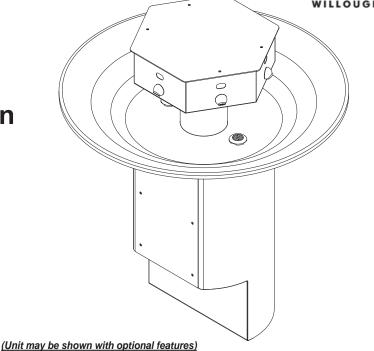
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WWF-3606 Six Station **Full Round** 36" Stainless Steel **Deep Bowl Washfountain**







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 25-80 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. Willoughby 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:

☐ WWF-3606 6 Station Full Round 36" Stainless Steel,

Deep Bowl Washfountain

2.) Pedestal Mounting:

☐ FLR Floor Mounted (Standard)

3.) Junior Height Option:

☐ JR Junior Height (31" Rim Height, JR. ADA Compliant)

4.) Valve Actuation:

□ PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering Valves
 □ PZPB1 Piezo Electronic Push Buttons for Single

PZPB1 Piezo Electronic Push Buttons for Single
Temperature Electronic Valves (w/ Pneutronic Control)*

□ IR Infrared Sensors, Hard-wired*□ BO Infrared Sensors, Battery Operated

☐ FO Foot Operated Pneumatic Push Buttons (Not ADA Compliant)

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

5.) Water Supply:

☐ SB Supply From Below (Standard)

☐ SA Supply From Above (**Option** (TSHWF) recommended)

6.) Other Options:

☐ LSD Liquid Soap Dispensers (2)

☐ TL☐ Less In-line Thermostatic Mixing Valve☐ SSC☐ Stainless Steel Head Cover (Top Cap)

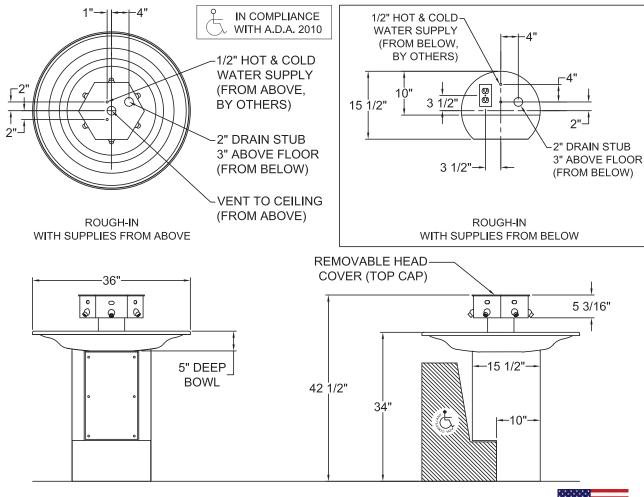
☐ TSHWF Telescoping Washfountain Shroud (For use on (SA) models only)

☐ LSH 1.5 gpm Laminar Flow Sprayheads

Other ____

☐ Other

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



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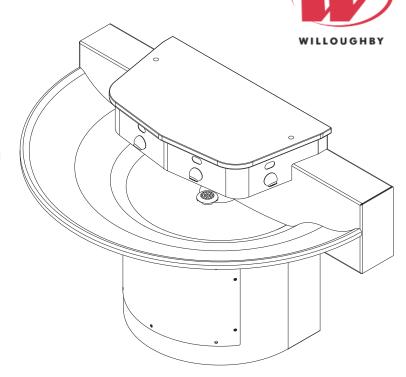
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WWF-4203/4204 Three and Four Station Half Round 42" Stainless Steel Deep Bowl Washfountain





(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page. $\label{eq:constraint}$

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 25-80 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. Willoughby 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/ floor-based 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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5.) Other Options:

1.) Base Model Number:

☐ WWF-4203 3 Station Half Round 42" Stainless Steel,

Deep Bowl Washfountain

☐ WWF-4204 4 Station Half Round 42" Stainless Steel,

Deep Bowl Washfountain

2.) Pedestal Mounting:

■ WALL Wall Mounted (Standard)

☐ FLR Floor Mounted (Not ADA Compliant)

3.) Junior Height Option:

☐ JR Junior Height (31" Rim Height, Wall Mounted JR. ADA Compliant;

Floor Mounted Not ADA Compliant)

4.) Valve Actuation:

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C15-6

☐ PPB1 Standard Pneumatic Push Buttons for Single

Temperature Pneumatic Metering Valves

□ PZPB1 Piezo Electronic Push Buttons for Single

Temperature Electronic Valves (w/ Pneutronic Control)*

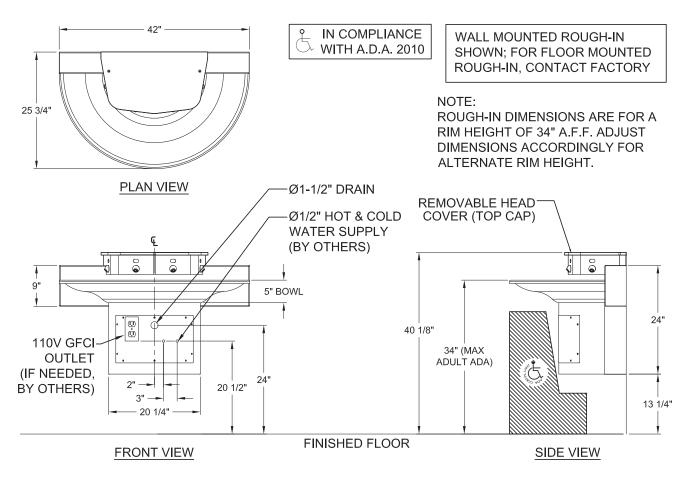
□ IR Infrared Sensors, Hard-wired*
 □ BO Infrared Sensors, Battery Operated
 □ FO Foot Operated Pneumatic Push Buttons

(Not ADA Compliant, Requires FLR Floor Mounted Pedestal)

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

☐ TL☐ SSC☐ KPWF	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
LSH Other	(For wall-mounted pedestal only) 1.5 gpm Laminar Flow Sprayheads





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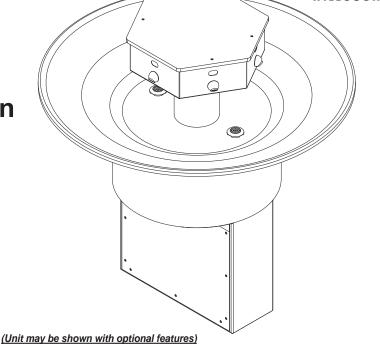
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WWF-4206 Six Station **Full Round** 42" Stainless Steel

Deep Bowl Washfountain







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 25-80 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. Willoughby 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:

☐ WWF-4206 6 Station Full Round 42" Stainless Steel.

Deep Bowl Washfountain

2.) Pedestal Mounting:

☐ FLR Floor Mounted (Standard)

3.) Junior Height Option:

☐ JR Junior Height (31" Rim Height, not ADA Compliant)

4.) Valve Actuation:

□ PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering Valves

□ PZPB1 Piezo Electronic Push Buttons for Single

Temperature Electronic Valves (w/ Pneutronic Control)*

□ IR Infrared Sensors, Hard-wired*□ BO Infrared Sensors, Battery Operated

☐ FO Foot Operated Pneumatic Push Buttons (Not ADA Compliant)

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

5.) Water Supply:

☐ SB Supply From Below (Standard)

☐ SA Supply From Above (**Option** (TSHWF) recommended)

6.) Other Options:

☐ LSD Liquid Soap Dispensers

☐ TL Less In-line Thermostatic Mixing Valve
☐ SSC Stainless Steel Head Cover (Top Cap)

☐ TSHWF Telescoping Washfountain Shroud

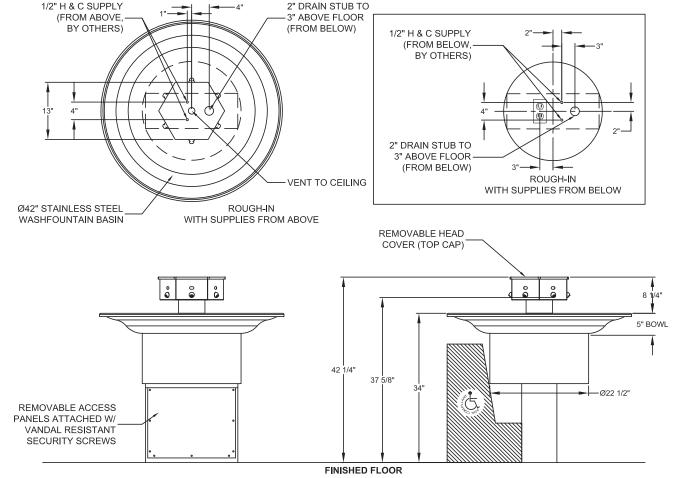
(For use on (SA) models only)

☐ LSH 1.5 gpm Laminar Flow Sprayheads

Other ____

☐ Other ____

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



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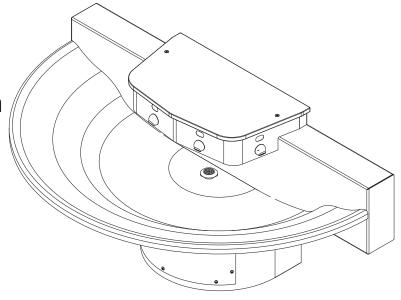
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WWF-5403/5404 Three and Four Station Half Round 54" Stainless Steel Deep Bowl Washfountain





(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 25-80 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. Willoughby 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/ floor-based 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	NUM	IBFR	OPI	TIONS:
	14011		\mathbf{v}	10110.

1.) Base Model Number:

☐ WWF-5403 3 Station Half Round 54" Stainless Steel,

Deep Bowl Washfountain

☐ WWF-5404 4 Station Half Round 54" Stainless Steel,

Deep Bowl Washfountain

2.) Pedestal Mounting:

■ WALL Wall Mounted (Standard)

☐ FLR Floor Mounted

3.) Junior Height Option:

☐ JR Junior Height (31" Rim Height, JR. ADA Compliant)

4.) Valve Actuation:

☐ PPB1 Standard Pneumatic Push Buttons for Single

Temperature Pneumatic Metering Valves Piezo Electronic Push Buttons for Single

□ PZPB1 Piezo Electronic Push Buttons for Single
Temperature Electronic Valves (w/ Pneutronic Control)*

□ IR Infrared Sensors, Hard-wired*
 □ BO Infrared Sensors, Battery Operated
 □ FO Foot Operated Pneumatic Push Buttons

(Not ADA Compliant, Requires FLR Floor Mounted Pedestal)

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

E '	Othor	Options:
υ.	, Other	ODUIOUS.

☐ LSD Liquid Soap Dispensers (2)

☐ TL Less In-line Thermostatic Mixing Valve☐ SSC Stainless Steel Head Cover (Top Cap)

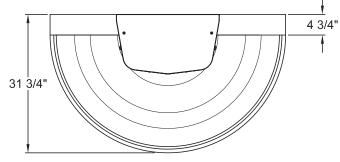
☐ KPWF Wall Mounted Stainless Steel Kick Plate

(For wall-mounted pedestal only)

☐ LSH 1.5 gpm Laminar Flow Sprayheads

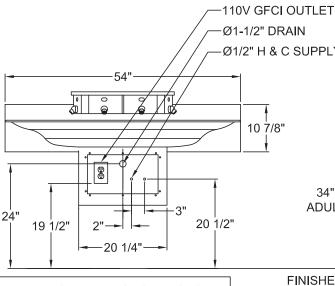
□ Other□ Other

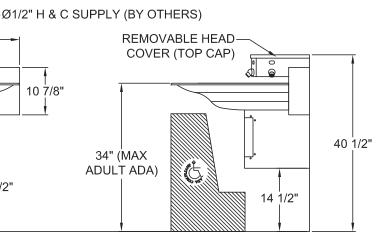
Approved For Manufacturing By: ______ Date: _____ Company: _____ Wall Type: _____



IN COMPLIANCE WITH A.D.A. 2010

ROUGH-IN DIMENSIONS ARE FOR RIM HEIGHT 34" AFF. ADJUST DIMENSIONS ACCORDINGLY FOR ALTERNATE RIM HEIGHT.





WALL MOUNTED ROUGH-IN SHOWN FOR FLOOR MOUNTED ROUGH-IN CONTACT FACTORY

FINISHED FLOOR

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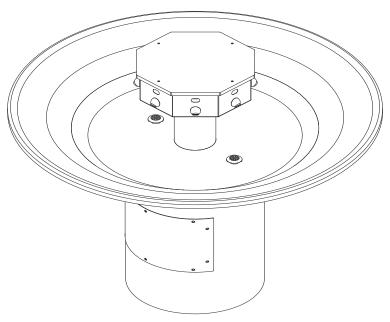
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WWF-5406/5408
Six and Eight Station
Full Round
54" Stainless Steel
Deep Bowl Washfountain





(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 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 transformers (as needed)*. Operating supply water pressure range is 25-80 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 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. Willoughby washfountains can be ordered with 31" rim heights for juvenile use (JR) (Junior ADA Compliant).

* <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: 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

Piezo Electronic Push Buttons for Single

Foot Operated Pneumatic Push Buttons (Not ADA Compliant)

*(Reg. 110V power through ground fault interrupter (GFCI) receptacles)

Infrared Sensors, Hard-wired*
Infrared Sensors, Battery Operated

Temperature Electronic Valves (w/ Pneutronic Control)*

□ PZPB1

☐ IR

□ BO□ FO

Approved For Manufacturing By: ___ Company: Wall Type: Wall Thickness: _ -Ø2" DRAIN, STUB 3" ABOVE FLOOR IN COMPLIANCE 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 9.0 8.8 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" ACCESS PANEL W/ VANDAL RESISTANT 34' SECURITY SCREWS 27 1/2" 14 GA, S/S BASE

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CEL-2817-2 / 4818-3 Multi-station Stainless Steel Washfountain





Recommended Specifications

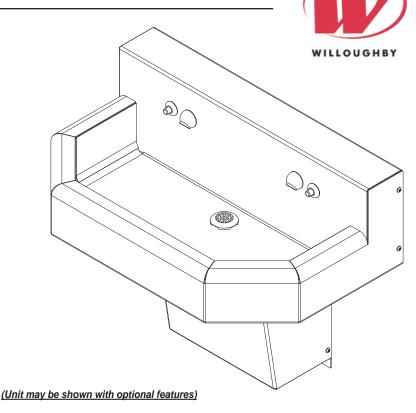
Multi-station, Stainless Steel Washfountain shall be: Willoughby Model No. **CEL-__** (select from model number and options list on next page)

Washfountain 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 washfountains 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 plugin transformers (as needed)*.



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

Example: To specify a Multi-station, Stainless Steel Washfountain with 2 stations, and hard-wired infrared sensors

Use the following Willoughby Model Number:

CEL-2817-2-IR

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.

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 Washfountain, 28" Width ☐ CEL-4818-3 CEL-Series 3 Station Washfountain, 48" Width

2.) Junior Height Option:

☐ JR Junior Height (31" Rim Height, JR. ADA Compliant)

3.) Valve Actuation:

□ PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering Valves
 □ PZPB1 Piezo Electronic Push Buttons for Single

Temperature Electronic Valves (w/ Pneutronic Control)*

□ IR Infrared Sensors, Hard-wired*□ BO Infrared Sensors, Battery Operated

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

4.) Other Options:

☐ TL Less In-line Thermostatic Mixing Valve

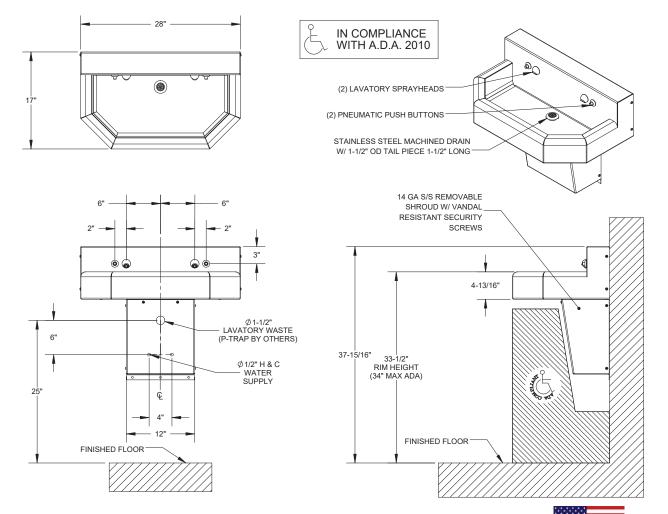
■ LE Less Trap Enclosure

☐ DC Decorator Color (Fixture exterior only - White)

□ LSH□ Other□ Other

Other

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

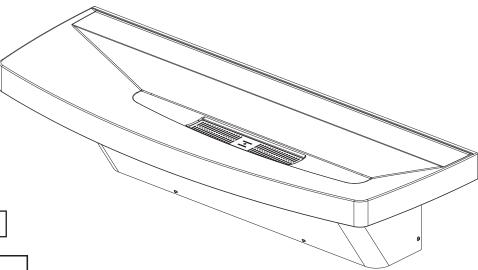


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WELS-2260 Envy Series Two Station Solid Surface Lavatory System



PATENT PENDING



(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, and mineral fillers.

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.

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.)

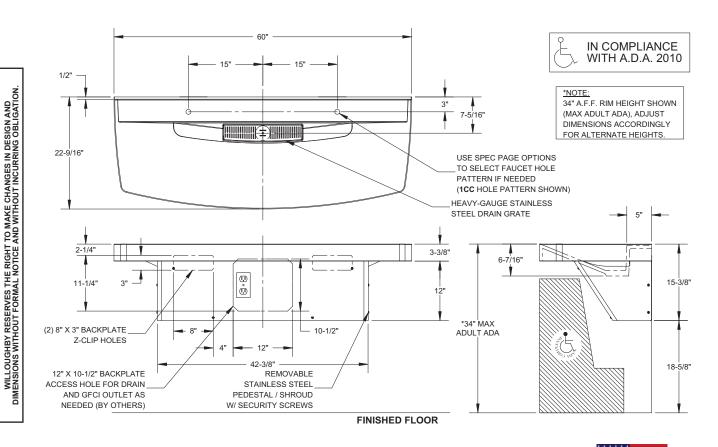
Optional Features:

Envy Lavatory Systems offer a wall mounted stainless steel kick plate (KPWV) for installations with floor-based plumbing rough-ins.

1.) Washfo	untain Model:	5.) Solid S	urface Colors:
☐ WELS-2	2260 Envy Series Two Station Solid Surface Lavatory System	■ BN	Bone
		☐ GW	Glacier White
2.) Pedesta	al Type:	☐ GG	Grey Granite
■ WALL	Wall Mounted, Low-profile, All-Stainless Steel Shroud (Standard)	□ SS	Sandstone
		■ WG	White Granite
3.) Junior I	Height Option:	□ BG	Black Granite
JR	Junior Height (31" Rim Height, JR. ADA Compliant)	■ NB	Nocturnal Blue
		□ RC	Red Coral
4.) Faucet	Drilling:	□ SG	Sea Green
■ NV	No Valve, No Faucet Holes (Standard)		
☐ 4CC	Set of 4" Centerset, Ø1" Holes (Specify 2 or 3 holes:)	6.) Other C	Options:
□ 8CC	Set of 8" Centerset, Ø1" Holes (Specify 2 or 3 holes:)	KPEV	Wall Mounted Stainless Steel Kick Plate
☐ 1CC	Center Shank, (1) Ø1" Hole	Other	
□ SP	Special Drilling (Specify hole diameter and dimensions)	Other	
	SP:		

PATENT PENDING

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

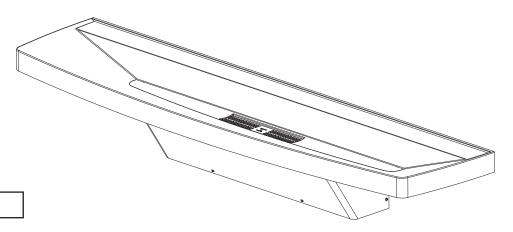


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WELS-2290
Envy Series
Three Station
Solid Surface
Lavatory System



PATENT PENDING



(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, and mineral fillers.

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.

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.)

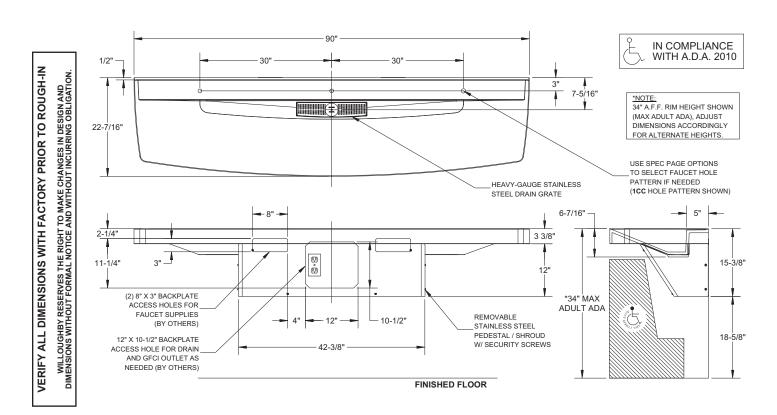
Optional Features:

Envy Lavatory Systems offer a wall mounted stainless steel kick plate (KPWV) for installations with floor-based plumbing rough-ins.

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	Il Type:	☐ GG	Grey Granite
■ WALL	Wall Mounted, Low-profile, All-Stainless Steel Shroud (Standard)	□ SS	Sandstone
		■ WG	White Granite
3.) Junior H	Height Option:	□ BG	Black Granite
□ JR	Junior Height (31" Rim Height, JR. ADA Compliant)	■ NB	Nocturnal Blue
		□ RC	Red Coral
4.) Faucet I	Drilling:	☐ SG	Sea Green
■ NV	No Valve, No Faucet Holes (Standard)		
☐ 4CC	Set of 4" Centerset, Ø1" Holes (Specify 2 or 3 holes:)	6.) Other C	Options:
☐ 8CC	Set of 8" Centerset, Ø1" Holes (Specify 2 or 3 holes:)	KPEV	Wall Mounted Stainless Steel Kick Plat
☐ 1CC	Center Shank, (1) Ø1" Hole	Other	
□ SP	Special Drilling (Specify hole diameter and dimensions)	Other	
	SP:		

PATENT PENDING

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

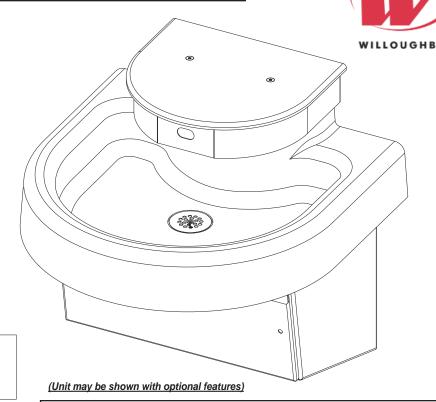


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WAW-2311 AquaWave® Single Station Solid Surface Lavatory System





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.

AquaWave® Lavatory System shall accommodate 1 user. The lavatory system 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 and mineral fillers. The pre-assembled water distribution head and low-profile pedestal base shall be constructed of heavy gauge, Type 304 stainless steel (the pedestal backplate is galvanized). 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 25-80 PSI.

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:

The lavatory is designed 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.

* <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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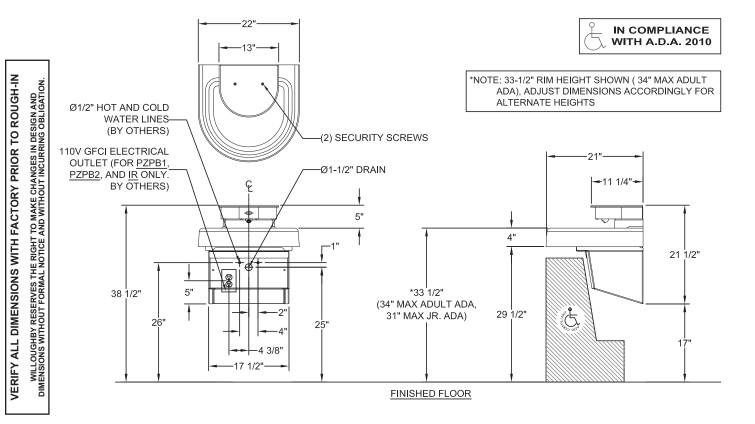
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1.)	1.) Washfountain Model: 4.) Solid Surface Colors:				
	WAW-2311	AquaWave® 1 Station Solid Surface Lavatory System	■ BN	Bone	
			☐ GW	Glacier White	
2.)	Pedestal Type	:	☐ GG	Grey Granite	
	WALL	Wall Mounted, Low-profile, with Solid Surface Panels (Standard)	□ SS	Sandstone	
	WSPS	Wall Mounted, Low-profile, All-Stainless Steel Shroud	■ WG	White Granite	
			□ BG	Black Granite	
3.)	Valve Actuation	on:	■ NB	Nocturnal Blue	
	PPB1	Standard Pneumatic Push Button for Single Temperature	☐ RC	Red Coral	
		Pneumatic Metering	☐ SG	Sea Green	
	PPB2	Standard Pneumatic Push Buttons for Dual Temperature			
		Pneumatic Metering	5.) Other Op	otions:	
	PZPB1	Piezo Electronic Push Button for Single Temperature Electronic	LSDM	Liquid Soap Dispenser- Deck-mounted Spout and Bottle	
		(w/ Pneutronic Control)*	☐ TL	Less In-line Thermostatic Mixing Valve	
	PZPB2	Piezo Electronic Push Buttons for Dual Temperature Electronic	□ LSH	1.5 gpm Laminar Flow Sprayhead	
		(w/ Pneutronic Control)*	Other _		
	IR	Infrared Sensors, Hard-wired*	Other _		
	ВО	Infrared Sensors, Battery Operated			

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

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



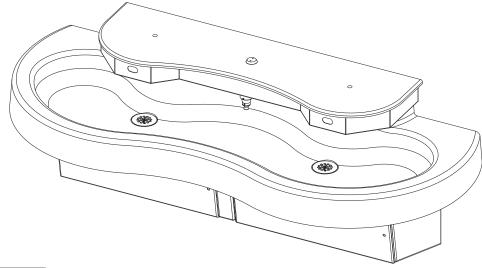
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WAW-2322
AquaWave®
Two Station
Solid Surface
Lavatory System





(Unit may be shown with optional features)

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

Example: To specify a two station AquaWave® lavatory with standard wall mounting (34" rim height), hard-wired infrared sensors, Glacier White color, and liquid soap dispenser

Use the following Willoughby Model Number: WAW-2322-WALL-IR-GW-LSD

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, top, and pedestal panels are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. The pre-assembled water distribution head and low-profile pedestal base shall be constructed of heavy gauge, Type 304 stainless steel (the pedestal backplate is galvanized). 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 25-80 PSI.

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:

The lavatory is designed 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.

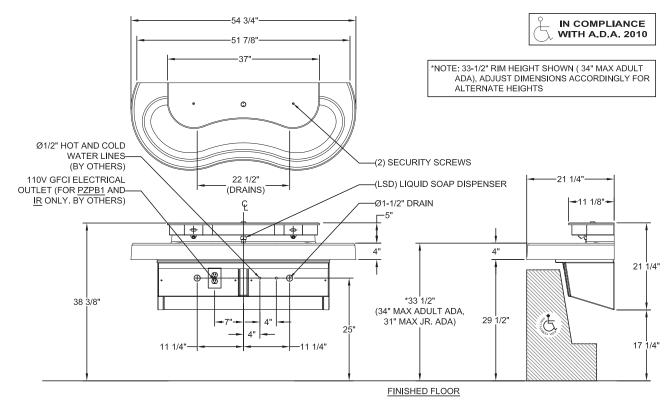
* <u>Note:</u> Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

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1.) Washfountain	Model:	5.)	Solid Su	rface Colors:
■ WAW-2322	AquaWave® 2 Station Solid Surface Lavatory System		BN	Bone
			GW	Glacier White
2.) Pedestal Type	e:		GG	Grey Granite
☐ WALL	Wall Mounted, Low-profile, with Solid Surface Panels (Standard)		SS	Sandstone
■ WSPS	Wall Mounted, Low-profile, All-Stainless Steel Shroud		WG	White Granite
			BG	Black Granite
3.) Junior Height	Option:		NB	Nocturnal Blue
☐ JR	Junior Height (31" Rim Height, JR. ADA Compliant)		RC	Red Coral
			SG	Sea Green
4.) Valve Actuation	on:			
■ PPB1	Standard Pneumatic Push Buttons for Single	6.)	Other Op	otions:
	Temperature Pneumatic Metering		LSD	Liquid Soap Dispenser (1)
□ PZPB1	Piezo Electronic Push Buttons for Single		TL	Less In-line Thermostatic Mixing Valve
	Temperature Electronic (w/ Pneutronic Control)*		KPWV	Wall Mounted Stainless Steel Kick Plate
☐ IR	Infrared Sensors, Hard-wired*		LSH	1.5 gpm Laminar Flow Sprayheads
□ во	Infrared Sensors, Battery Operated		Other _	
			Other _	
*(Req. 110V pov	ver through ground fault interrupter (GFCI) receptacle)			

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



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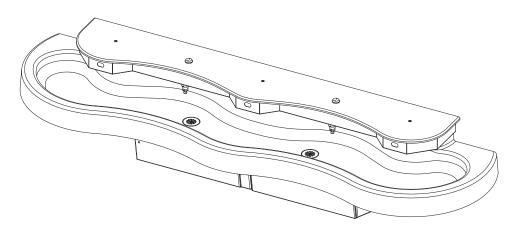
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WAW-2333
AquaWave®
Three Station
Solid Surface
Lavatory System





(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

AquaWave® 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, top, and pedestal panels are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. The pre-assembled water distribution head and low-profile pedestal base shall be constructed of heavy gauge, Type 304 stainless steel (the pedestal backplate is galvanized). 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 25-80 PSI.

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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:

The lavatory is designed 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.

* <u>Note:</u> Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

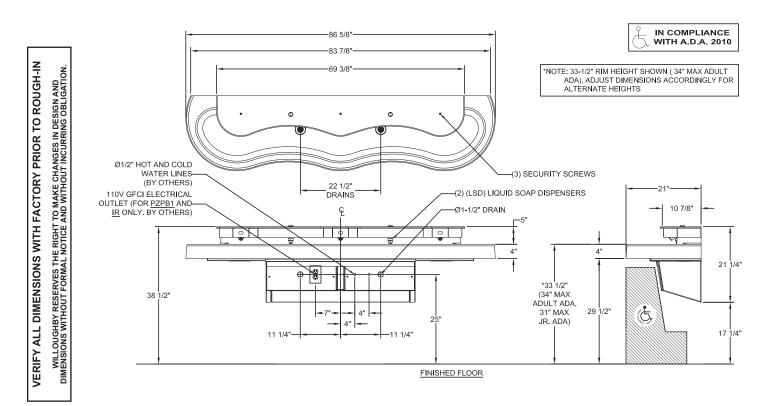
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C16-9

1.) Washfountain	n Model:	5.) Solid S	Surface 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, with Solid Surface Panels (Standard)	□ SS	Sandstone
■ WSPS	Wall Mounted, Low-profile, All-Stainless Steel Shroud	■ WG	White Granite
		□ BG	Black Granite
3.) Junior Heigh	t Option:	■ NB	Nocturnal Blue
□ JR	Junior Height (31" Rim Height, JR. ADA Compliant)	□ RC	Red Coral
		☐ SG	Sea Green
4.) Valve Actuati	on:		
■ PPB1	Standard Pneumatic Push Buttons for Single	6.) Other (Options:
	Temperature Pneumatic Metering	☐ LSD	Liquid Soap Dispensers (2)
□ PZPB1	Piezo Electronic Push Buttons for Single	☐ TL	Less In-line Thermostatic Mixing Valve
	Temperature Electronic (w/ Pneutronic Control)*	☐ KPWV	Wall Mounted Stainless Steel Kick Plate
□ IR	Infrared Sensors, Hard-wired*	□ LSH	1.5 gpm Laminar Flow Sprayheads
□ во	Infrared Sensors, Battery Operated	Other	
		Other	
*(Req. 110V po	wer through ground fault interrupter (GFCI) receptacle)		

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



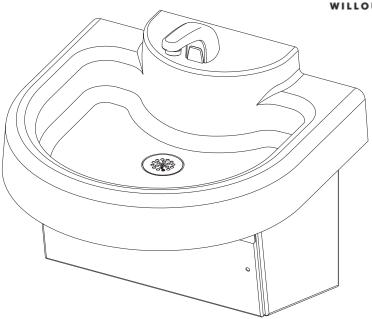
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WAW-2311-DMF

AquaWave®
Single 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 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 and pedestal panel are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. The pre-assembled low-profile pedestal base and included drain grate shall be constructed of heavy gauge, Type 304 stainless steel (the pedestal backplate is galvanized). Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Vandal resistance:

Valve (by others), water supplies, and waste connection 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:

The lavatory is designed 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.



1.) Washfountain Model:		4.) Solid Surface Colors:			
☐ WA	AW-231	1-DMF	AquaWave® 1 Station Solid Surface Lavatory System	■ BN	Bone
			for Deck Mounted Faucet	☐ GW	Glacier White
				☐ GG	Grey Granite
2.) Pe	destal	Type:		□ SS	Sandstone
☐ WA	ALL	Wa	Il Mounted, Low-profile, with Solid Surface Panels (Standard)	WG	White Granite
☐ WS	SPS	Wa	ll Mounted, Low-profile, All-Stainless Steel Shroud	BG	Black Granite
				■ NB	Nocturnal Blue
3.) Fai	ucet D	rilling:		RC RC	Red Coral
■ NV	/	No Valve	e, No Faucet Holes (Standard)	☐ SG	Sea Green
□ 4C	CC	Set of 4"	Centerset, Ø1" Holes (Specify 2 or 3 holes:)		
□ 8C	C	Set of 8"	Centerset, Ø1" Holes (Specify 2 or 3 holes:)	5.) Othe	er Options:
□ 1C	CC	Center S	Shank, (1) Ø1" Hole	LSDI	M Liquid Soap Dispenser- Deck-mounted Spout and Bottle
☐ SP)	Special [Orilling (Specify hole diameter and dimensions)	Othe	r
		SP:		Othe	r

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

22' IN COMPLIANCE **DMF** WITH A.D.A. 2010 -11 1/8"· *NOTE: 33-1/2" RIM HEIGHT SHOWN (34" MAX ADULT ADA), ADJUST DIMENSIONS ACCORDINGLY FOR ALTÉRNATE HEIGHTS **®** SPECIFY SIZE AND Ø1/2" HOT AND COLD LOCATION OF WATER LINES-FAUCET HOLES (BY OTHERS) 110V GFCI ELECTRICAL OUTLET (AS NEEDED, -Ø1-1/2" DRAIN BY OTHERS) -6 1/8" 18 1/2" 5" 35 1/2" *33 1/2" (34" MAX ADULT ADA, Ġ 31" MAX JR. ADA) 29 1/2" 25" 4 3/8" -17 1/2"-FINISHED FLOOR

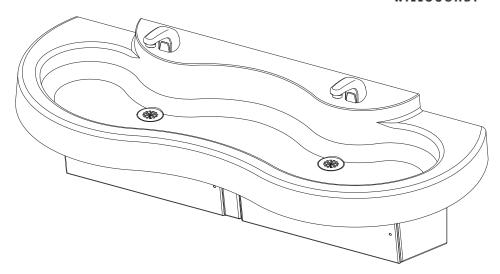
visit our website at www.willoughby-ind.com 5105 West 78th Street ● Indianapolis, IN. 46268 (317) 875-0830 ● Fax: (317) 875-0837 ● (800) 428-4065 MADE IN THE **U.S.A**.

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WILLOUGHRY

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 and pedestal panels are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. The preassembled low-profile pedestal base and included drain grates shall be constructed of heavy gauge, Type 304 stainless steel (the pedestal backplate is galvanized). Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Vandal resistance:

Valves (by others), 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:

The lavatory is designed 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).

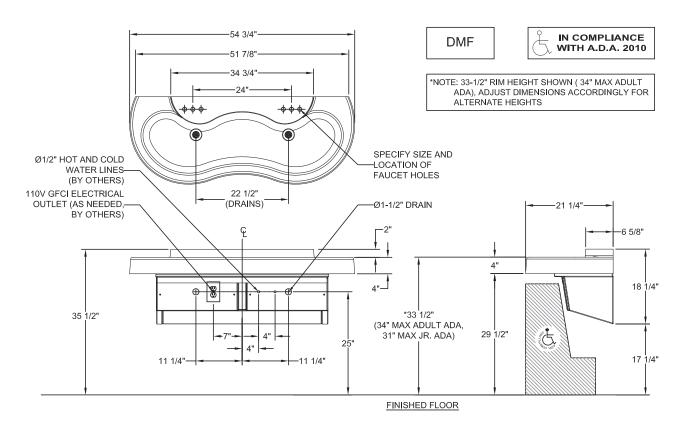
Optional Features:

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.



1.) Washfountain Model:			5.) Solid Surface Colors:		
☐ WAW-23	322-DMF	AquaWave® 2 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	all Mounted, Low-profile, with Solid Surface Panels (Standard)	■ WG	White Granite	
■ WSPS	Wa	all Mounted, Low-profile, All-Stainless Steel Shroud	□ BG	Black Granite	
			■ NB	Nocturnal Blue	
3.) Junior H	Height Op	tion:	□ RC	Red Coral	
☐ JR	Junior H	leight (31" Rim Height, JR. ADA Compliant)	☐ SG	Sea Green	
4.) Faucet l	Drilling:		6.) Other O	ptions:	
☐ NV	No Valv	e, No Faucet Holes (Standard)	☐ LSDM	Liquid Soap Dispensers- Deck-mounted Spout and Bottle	
☐ 4CC	Set of 4	"Centerset, Ø1" Holes (Specify 2 or 3 holes:)	☐ KPWV	Wall Mounted Stainless Steel Kick Plate	
☐ 8CC	Set of 8	"Centerset, Ø1" Holes (Specify 2 or 3 holes:)	Other		
☐ 1CC	Center S	Shank, (1) Ø1" Hole	Other		
☐ SP	Special	Drilling (Specify hole diameter and dimensions)			
	SP:				

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



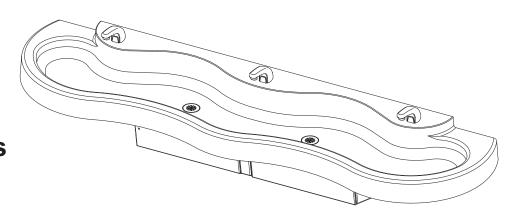
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WAW-2333-DMF
AquaWave®
Three Station
Solid Surface
Lavatory System
for (DMF) Deck
Mounted Faucets





(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 and pedestal panels are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. The preassembled low-profile pedestal base and included drain grate shall be constructed of heavy gauge, Type 304 stainless steel (the pedestal backplate is galvanized). Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Vandal resistance:

Valves (by others), 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:

The lavatory is designed 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).

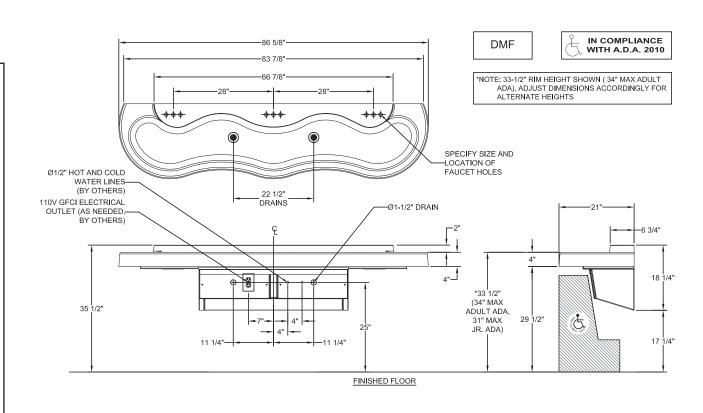
Optional Features:

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.

1.) Washfountain Model:			5.) Solid Surface Colors:		
☐ WAW-	-2333-DMF	AquaWave® 3 Station Solid Surface Lavatory System	■ BN	Bone	
		for Deck Mounted Faucets	☐ GW	Glacier White	
			☐ GG	Grey Granite	
2.) Pedes	stal Type:		□ SS	Sandstone	
■ WALL	Wa	Il Mounted, Low-profile, with Solid Surface Panels (Standard)	■ WG	White Granite	
☐ WSPS	6 Wa	Il Mounted, Low-profile, All-Stainless Steel Shroud	□ BG	Black Granite	
			■ NB	Nocturnal Blue	
3.) Junio	r Height Op	tion:	□ RC	Red Coral	
☐ JR	Junior H	eight (31" Rim Height, JR. ADA Compliant)	☐ SG	Sea Green	
4.) Fauce	et Drilling:		6.) Other O	ptions:	
■ NV	No Valve	e, No Faucet Holes (Standard)	☐ LSDM	Liquid Soap Dispensers- Deck-mounted Spout and Bottle	
☐ 4CC	Set of 4"	Centerset, Ø1" Holes (Specify 2 or 3 holes:)	■ KPWV	Wall Mounted Stainless Steel Kick Plate	
☐ 8CC	Set of 8"	Centerset, Ø1" Holes (Specify 2 or 3 holes:)	Other _		
☐ 1CC	Center S	Shank, (1) Ø1" Hole	Other _		
☐ SP	Special [SP:	Orilling (Specify hole diameter and dimensions)			

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

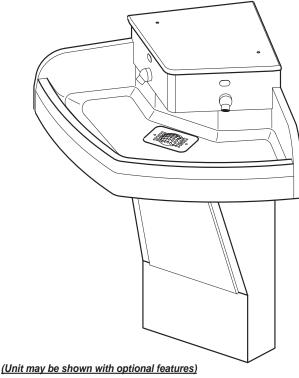
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WAF-2200/2201 **AquaFount® Corner Mounted Two Station Solid Surface** Washfountain





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

AguaFount® Corner Mounted, Two Station, Solid Surface Washfountain shall be: Willoughby Model No. WAF-220_ (select from model number and options list on next page)

AquaFount® 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 and mineral fillers. 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 25-80 PSI.

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 28" rim heights (WAF-2200 and WAF-2201 models only) for juvenile use (JR).

Washfountain is not ADA, TAS, or ANSI Compliant.

* Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

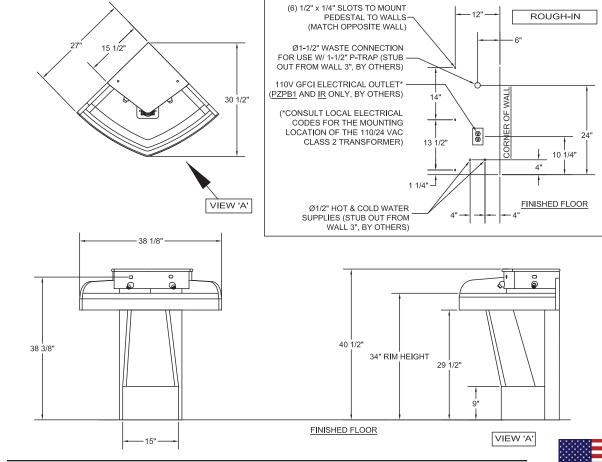
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MADE IN THE U.S.A.

1.) Washfountain Type:		5.) Solid S	urface Colors:
■ WAF	AquaFount®	■ BN	Bone
		☐ GW	Glacier White
2.) Base Me	odel Number:	☐ GG	Grey Granite
2200	Corner Mounted 2 Station Floor Mounted Washfountain	□ SS	Sandstone
2201	Corner Mounted 2 Station Wall Mounted Washfountain	■ WG	White Granite
		□ BG	Black Granite
3.) Junior H	leight Option:	■ NB	Nocturnal Blue
🔲 JR	Junior Height (28" Rim Height)	☐ 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 Dispenser (1)
PZPB1	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, Hard-wired*	Other	
🔲 во	Infrared Sensors, Battery Operated	Other	
*(Reg. 11)	0V power through ground fault interrupter (GFCI) receptacle)		
(

Approved For Manufacturing By:Wall Thickness:	_ Wall Type:	Date:	Company:	
		(6) 1/2" x 1/4" SLOTS TO MOUNT PEDESTAL TO WALLS (MATCH ORDOSITE WALLS)	+−12" → ROUGH-IN	



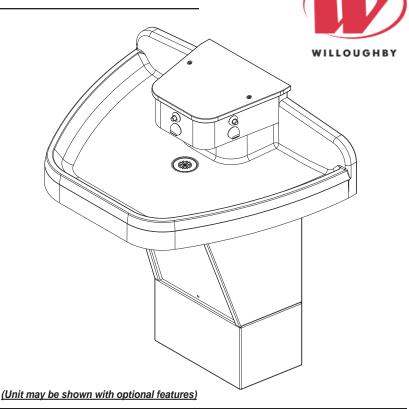
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WAF-3300/3301 **AquaFount® Three Station Solid Surface Washfountain**





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

AguaFount® 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 and mineral fillers. 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 25-80 PSI.

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).

* Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

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1.) Washfou	ntain Type:	5.) Solid St	urface Colors:
■ WAF	AquaFount®	■ BN	Bone
		☐ GW	Glacier White
2.) Base Mod	del Number:	☐ GG	Grey Granite
3300	3 Station Floor Mounted Washfountain	□ SS	Sandstone
3301	3 Station 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	tuation:		
■ PPB1	Standard Pneumatic Push Buttons for Single	6.) Other O	ptions:
	Temperature Pneumatic Metering	LSD	Liquid Soap Dispensers (2)
PZPB1	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, Hard-wired*	Other	
□ во	Infrared Sensors, Battery Operated	Other	
*(Req. 110\	V power through ground fault interrupter (GFCI) receptacle)		

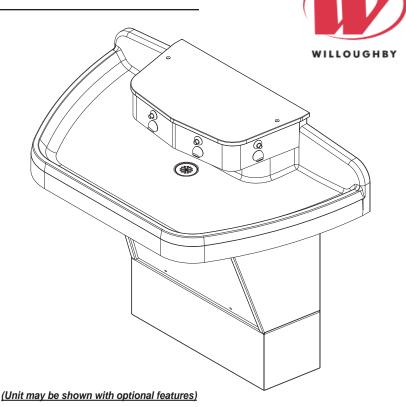
JIOVEU FOI IV	/lanufac	cturing By:		Date:		Company:
II Thickness	:		Wall Type:			
sn and Bligation.			36"	IN COMPLIANC WITH A.D.A. 201	10	* 34" RIM HEIGHT SHOWN (MAX ADULT ADA). SPECIFY IF 31" JUNIOR HEIGHT IS NEEDED **CONSULT LOCAL ELECTRICAL CODES FOR THE MOUNTING LOCATION OF THE 110/24 VAC CLASS 2 TRANSFORMER
HE RIGHT TO MAKE CHANGES IN DESIGN AND L NOTICE AND WITHOUT INCURRING OBLIGATION	+	3 1/2"	OF V (STU WAL	ROX. LOCATION VASTE ROUGH-IN IB-OUT FROM L 3", BY OTHERS) GFCI ELECTRICAL LET** (PZPB1 AND	*\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
WILLOUGHBY RESERVES T DIMENSIONS WITHOUT FORMAL	25 1/2"	"20 1/2"	IR 0 Ø	" HOT AND COLD ER SUPPLY INECTIONS JB OUT FROM L 3", BY OTHERS)	37 1/2"	30

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WAF-4400/4401 AquaFount® Four Station Solid Surface Washfountain





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

Recommended Specifications

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 and mineral fillers. 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 25-80 PSI.

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).

* <u>Note:</u> Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

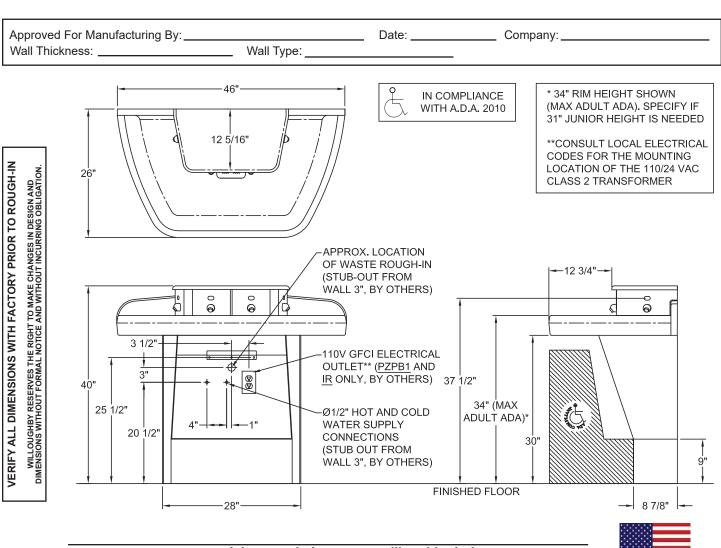
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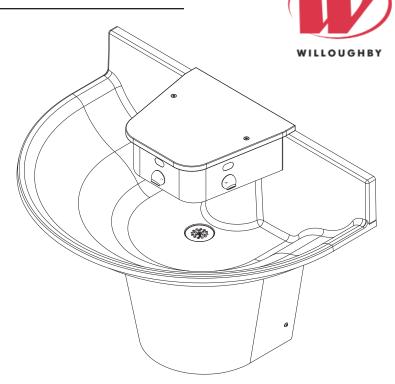
1.) Washfountain Type:		5.) Solid S	urface Colors:
■ WAF	AquaFount®	■ BN	Bone
		☐ GW	Glacier White
2.) Base Mod	lel Number:	☐ GG	Grey Granite
4400	4 Station Floor Mounted Washfountain	□ SS	Sandstone
4401	4 Station Wall Mounted Washfountain	■ WG	White Granite
		□ BG	Black Granite
3.) Junior He	ight Option:	■ NB	Nocturnal Blue
☐ JR J	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 0	Options:
	Temperature Pneumatic Metering	☐ LSD	Liquid Soap Dispensers (2)
PZPB1	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, Hard-wired*	Other	
□ BO	Infrared Sensors, Battery Operated	Other	



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WAF-3603 AquaFount® Three Station Half Round 36" Solid Surface **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 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

Recommended Specifications

AquaFount® Half Round, 36" Solid Surface Washfountain shall be: Willoughby Model No. WAF-3603 (select from model number and options list on next page)

AquaFount® 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 and mineral fillers. 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 25-80 PSI.

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). A wall mounted stainless steel kick plate (KPWF) is available for wall-mounted pedestals with floor-based 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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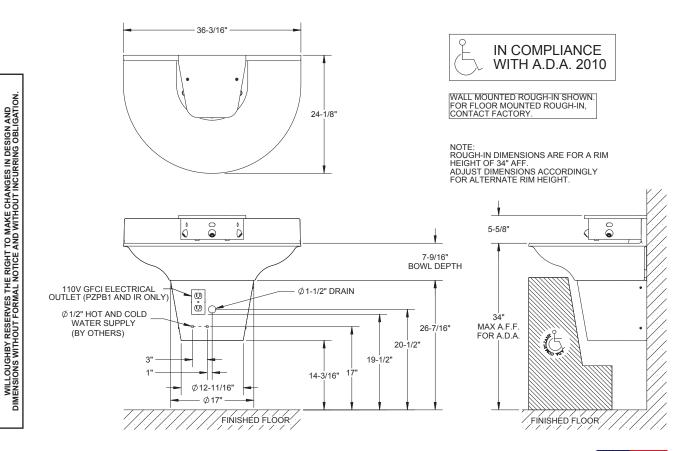
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tain Model:	5.) Solid Su	urface Colors:
AquaFount® 3 Station 36" Half Round Deep Bowl	■ BN	Bone
Solid Surface Washfountain	☐ GW	Glacier White
	☐ GG	Grey Granite
Гуре:	□ SS	Sandstone
Wall Mounted (Standard)	■ WG	White Granite
	□ BG	Black Granite
ight Option:	■ NB	Nocturnal Blue
Junior Height (31" Rim Height, JR. ADA Compliant)	□ RC	Red Coral
	☐ SG	Sea Green
uation:		
Standard Pneumatic Push Buttons for Single	6.) Other O	ptions:
Temperature Pneumatic Metering	LSD	Liquid Soap Dispensers (2)
Piezo Electronic Push Buttons for Single	□ TL	Less In-line Thermostatic Mixing Valve
Temperature Electronic (w/ Pneutronic Control)*	■ KPWF	Wall Mounted Stainless Steel Kick Plate
Infrared Sensors, Hard-wired*	□ LSH	1.5 gpm Laminar Flow Sprayheads
Infrared Sensors, Battery Operated	Other	
	Other	
power through ground fault interrupter (GFCI) receptacle)		
	AquaFount® 3 Station 36" Half Round Deep Bowl Solid Surface Washfountain Type: Wall Mounted (Standard) ight Option: Junior Height (31" Rim Height, JR. ADA Compliant) uation: Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering Piezo Electronic Push Buttons for Single Temperature Electronic (w/ Pneutronic Control)* Infrared Sensors, Hard-wired* Infrared Sensors, Battery Operated	AquaFount® 3 Station 36" Half Round Deep Bowl Solid Surface Washfountain GG Type: SS Wall Mounted (Standard) BG ight Option: Junior Height (31" Rim Height, JR. ADA Compliant) RC standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering Piezo Electronic Push Buttons for Single Temperature Electronic (w/ Pneutronic Control)* Infrared Sensors, Hard-wired* Infrared Sensors, Battery Operated BN BN GW GW GW GC

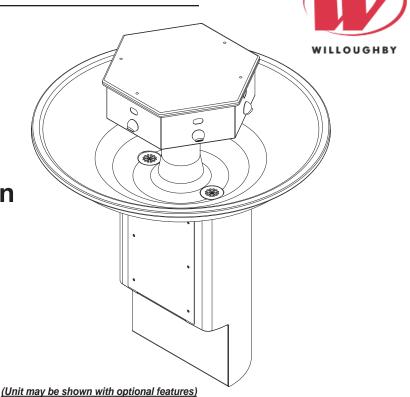
Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		



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VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

WAF-3606
AquaFount®
Six Station
Full Round
36" Solid Surface
Deep Bowl Washfountain





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

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 and mineral fillers. 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 25-80 PSI.

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).

* <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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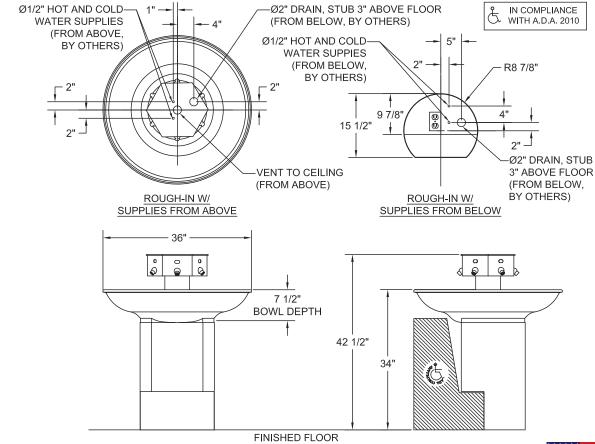
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□ WAF-3606 AquaFount® 6 Station 36" Full Round Deep Bowl Solid Surface Washfountain □ SB Supply From Below (Standard) 2.) Pedestal Type: 6.) Solid Surface Colors: □ FLR Floor Mounted (Standard) □ BN Bone □ GW Glacier White 3.) Junior Height Option: □ GG Grey Granite □ JR Junior Height (31" Rim Height, JR. ADA Compliant) □ SS Sandstone □ WG White Granite 4.) Valve Actuation: □ BG Black Granite □ PPB1 Standard Pneumatic Push Buttons for Single □ NB Nocturnal Blue □ PZPB1 Piezo Electronic Push Buttons for Single □ RC Red Coral □ PZPB1 Piezo Electronic (WP Pneutronic Control)* □ RC Red Coral □ IR Infrared Sensors, Hard-wired* 7.) Other Options: □ BO Infrared Sensors, Battery Operated □ LSD Liquid Soap Dispensers (2) □ FO Foot Operated Pneumatic Push Buttons (Not ADA Compliant) □ TL Less In-line Thermostatic Mixing Valve *(Req. 110V power through ground fault interrupter (GFCI) receptacle) □ TSHWF Telescoping Washfountain Shroud (For use on (SA) models only) □ LSH 1.5 gpm Laminar Flow Sprayheads	1.) Washfountain Model:		5.) Water Supply:		
2.) Pedestal Type: FLR Floor Mounted (Standard) BN Bone GW Glacier White 3.) Junior Height Option: GG Grey Granite SS Sandstone WG White Granite 4.) Valve Actuation: BB	■ WAF-36	606	AquaFount® 6 Station 36" Full Round Deep Bowl	☐ SB	Supply From Below (Standard)
□ FLR Floor Mounted (Standard) □ BN GW Glacier White 3.) Junior Height Option: □ GG Grey Granite □ JR Junior Height (31" Rim Height, JR. ADA Compliant) □ SS Sandstone □ WG White Granite WG White Granite 4.) Valve Actuation: □ BG Black Granite □ PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering □ RC Red Coral □ PZPB1 Piezo Electronic Push Buttons for Single Temperature Electronic (W/ Pneutronic Control)* □ SG Sea Green □ IR Infrared Sensors, Hard-wired* 7.) Other Options: □ BO Infrared Sensors, Battery Operated □ LSD Liquid Soap Dispensers (2) □ Foot Operated Pneumatic Push Buttons (Not ADA Compliant) □ TL Less In-line Thermostatic Mixing Valve □ SSC Stainless Steel Head Cover (Top Cap) □ TSHWF Telescoping Washfountain Shroud (For use on (SA) models only) □ LSH 1.5 gpm Laminar Flow Sprayheads □ Other			Solid Surface Washfountain	☐ SA	Supply From Above (Option (TSHWF) recommended)
GW Glacier White JR Junior Height (31" Rim Height, JR. ADA Compliant) SS Sandstone WG White Granite You with Granite SG Black Granite You with Granite SG Black Granite You with Granite SG Black Granite PPB1	2.) Pedesta	al Typ	e:	6.) Solid Su	rface Colors:
3.) Junior Height Option: JR Junior Height (31" Rim Height, JR. ADA Compliant) SS Sandstone WG White Granite 4.) Valve Actuation: PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering PZPB1 Piezo Electronic Push Buttons for Single Temperature Electronic (w/ Pneutronic Control)* RC Red Coral SG Grey Granite WG White Granite BG Black Granite NB Nocturnal Blue RC Red Coral SG Sea Green Temperature Electronic (w/ Pneutronic Control)* IR Infrared Sensors, Hard-wired* BO Infrared Sensors, Battery Operated FO Foot Operated Pneumatic Push Buttons (Not ADA Compliant) TL Less In-line Thermostatic Mixing Valve SSC Stainless Steel Head Cover (Top Cap) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) TSHWF Telescoping Washfountain Shroud (For use on (SA) models only) LSH 1.5 gpm Laminar Flow Sprayheads	☐ FLR	Flo	or Mounted (Standard)	■ BN	Bone
JR Junior Height (31" Rim Height, JR. ADA Compliant) □ SS Sandstone □ WG White Granite 4.) Valve Actuation: □ BG Black Granite □ PPB1 Standard Pneumatic Push Buttons for Single □ NB Nocturnal Blue Temperature Pneumatic Metering □ RC Red Coral □ PZPB1 Piezo Electronic Push Buttons for Single □ SG Sea Green Temperature Electronic (w/ Pneutronic Control)* □ SG Sea Green □ IR Infrared Sensors, Hard-wired* □ LSD Liquid Soap Dispensers (2) □ FO Foot Operated Pneumatic Push Buttons (Not ADA Compliant) □ TL Less In-line Thermostatic Mixing Valve *(Req. 110V power through ground fault interrupter (GFCI) receptacle) □ TSHWF Telescoping Washfountain Shroud (For use on (SA) models only) □ LSH □ LSH □ LS gpm Laminar Flow Sprayheads □ Other □ Ush □ Ush				☐ GW	Glacier White
## WG White Granite ## A; Valve Actuation: PPB1	3.) Junior I	Heigh	t Option:	☐ GG	Grey Granite
4.) Valve Actuation: PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering Piezo Electronic Push Buttons for Single Temperature Electronic (w/ Pneutronic Control)* RC Red Coral SG Sea Green Temperature Electronic (w/ Pneutronic Control)* RD Infrared Sensors, Hard-wired* RO Infrared Sensors, Battery Operated FO Foot Operated Pneumatic Push Buttons (Not ADA Compliant) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) *(Red. Coral *(Red. Coral	JR	Jur	nior Height (31" Rim Height, JR. ADA Compliant)	□ SS	Sandstone
□ PPB1 Standard Pneumatic Push Buttons for Single				■ WG	White Granite
Temperature Pneumatic Metering	4.) Valve Actuation:		■ BG	Black Granite	
□ PZPB1 Piezo Electronic Push Buttons for Single Temperature Electronic (w/ Pneutronic Control)* □ SG Sea Green □ IR Infrared Sensors, Hard-wired* 7.) Other Options: □ BO Infrared Sensors, Battery Operated □ LSD Liquid Soap Dispensers (2) □ FO Foot Operated Pneumatic Push Buttons (Not ADA Compliant) □ TL Less In-line Thermostatic Mixing Valve □ SSC Stainless Steel Head Cover (Top Cap) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) □ TSHWF Telescoping Washfountain Shroud (For use on (SA) models only) □ LSH 1.5 gpm Laminar Flow Sprayheads □ Other □ Other	□ PPB1		Standard Pneumatic Push Buttons for Single	■ NB	Nocturnal Blue
Temperature Electronic (w/ Pneutronic Control)* IR Infrared Sensors, Hard-wired* BO Infrared Sensors, Battery Operated FO Foot Operated Pneumatic Push Buttons (Not ADA Compliant) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) Temperature Electronic (w/ Pneutronic Control)* 7.) Other Options: LSD Liquid Soap Dispensers (2) Less In-line Thermostatic Mixing Valve SSC Stainless Steel Head Cover (Top Cap) TSHWF Telescoping Washfountain Shroud (For use on (SA) models only) LSH 1.5 gpm Laminar Flow Sprayheads Other			Temperature Pneumatic Metering	□ RC	Red Coral
□ IR Infrared Sensors, Hard-wired* 7.) Other Options: □ BO Infrared Sensors, Battery Operated □ LSD Liquid Soap Dispensers (2) □ FO Foot Operated Pneumatic Push Buttons (Not ADA Compliant) □ TL Less In-line Thermostatic Mixing Valve □ SSC Stainless Steel Head Cover (Top Cap) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) □ TSHWF Telescoping Washfountain Shroud (For use on (SA) models only) □ LSH 1.5 gpm Laminar Flow Sprayheads □ Other □ Other	□ PZPB1		Piezo Electronic Push Buttons for Single	□ SG	Sea Green
□ BO Infrared Sensors, Battery Operated □ LSD Liquid Soap Dispensers (2) □ FO Foot Operated Pneumatic Push Buttons (Not ADA Compliant) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) LSD Liquid Soap Dispensers (2) Less In-line Thermostatic Mixing Valve Stainless Steel Head Cover (Top Cap) TSHWF □ LSH □ SHWF □ LSH □ SHWF □ LSH □ Other □ Other			Temperature Electronic (w/ Pneutronic Control)*		
TL Less In-line Thermostatic Mixing Valve Stainless Steel Head Cover (Top Cap) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) TSHWF SSC TSHWF SIGN TSHWF SIGN TSHWF SIGN TSHWF SIGN TOR TOR TOR TOR TOR TOR TOR TO	□ IR		Infrared Sensors, Hard-wired*	7.) Other Op	otions:
*(Req. 110V power through ground fault interrupter (GFCI) receptacle) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) *(Req. 110V power through ground fault interrupter (GFCI) receptacle) *(SSC Stainless Steel Head Cover (Top Cap) *Telescoping Washfountain Shroud (For use on (SA) models only) LSH 1.5 gpm Laminar Flow Sprayheads Other	🔲 во		Infrared Sensors, Battery Operated	☐ LSD	Liquid Soap Dispensers (2)
*(Req. 110V power through ground fault interrupter (GFCI) receptacle) TSHWF Telescoping Washfountain Shroud (For use on (SA) models only) LSH 1.5 gpm Laminar Flow Sprayheads Other	☐ FO		Foot Operated Pneumatic Push Buttons (Not ADA Compliant)	□ TL	Less In-line Thermostatic Mixing Valve
☐ LSH 1.5 gpm Laminar Flow Sprayheads ☐ Other				☐ SSC	Stainless Steel Head Cover (Top Cap)
☐ Other	*(Req. 11	0V po	wer through ground fault interrupter (GFCI) receptacle)	☐ TSHWF	Telescoping Washfountain Shroud (For use on (SA) models only)
				LSH	1.5 gpm Laminar Flow Sprayheads
Other				Other	
Unter				Other	

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

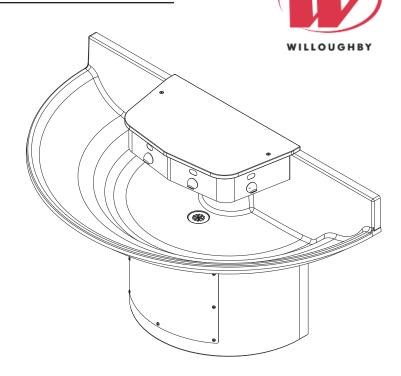


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WAF-5403/5404
AquaFount®
Three / Four Station
Half Round
54" Solid Surface
Deep Bowl Washfountain





(Unit may be shown with optional features)

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

Example: To specify a 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

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 and mineral fillers. 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 25-80 PSI.

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.

* <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.) Washfountain Type:		5.) Solid	Surface Colors:	
■ WAF-540	5403 AquaFount® 3 Station 54" Half Round Deep Bowl		Bone	
	Solid Surface Washfountain	☐ GW	Glacier White	
■ WAF-540	04 AquaFount® 4 Station 54" Half Round Deep Bowl	☐ GG	Grey Granite	
	Solid Surface Washfountain	□ SS	Sandstone	
		☐ WG	White Granite	
2.) Pedestal	l Type:	□ BG	Black Granite	
■ WALL	Wall Mounted (Standard)	■ NB	Nocturnal Blue	
☐ FLR	Floor Mounted (Not ADA Compliant)	□ RC	Red Coral	
		□ SG	Sea Green	
3.) Junior H	eight Option:			
☐ JR Junior Height (31" Rim Height, Not JR. ADA Compliant)		6.) Other Options:		
		LSD	Liquid Soap Dispensers (2)	
4.) Valve Ac	tuation:	☐ TL	Less In-line Thermostatic Mixing Valve	
■ PPB1	Standard Pneumatic Push Buttons for Single	□ KPWF	Wall Mounted Stainless Steel Kick Plate	
	Temperature Pneumatic Metering		(For wall-mounted pedestal only)	
□ PZPB1	Piezo Electronic Push Buttons for Single	□ LSH	1.5 gpm Laminar Flow Sprayheads	
	Temperature Electronic (w/ Pneutronic Control)*	Other		
☐ IR	Infrared Sensors, Hard-wired*	Other		
🔲 во	Infrared Sensors, Battery Operated			
☐ FO	Foot Operated Pneumatic Push Buttons (Not ADA Compliant)			

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

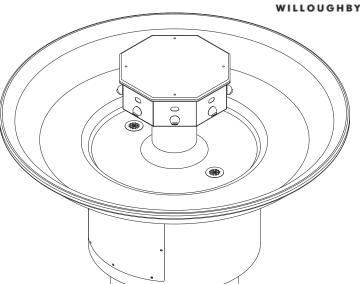
Approved For Manufacturing By: _ Date: __ Company: _ Wall Thickness: Wall Type: IN COMPLIANCE WITH A.D.A. 2010 VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WALL MOUNTED ROUGH-IN SHOWN. FOR FLOOR MOUNTED ROUGH-IN, WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION. CONTACT FACTORY. 28-5/8" NOTE: ROUGH-IN DIMENSIONS ARE FOR A RIM HEIGHT OF 34" AFF. ADJUST DIMENSIONS ACCORDINGLY FOR ALTERNATE RIM HEIGHT. Ø1-1/2" DRAIN ô 0 ٥ 0 5-5/8" 8-1/4" **BOWL DEPTH** 110V GFCI ELECTRICAL OUTLET (PZPB1 AND IR ONLY, BY OTHERS) 9.0 2-1/2" MAX A.F.F. FOR A.D.A. Ø 1/2" HOT AND COLD-WATER SUPPLIES 4" 9-11/16' (BY OTHERS) FINISHED FLOOR FINISHED FLOOR

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WAF-5406/5408
AquaFount®
Six / Eight Station
Full Round
54" Solid Surface
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 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

Recommended Specifications

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 and mineral fillers. 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 25-80 PSI.

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).

* <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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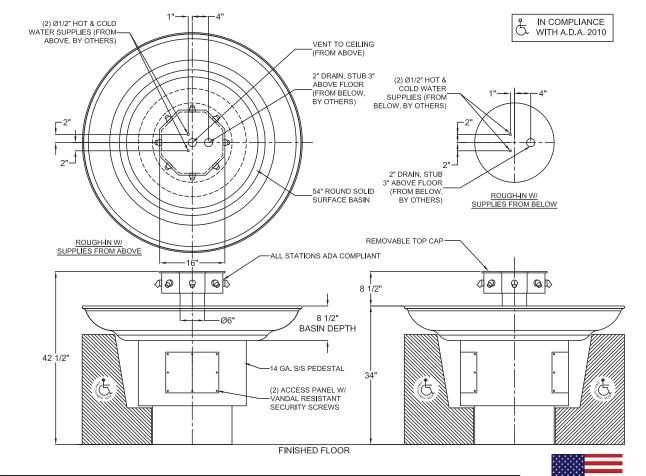
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1.) Washfountain Type:			5.) Water Supply:			
☐ WAF-540	6 AguaFount® 6 Station 54" Full Round Deep Bowl	☐ SB	Supply From Below (Standard)			
_	Solid Surface Washfountain	☐ SA	Supply From Above (Option (TSHWF) recommended)			
☐ WAF-540	8 AguaFount® 8 Station 54" Full Round Deep Bowl					
	Solid Surface Washfountain	6.) Solid Su	urface Colors:			
		☐ BN	Bone			
2.) Pedestal	Type:	☐ GW	Glacier White			
☐ FLR Floor Mounted (Standard)		☐ GG	Grey Granite			
_	,	□ SS	Sandstone			
3.) Junior Height Option:		☐ WG	White Granite			
☐ JR	Junior Height (31" Rim Height, Not JR. ADA Compliant)	☐ BG	Black Granite			
		■ NB	Nocturnal Blue			
4.) Valve Actuation:		RC	Red Coral			
☐ PPB1	Standard Pneumatic Push Buttons for Single	☐ SG	Sea Green			
	Temperature Pneumatic Metering					
□ PZPB1	Piezo Electronic Push Buttons for Single	7.) Other O	ptions:			
	Temperature Electronic (w/ Pneutronic Control)*	LSD	Liquid Soap Dispensers (2)			
□ IR	Infrared Sensors, Hard-wired*	□ TL	Less In-line Thermostatic Mixing Valve			
□ во	Infrared Sensors, Battery Operated	☐ SSC	Stainless Steel Head Cover (Top Cap)			
☐ FO	Foot Operated Pneumatic Push Buttons (Not ADA Compliant)	☐ TSHWF	Telescoping Washfountain Shroud (For use on (SA) models only)			
		□ LSH	1.5 gpm Laminar Flow Sprayheads			
*(Req. 110\	V power through ground fault interrupter (GFCI) receptacle)	Other				
		☐ Other				

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



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W

CES-912

Commercial Hand Sink

Recommended Specifications

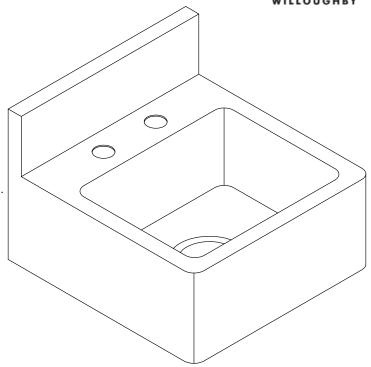
Commercial Hand Sink shall be: Willoughby Model No. CES-912

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:

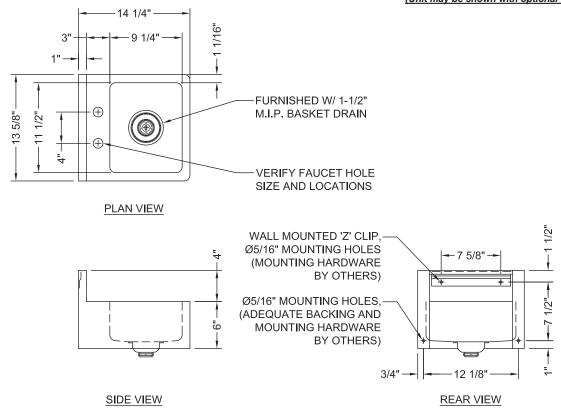
- Rectangular shaped bowl, 11-1/2" x 9-1/4" x 5" deep
- 1-1/2" M.I.P. basket drain
- 4"-on-center deck mounted faucet holes (Faucet by others)

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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CSS-2419 Commercial Service Sink

Recommended Specifications

Commercial Service Sink shall be: Willoughby Model No. **CSS-2419**

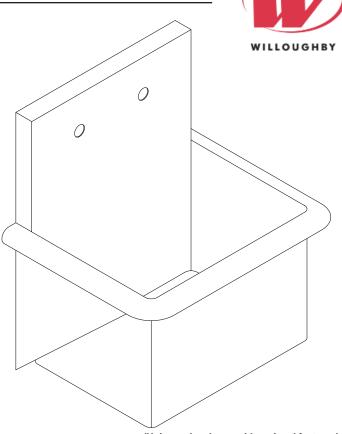
Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be all-welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:

- Rectangular shaped, 20" x 15" x 14" deep sink bowl
- 1-1/2" M.I.P. basket drain

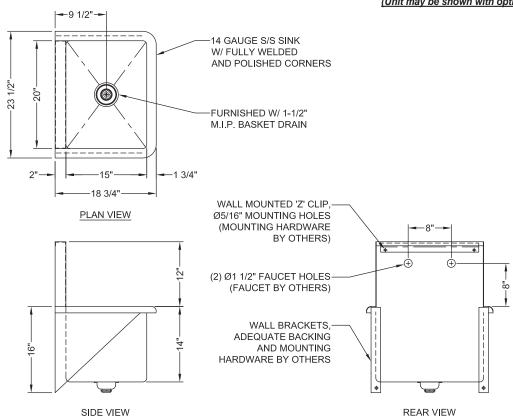
Faucet by others. The service sink is manufactured to ASME A112.19.3/CSA B45.4.

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.



(Unit may be shown with optional features)

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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: - 1-1/2" M.I.P. basket strainer drain

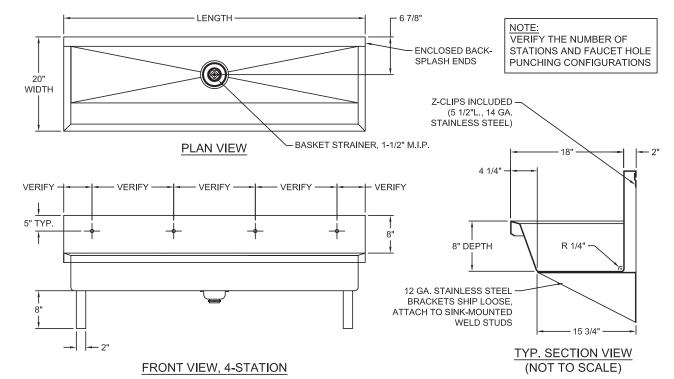
Faucets by others.

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.



/	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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C17-3

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.

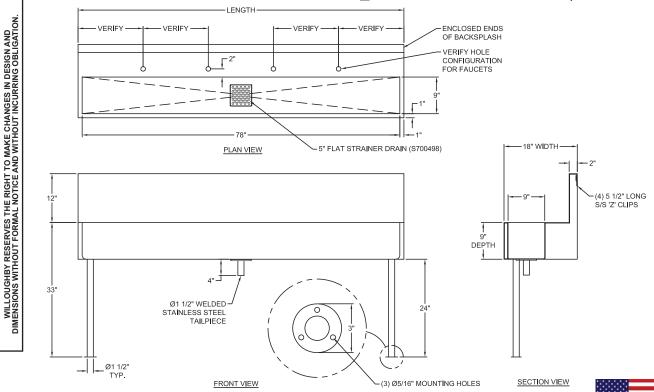


/	MODEL NUMBER	STATIONS	LENGTH	WIDTH
	CWWS-2	2	48"	18"
	CWWS-3	3	62"	18"
	CWWS-4	4	80"	18"
	CWWS-5	5	102"	18"

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.



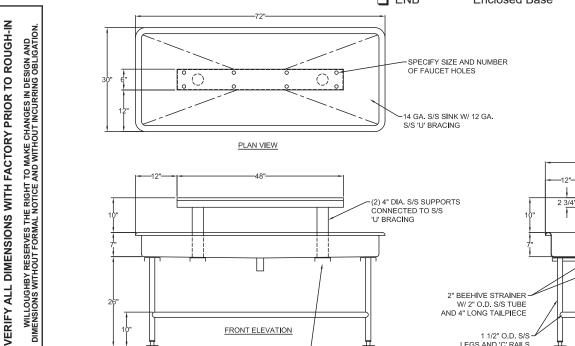
1	MODEL NUMBER	STATIONS	LENGTH	WIDTH
	CWIS-6	6	58"	30"
	CWIS-8	8	72"	30"

Other Options:

☐ SD Surface Mounted Soap Dishes

> 1 1/2" O.D. S/S LEGS AND 'C' RAILS S/S ADJUSTABLE FLANGED FEET

■ ENB **Enclosed Base**



FRONT ELEVATION

PLUMB THRU SUPPORT COLUMNS FOR FAUCET CONNECTIONS

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TYP. SECTION

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W

CWMS Series Commercial Mop Sink

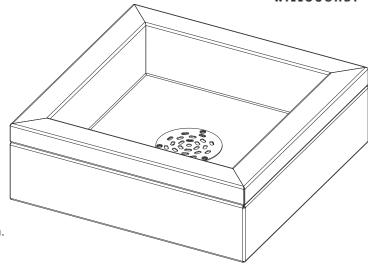
Recommended Specifications

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.

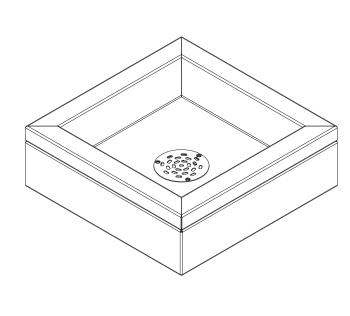
1	MODEL NUMBER	SIZE: A x B x C
	CWMS-24246	24" x 24" x 6"
	CWMS-242412	24" x 24" x 12"
	CWMS-32326	32" x 32" x 6"
	CWMS-323212	32" x 32" x 12"
	CWMS-36366	36" x 36" x 6"
	CWMS-363612	36" x 36" x 12"

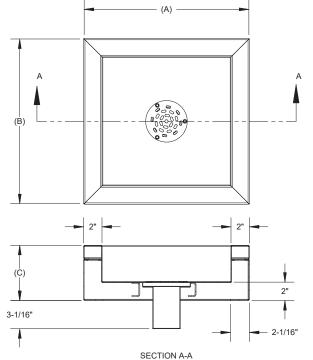


(Unit may be shown with optional features)

Other Options:

- ☐ KH36 36" 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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W)

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.

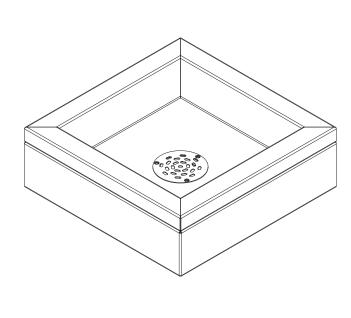
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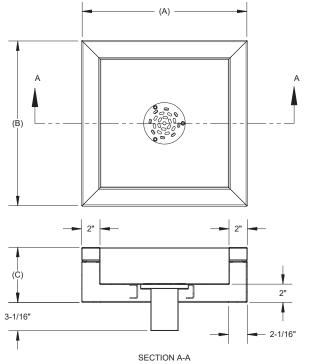
(Unit may be shown with optional features)

Other Options:

- ☐ KH36 36" 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:____

✓ 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"





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SB-1823 Stainless Steel Shampoo Bowl

Recommended Specifications

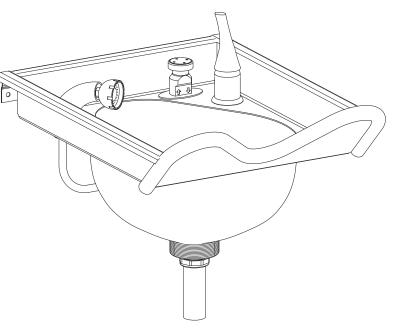
Stainless Steel Shampoo Bowl shall be: Willoughby Model No. **SB-1823**

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:

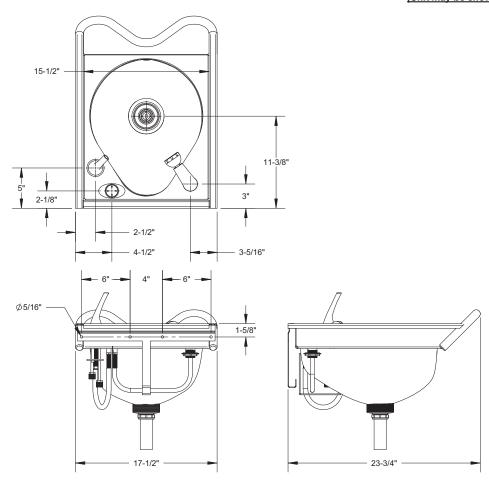
- Stainless steel 3-1/2" basket strainer with drain
- Wall mounting bracket (less wall mounting hardware)

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)

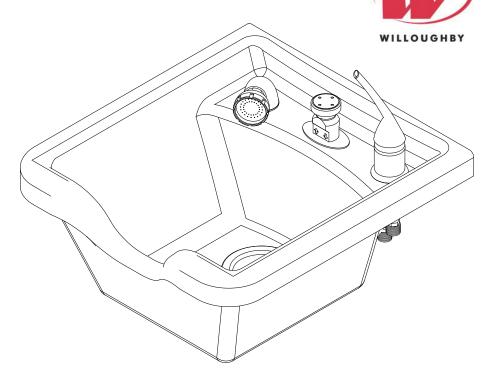
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WSB-1911 Aquasurf® Solid Surface Shampoo Bowl 18" Wide



(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 Aquasurf® 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.

Aquasurf® WSB-1911 shall be constructed of molded cast polymer densified solid surface material composed of polyester/ acrylic resin. UV stabilizer, aluminum trihydrate, mineral fillers and proprietary colorant. 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.



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 **Gray Granite**

ss Sandstone

☐ WG White Granite

☐ BG Black Granite

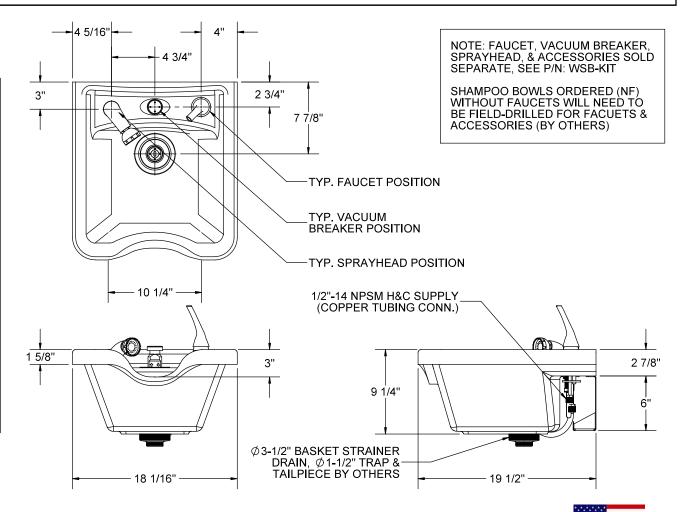
■ NB Nocturnal Blue Red Coral

☐ RC ☐ SG Sea Green

4.) Options:

□ Other □ Other

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



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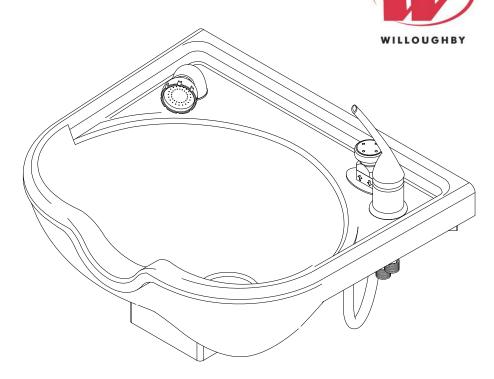
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WSB-2111 **Aquasurf® Solid Surface Shampoo Bowl 22" Wide**



(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 Aquasurf® 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.

Aquasurf® WSB-2111 shall be constructed of molded cast polymer densified solid surface material composed of polyester/ acrylic resin. UV stabilizer, aluminum trihydrate, mineral fillers and proprietary colorant. 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.



1.) Base Model Number:

☐ WSB-2111 Aquasurf® Solid Surface Shampoo Bowl (22" 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 **Gray 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:

TYP. VACUUM BREAKER POSITION 5 1/2" NOTE: FAUCET, VACUUM BREAKER, SPRAYHEAD, & ACCESSORIES SOLD 3" SEPARATE, SEE P/N: WSB-KIT SHAMPOO BOWLS ORDERED (NF) WITHOUT FAUCETS, WILL NEED TO BEE FIELD-DRILLED FOR FAUCETS 2 3/4" 3 1/2" 3 13/16' & ACCESSORIES (BY OTHERS) TYP. FAUCET POSITION TYP. SPRAYHEAD POSITION 3" 1/2"-14 NPSM H&C SUPPLY (COPPER TUBING CONN.) 3 3/8' 2 7/8" 9 1/4" ϕ 3-1/2" BASKET STRAINER DRAIN, ϕ 1-1/2" TRAP & TAILPIECE BY OTHERS 21 3/4" 17 7/8"

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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

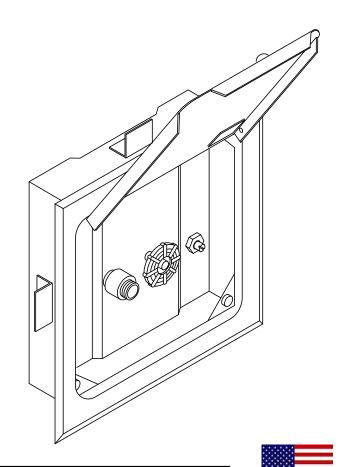
HB Series Hose Box shall be:
Willoughby Model No. **HB-___**(Select from model number table shown above)

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

Inlets shall be 1/2" F.I.P. and outlets are 3/4" M.G.H.T.

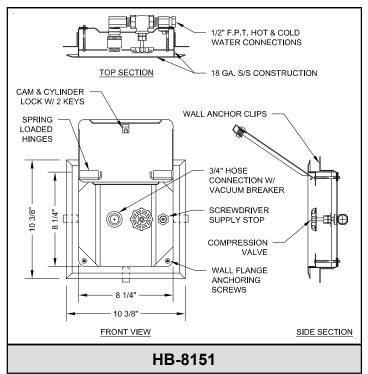


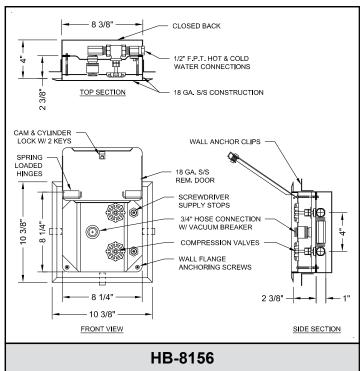
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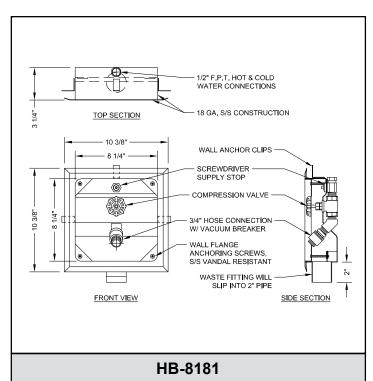
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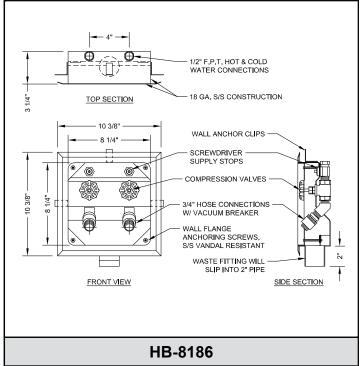








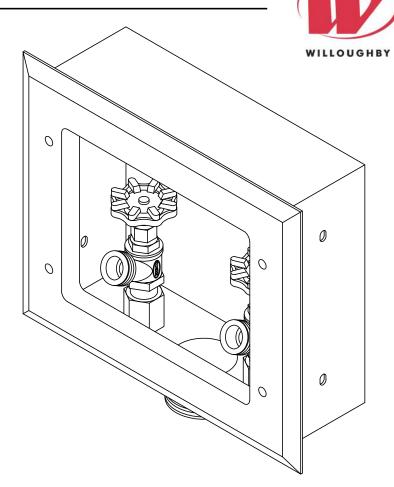
C19-2



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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

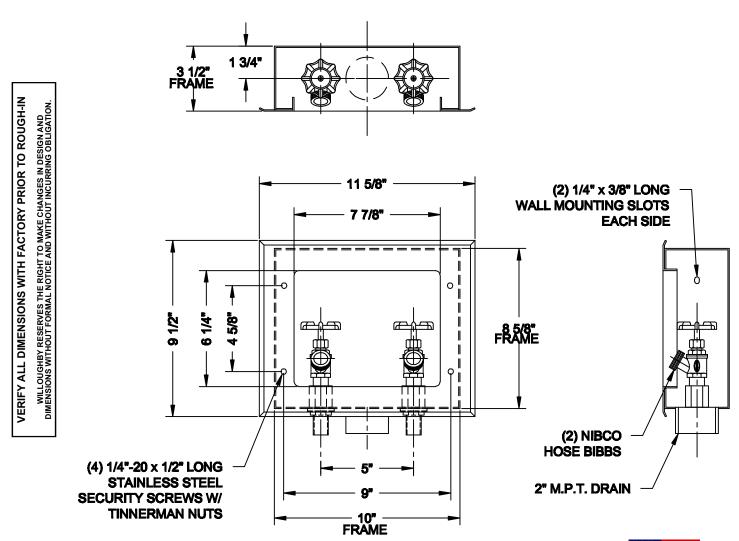
with Wall Flange and Boiler Drain Valve

☐ HBBD-8252 Dual Temperature HBBD Series Hose Box with Wall Flange and Boiler Drain Valve

2.) Other Options:

□ Other□ Other

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



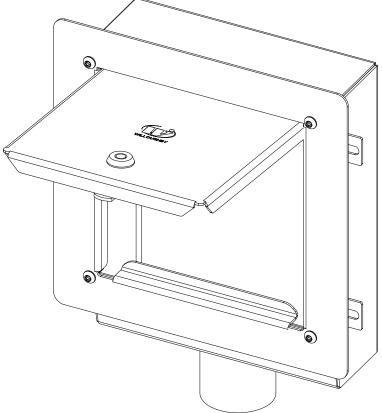
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HB-8200 Recessed Drain Box w/ Wall Flange and Door





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:

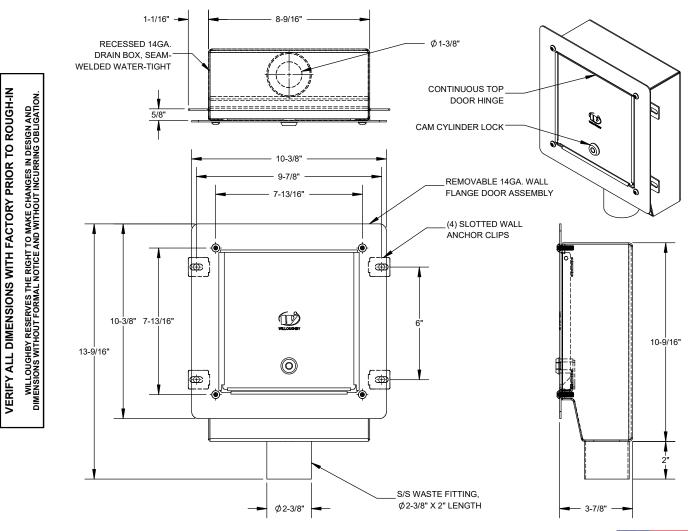
☐ HB-8200 Recessed Drain Box w/ Wall Flange and Door

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:		

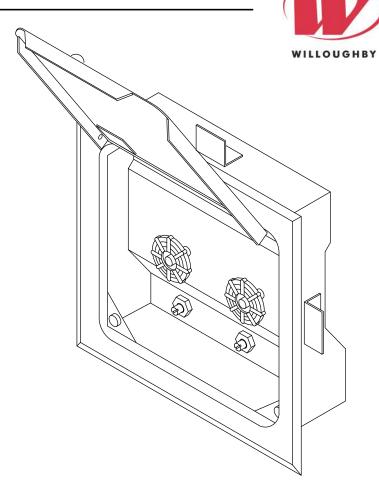


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RSB-8201 Dual Temperature Remote Supply Box



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:

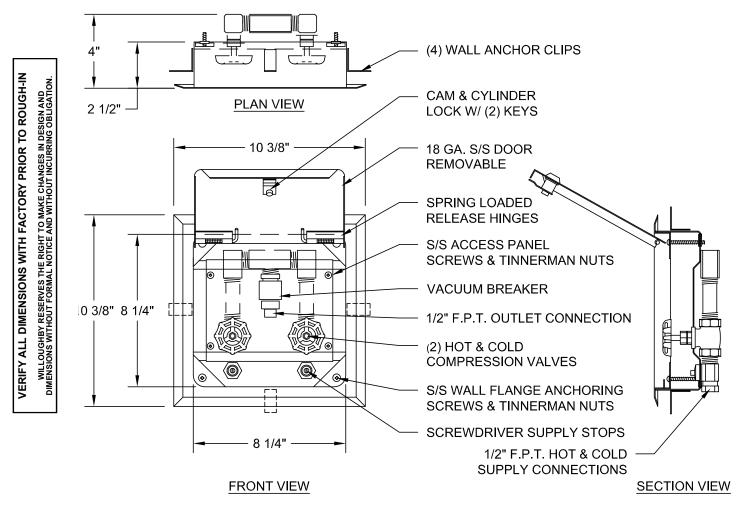
☐ RSB-8201 Dual Temperature Remote Supply Box

2.) Other Options:

C19-8

☐ Other☐ Other

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



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Willoughby Industries - Healthcare Products

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



1.) Base Mo	odel:	5.) Mountii	ng Options:
CWSSS	Commercial Surgical Scrub Sink		'Z' Clips (Wall anchors by others) (Standard)
		□ MC	Mounting Carrier (off-floor installation)
2.) Number	of Stations:	■ MB	Mounting Base (on-floor installation)
1	Single Station		
2	Two Station (with 1 Divider Panel)	6.) Options	S:
3	Three Station (with 2 Divider Panels)	☐ LSD	Liquid Soap Dispensers (Knee-activated hydraulic)
		□ LM	Light Module w/ Storage Shelf
3.) Tempera	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	0V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: Company: Wall Thickness: Wall Type: SINGLE STATION DOUBLE STATION -DIVIDER PANEL 1/2" HOT & COLD-SUPPLY LINES STUB OUT 2" TO VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN (2) 1/2" HOT & COLD-SUPPLY LINES STUB OUT 2" TO STOP WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION. STOP 120V-1 -15A GFI - DUPLEX RECEPTICAL -(2) 120V-1 -15A GFI - DUPLEX RECEPTICAL 25" MAX -1 1/2" PIPE STUB OUT 5 1/2" TO DRAIN -3 1/8 25" FINISHED FLOOR PLUMBING CONTRACTOR TO PROVIDE 1/2" M.P.T. FOR CONN. 1 1/2" PIPE STUB OUT J 5 1/2" TO DRAIN UNITS ARE PRE-PLUMBED & CONNECT TO SUPPLY STOPS W/ FLEX HOSES THIRD STATION (2) DIVIDER PANEL CARRIER SUPPORT (3) 120V-1 -15A GFI - DUPLEX RECEPTICAL (3) 1/2" HOT & COLD-SUPPLY LINES STUB OUT 2" TO STOP -16 3/4"-FINISHED FLOOR 1 1/2" PIPE STUB OUT 5 1/2" TO DRAIN

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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
- BBO- Body Bar Actuated Water Valves
- Liquid Soap Dispensers- Knee-activated, Hydraulic
- Mounting Carrier
- Mounting Base
- Swing-down Eye Wash Stations

MADE IN THE U.S.A.

Other:

1.) Base Model: ■ EWSSS Economy Surgical Scrub Sink 2.) Number of Stations: **1** Single Station **2** Two Station (with 1 Divider Panel) **3** Three Station (with 2 Divider Panels) 3.) Temperature Controls: $\, \, \square \, \mathsf{TMV} \,$ Inline Thermostatic Mixing Valves (Standard) ☐ TPV Temperature/Pressure-balancing Mixing Valves- Above Deck □ PBV Pressure-Balancing Mixing Valves- Above Deck 4.) Water Actuators: \square KA Knee-activated Actuators (Standard) □ ВВО **Body Bar Actuators**

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

Infrared Sensor Actuators*

🔲 IR

5.) MG	inting Options:	
	'Z' Clips (Wall and	hors by others) (Standard)
☐ MC	Mounting Carrier ((off-floor installation)
☐ ME	Mounting Base (o	n-floor installation)
6.) Op	ions:	
☐ LS	Liquid Soap Dispe	ensers (Knee-activated hydraulic
☐ SD	W Swing Down Eye	Wash (Mixing valve by others)
Oth	er:	

Approved For Manufacturing By:		Date:	Company:
Wall Thickness:	Wall Type:		<u> </u>
WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGNAND DIMENSIONS WITH FACTORY PRIOR TO ROUGHLING SIGNATE RIGHT TO MAKE CHANGES IN DESIGNAND DIMENSIONS WITHOUT INCURRING OBLIGATION. WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGNAND OF SIGNATURE AND WITHOUT INCURRING OBLIGATION. WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGNAND OF SIGNATURE AND WITHOUT INCURRING OBLIGATION. WATER 1-1/2, blief 21/2, day, and	FINISHED FLOOR 1-1/2" PIPE 90" (2) REMOVABLE DIVIDER PANELS WATER 3" 3" 21"	REMOVABLE DIVIDER PANEL WATER 3 1/6" 27 1/2" STUB-OUTS	REMOVABLE FRONT PANEL W/STAINLESS STEEL BOLTS & TINNERMAN NUTS (2) 1/2" HOT & COLD SUPPLY LINES STUB-OUT 2" TO STOP (4) Ø1" MOUNTING HOLES, ANCHORING HARDWARE BY OTHERS (5) SINK BOWLS HAVE SANITARY BEAD-BLAST FINISH (6) UNEXPOSED SINK BOWL SURFACES ARE UNDERCOATED (6" LONG 'Z' CLIPS, ANCHORING HARDWARE BY OTHERS LAMINAR FLOW GOOSENECK SPOUT PANEL W/STAINLESS STEEL BOLTS & TINNERMAN NUTS (4) Ø1" MOUNTING HOLES, ANCHORING

WSSS-ADA Series ADA-Compliant Surgical Scrub Sink





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.

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

Units are provided with front panels which are easily removed for access to valves and waste connections.

Optional Features:

Mounting Carrier



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

5.) Mounting Options:		
☐ MC Mounting Carrier (off-floor installation)	ú	'Z' Clips (Wall anchors by others) (Standard)
6.) Options: Other: Other:	Other:	

ARIPLY ALL DIMENSIONS WITH FACTORY PRIOR FOR THE RIGHT TO ROUGHT T	Approv Wall Th	red For Manufacturing By: Wall Type:	Date:	Company:
TIOV (GFCI) AS REQ'D CONSULT LOCAL ELECTRICAL CODES BEFORE MOUNTING (GFCI PROVIDED BY OTHERS) 1-1/2" PIPE STUB OUT SUPPLY LINES STUB-OUT 2" TO STOP (4) Ø1" MOUNTING HOLES, ANCHORING HARDWARE BY OTHERS 110V (GFCI) AS REQ'D CONSULT LOCAL ELECTRICAL CODES BEFORE MOUNTING (GFCI PROVIDED BY OTHERS) 27" BASIN DEPTH HOLES, ANCHORING HARDWARE BY OTHERS	SIOR TO ROUGH-IN SES IN DESIGN AND ICURRING OBLIGATION.	3 7/8"		IN COMPLIANCE WITH A.D.A. 2010
VERIFY ALL DI WILL ON GHBX SIN 34" 10" 34" 4" 13" 38" FINISHED FLOOR	VERIFY ALL DIMENSIONS WITH FACTORY PR WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANG DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT IN	1/2" HOT & COLD SUPPLY LINES STUB-OUT 2" TO STOP (4) Ø1" MOUNTING HOLES, ANCHORING HARDWARE BY OTHERS 21 5/8" 4" ——————————————————————————————————	CONSI CODES (GFCI BASIN D	DULT LOCAL ELECTRICAL S BEFORE MOUNTING PROVIDED BY OTHERS) 2" "EPTH
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WBL-2320 Ligature-resistant **Solid Surface Behavioral Healthcare** Lavatory





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 electronic push buttons, in Sandstone color with Sanshade side panels

Use the following Willoughby Model Number: WBL-2320-EPBH2-SS-SN

Recommended Specifications

Ligature-resistant, Solid Surface, Behavioral Healthcare Lavatory shall be: Willoughby Model No. WBL-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 is constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. Lavatory bowl shall be rounded to minimize its use as a ligature point.

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.

WBL-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 shall be welded stainless steel with solid polymer side panels to correspond to solid surface lavatory bowl. Trap cover shall be one piece formed stainless steel and attached with stainless steel security screws.

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. Surfacemounted 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)

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1.) Base Model Number: ■ WBL-2320 Single Station Ligature-resistant, Solid Surface Behavioral Healthcare Lavatory 2.) Valve Actuation: ☐ PBH1 Ligature-resistant Push Button for Single Temperature Pneumatic Metering Ligature-resistant Push Buttons for Dual Temperature ☐ PBH2 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, Hard-wired* □ во Infrared Sensor, Battery Operated 3.) Solid Surface Lav. Deck Colors: BN Bone ☐ GW Glacier White GG **Gray Granite** □ SS Sandstone □ WG White Granite ☐ BG **Black Granite** ■ NB Nocturnal Blue

4.)	Solid	Polymer	Side	Panel	Colors:	
-----	-------	---------	------	-------	---------	--

☐ SN Sanshade (Almond)

☐ SM Sea Foam☐ WW White/White

5.) Options:

☐ TL Less In-line Thermostatic Mixing Valve

Other Other

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

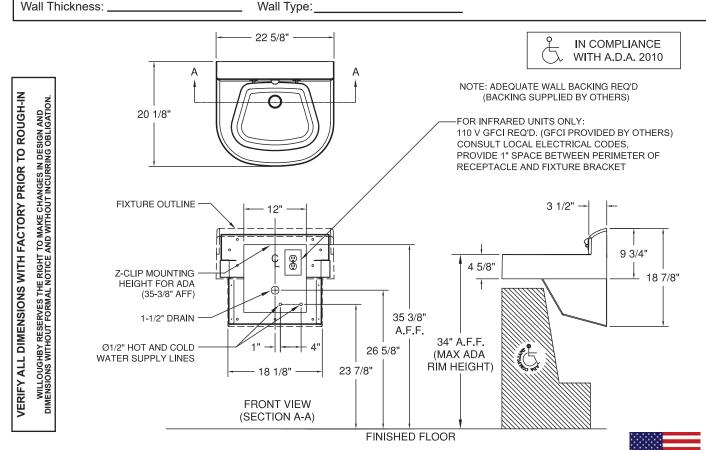
** Piezo Electronic Push Button valve actuation not available on WBL-2320

☐ RC Red Coral

Sea Green

☐ SG

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



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ASWLDR-1922 Ligature-resistant Stainless Steel Behavioral Healthcare Lavatory





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 with dual temp. ligature-resistant pneumatic push buttons, and stainless steel lavatory basin

Use the following Willoughby Model Number:

ASWLDR-1922-PBH2-SSB

Recommended Specifications

Ligature-resistant, Stainless Steel, Behavioral Healthcare Lavatory 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 tail-piece, 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.

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:

- * <u>Note:</u> 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.

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H21-3

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1.) Base Model Number:

☐ ASWLDR-1922 Single Station Ligature-resistant, Stainless Steel,

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)*

> Piezo Push Button for Single Temperature Electronic (w/ Pneutronic Control)*

□ PZPB2 Piezo Push Buttons for Dual Temperature Electronic

> (w/ Pneutronic Control)* Infrared Sensor, Hard-wired*

☐ IR □ во Infrared Sensor, Battery Operated

3.) Options:

□ PZPB1

☐ SSB Stainless Steel Lavatory Basin (basin not powder coated)

☐ LDC Less Powder Coat Finish

☐ TL Less In-line Thermostatic Mixing Valve

Other

□ Other

Approved For Manufacturing By: Date: Company: Wall Thickness: Wall Type: 320157A SPRAYHEAD IN COMPLIANCE VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN WITH A.D.A. 2010 WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION SLOW DRAIN (PBH): (2) LIGATURE-RESISTANT PML2 PNFUMATIC 5-1/2" I-1/2" LAV. WASTE ('P' TRAP BY OTHERS) 12-11/16 14-15/16" (2) 1/2" H & C WATER CONNECTIONS FINISHED FLOOR (11) Ø3/8" MOUNTING HOLES (HARDWARE BY OTHERS)

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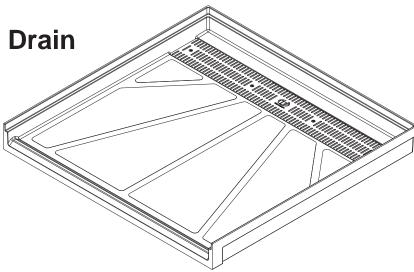
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^{*(}Req. 110V power through ground fault interrupter (GFCI) receptacle)



AS-S3636ADA Aquasurf® Solid Surface 36x36 ADA-Compliant Transfer Shower Base

Transfer Shower Base w/ Integral Rear Trench Drain





IN COMPLIANCE WITH A.D.A. 2010

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.

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).



- 1.) Base Type:
- ☐ AS-S3636ADA

Aguasurf® Solid Surface, 36x36, ADA-Compliant, Transfer Shower Base with Integral Rear Trench Drain

- 4.) Commercial Wall Kit Option (1/4" Panels):
- ☐ ASK-S363684 (3) 36" x 84" Panels
 - (2) (AS-IS-CV8) Inside Corner Cove Overlay

- 2.) Drain Position (See Drawing Below):
- Left Drain □ C Center Drain Right Drain
- 3.) Solid Surface Colors:
- □ BN Bone
- ☐ GW Glacier White Grey Granite
- GG GG ☐ SS Sandstone
- ☐ WG White Granite
- ☐ BG Black Granite
- NB Nocturnal Blue Red Coral
- ☐ RC ☐ SG Sea Green

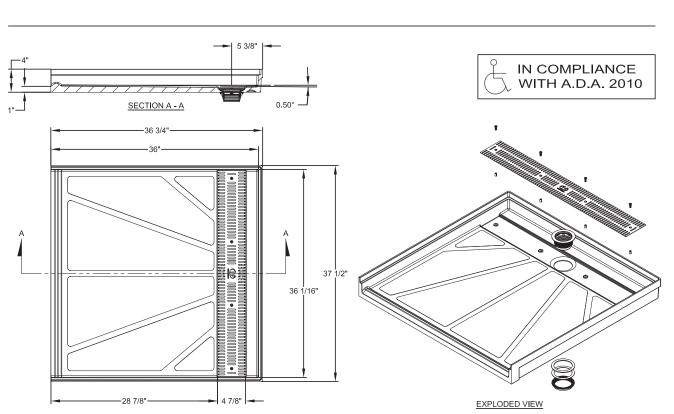
- 5.) Accessories:
- □ AS-SSH

Soap/Shampoo Holder

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

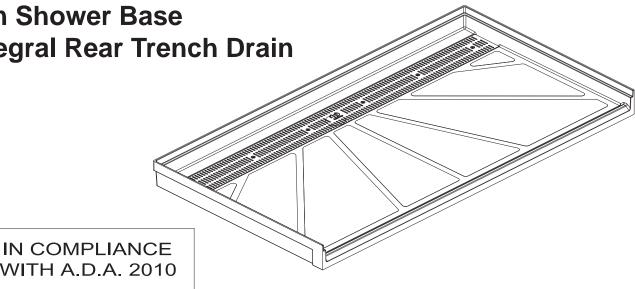


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Recommended Specifications

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.

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).



1.) Base Type:

☐ AS-S3060ADA Aguasurf® 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 Bone
- ☐ GW Glacier White
- GG GG Grey Granite
- □ SS Sandstone
- ☐ WG White Granite ☐ BG Black Granite
- NB Nocturnal Blue
- ☐ RC Red Coral ☐ SG Sea Green

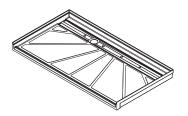
- 4.) Commercial Wall Kit Option (1/4" Panels):
- ☐ ASK-S603684 (2) 36" x 84" Panels
 - (2) 29-1/2" x 84" Panels
 - (1) 3" x 84" Overlay
 - (2) (AS-IS-CV8) Inside Corner Cove Overlay

5.) Accessories:

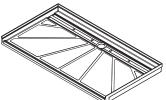
■ AS-SSH

Soap/Shampoo Holder

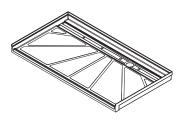
Approved For Manufacturing By:	Date:	Company:	







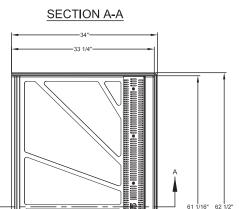
AS-S3060ADA-C (CENTER DRAIN)

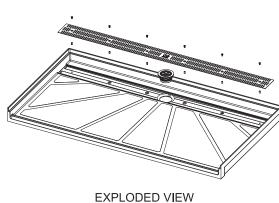


AS-S3060ADA-R (RIGHT DRAIN)











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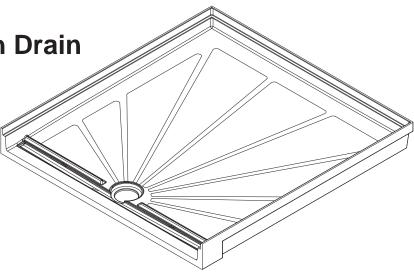


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AS-S3840FA Aquasurf® Solid Surface 36x36 ADA-Compliant

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-S3840FA (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.

Shower Base shall have integrally molded support bracing on bottom, positive sloped non-slip textured interior floor and integral perimeter flange. Aquasurf® Solid Surface Products Shower Base shall incorporate integral threshold, curb and 2" no-hub drain connection.

ADA Accessibility (consult local code requirements for design integration) shall incorporate a front forward drain with integrally sloped trench, allowing for drainage of shower curtain run-off. The integral front transition strip shall provide room floor drainage toward trench and shower access ramping.

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 in glacier white

Use the following Willoughby Model Number:

AS-S3840FA-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:

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).



1.) Base Type:

☐ AS-S3840FA Aguasurf® Solid Surface, 36x36, ADA-Compliant,

Transfer Shower Base with Integral Front Trench Drain

2.) Commercial Wall Kits (1/4" Panels):

☐ ASK-S363684 (3) 36" x 84" Panels

(2) (AS-IS-CV8) Inside Corner Cove Overlay

3.) Accessories:

Soap/Shampoo Holder ■ AS-SSH

4.) Solid Surface Colors:

■ BN Bone

☐ GW Glacier White

☐ GG **Grey Granite**

☐ SS Sandstone ■ WG White Granite

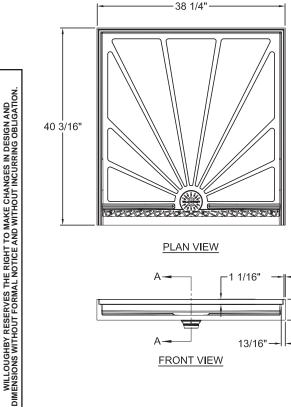
☐ BG ☐ NB Black Granite

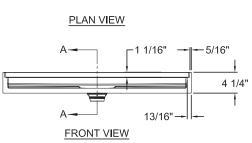
Nocturnal Blue

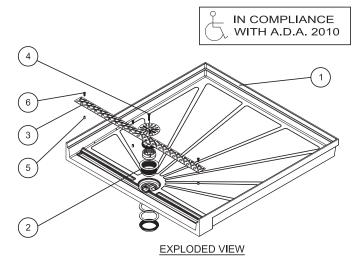
RC Red Coral

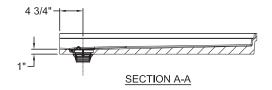
☐ SG Sea Green

Approved For Manufacturing By: _ Date: _ Company:







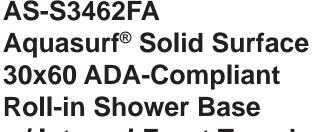


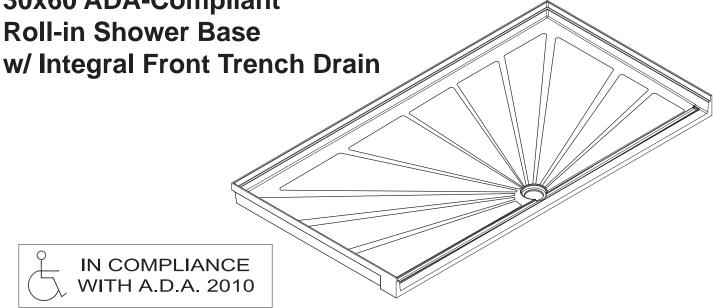
ITEM#	PART#	DESCRIPTION	QTY.
1	AS-S3840FA	AS-S3840FA SHOWER BASE	1
2	900520S	DRAIN ASSEMBLY, W/ MOD. INTERNAL RING	1
3	S005314	TRENCH DRAIN COVER	1
4	800127	1/4-20 X 1-1/2" FH SECURITY SCREW	1
5	991020	INSERT, BRASS, 1/4-20 x 1/2"	4
6	4503SSN	SCREW, 1/4-20 X 3/4" SECURITY SCREW (FH)	4



VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN







Recommended Specifications

Aquasurf® Solid Surface, 30x60, ADA-Compliant, Roll-in Shower Base with Integral Front Trench Drain shall be: Willoughby Model No. AS-S3462FA (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.

Shower Base shall have integrally molded support bracing on bottom, positive sloped non-slip textured interior floor and integral perimeter flange. Aquasurf® Solid Surface Products Shower Base shall incorporate integral threshold, curb, and 2" no-hub drain connection.

ADA Accessibility (consult local code requirements for design integration) shall incorporate a front forward drain with integrally sloped trench, allowing for drainage of shower curtain run-off. The integral front transition strip shall provide room floor drainage toward trench and shower access ramping.

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 Front Trench Drain in glacier white

Use the following Willoughby Model Number:

AS-S3462FA-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:

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).



1.) Base Type:

■ AS-S3462FA Aguasurf® Solid Surface, 30x60, ADA-Compliant,

Roll-in Shower Base with Integral Front Trench Drain

2.) Commercial Wall Kits (1/4" Panels):

☐ ASK-S603684 (2) 36" x 84" Panels

(2) 29-1/2" x 84" Panels (1) 3" x 84" Overlay

(2) (AS-IS-CV8) Inside Corner Cove Overlay

3.) Accessories:

Soap/Shampoo Holder □ AS-SSH

4.) Solid Surface Color:

☐ BN Bone

☐ GW Glacier White

☐ GG Grey Granite

☐ SS Sandstone

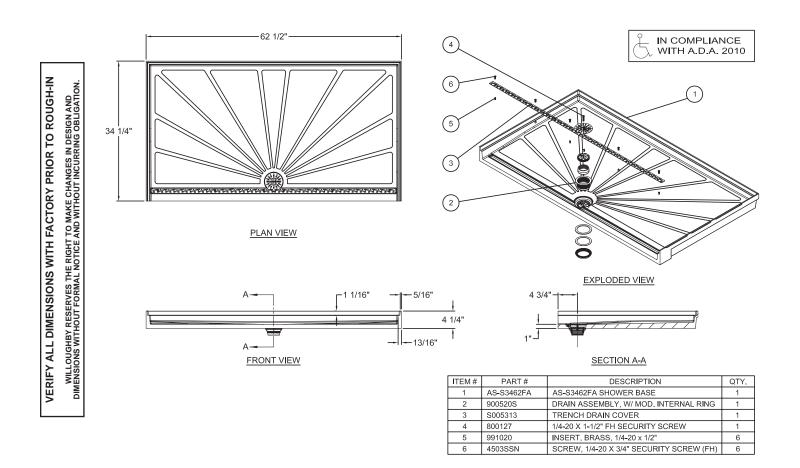
■ WG White Granite Black Granite

☐ BG ☐ NB Nocturnal Blue

☐ RC Red Coral

SG Sea Green

Approved For Manufacturing By: Company: Date: _

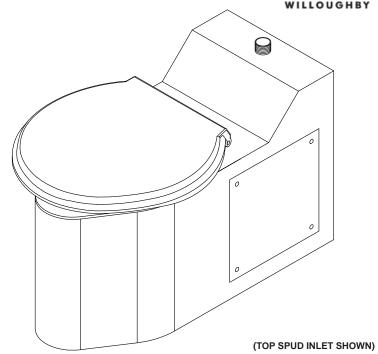






BETW-1490-FM-FA Front Access Wall Outlet Blowout Series Bariatric Toilet





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

Front Access, Wall Outlet, Blowout Series Bariatric 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 2-1/2" O.D. trap which shall maintain a minimum 3-1/2" seal and pass a 2-1/8" ball. 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.

*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 Front Access, Wall Outlet, Blowout Series Bariatric Toilet

2.) Inlet Location:

□ BS Back Spud□ TS Top Spud

3.) Flush Valve GPF's (Must Specify):

☐ 1.28 GPF HET

☐ 1.6 GPF ULF (Standard)

☐ 3.5 GPF (3" Waste Tube Required)

4.) Options:

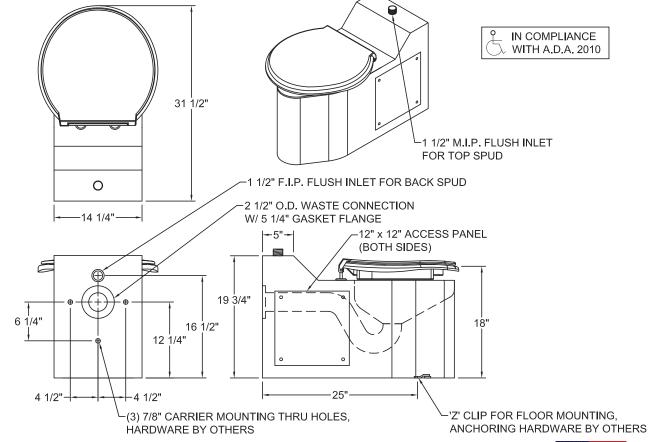
□ BL Bedpan Lugs□ SLL Seat Less Lid□ FV Flush Valve

☐ FVC☐ FVT☐ FVT☐ APFlush Valve Connection☐ APFlush Valve Access Panel

RTH2 Front Access Wall Mounted Recessed Tissue Holder

□ Other:
_____ Other:

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



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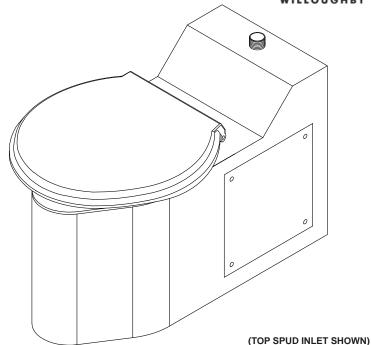
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W)

BETWS-1490-FM-FA Front Access Wall Outlet Siphon Jet Series Bariatric 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

Front Access, Wall Outlet, Siphon Jet Series Bariatric 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 2-1/2" O.D. trap which shall maintain a minimum 3-1/2" seal and pass a 2-1/8" ball. 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.

*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 Front Access, Wall Outlet, Siphon Jet Series Bariatric Toilet

2.) Inlet Location:

□ BS Back Spud□ TS Top Spud

3.) Flush Valve GPF's (Must Specify):

☐ 1.28 GPF HET

☐ 1.6 GPF ULF (Standard)

☐ 3.5 GPF (3" Waste Tube Required)

4.) Options:

□ BL Bedpan Lugs□ SLL Seat Less Lid□ FV Flush Valve

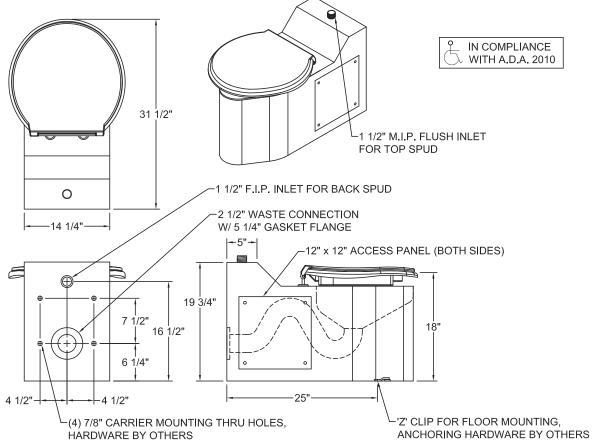
☐ FVC☐ FVT☐ FVT☐ APFlush Valve Connection☐ APFlush Valve Access Panel

RTH2 Front Access Wall Mounted Recessed Tissue Holder

□ Other:
_____ Other:

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

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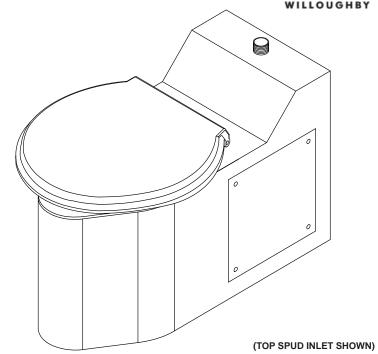
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BETF-1490-FM-FA
Front Access
Floor Outlet
Siphon Jet Series
Bariatric Toilet





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

Front Access, Floor Outlet, Siphon Jet Series Bariatric 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 2-1/2" O.D. trap which shall maintain a minimum 3-1/2" seal and pass a 2-1/8" ball. 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.

*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 Front Access, Floor Outlet, Siphon Jet Series Bariatric Toilet

2.) Inlet Location:

☐ BS Back Spud □ TS Top Spud

3.) Flush Valve GPF's (Must Specify):

GPF HET 1.28

1.6 GPF ULF (Standard)

3.5 GPF (3" Waste Tube Required)

4.) Options:

□ BL Bedpan Lugs Seat Less Lid ☐ SLL Flush Valve ☐ FV

☐ FVC Flush Valve Cover (Top Spud) ☐ FVT Flush Valve Connection Flush Valve Access Panel

■ MT Metal Template

RTH2 Front Access Wall Mounted Recessed Tissue Holder

Other: Other:

Approved For Manufacturing By: ____ _____ Company: __ Wall Type: Wall Thickness: IN COMPLIANCE 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 WITH A.D.A. 2010 31 1/2" 1 1/2" M.I.P. FLUSH INLET FOR TOP SPUD 0 1 1/2" F.I.P. FLUSH INLET FOR BACK SPUD 14 1/4" -5" x 12" ACCESS PANEL (BOTH SIDES) 19 3/4" 18" 16 1/2" 3 3/4" 4 3/8" 'Z' CLIP FOR FLOOR MOUNTING, 5 3/4' -5 3/4" ANCHORING HARDWARE BY OTHERS (4) 3/4" HOLES, ANCHORING 2 1/2" WASTE CONNECTION HARDWARE BY OTHERS

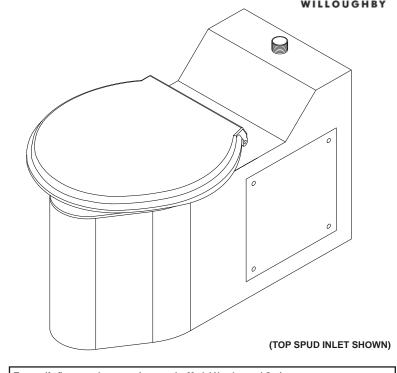
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W/ 7 1/2" GASKET FLANGE



BETF-1490-FM-FA-10"
10" Rough-In
Front Access
Floor Outlet
Siphon Jet Series
Bariatric Toilet





Recommended Specifications

10" Rough-In, Front Access, Floor Outlet, Siphon Jet Series Bariatric 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 2-1/2" O.D. trap which shall maintain a minimum 3-1/2" seal and pass a 2-1/8" ball. 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.

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

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.

*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" 10" Rough-In, Front Access, Floor Outlet, Siphon Jet Series Bariatric Toilet

2.) Inlet Location:

□ BS Back Spud□ TS Top Spud

3.) Flush Valve GPF's (Must Specify):

☐ 1.28 GPF HET

☐ 1.6 GPF ULF (Standard)

☐ 3.5 GPF (3" Waste Tube Required)

4.) Options:

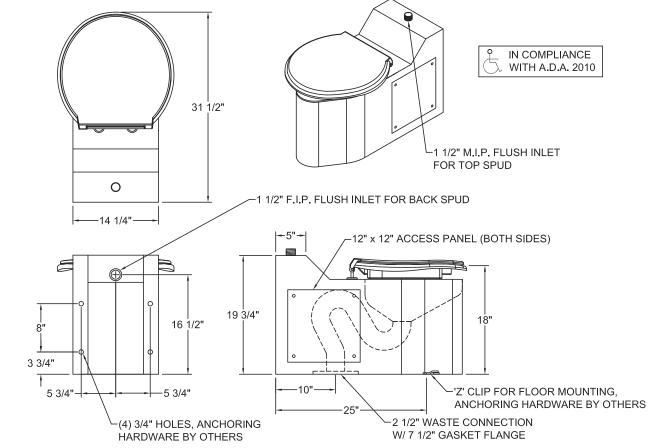
□ BL Bedpan Lugs□ SLL Seat Less Lid□ FV Flush Valve

☐ FVC☐ FVT☐ FVT☐ APFlush Valve Connection☐ APFlush Valve Access Panel

RTH2 Front Access Wall Mounted Recessed Tissue Holder

□ Other:
_____ Other:

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

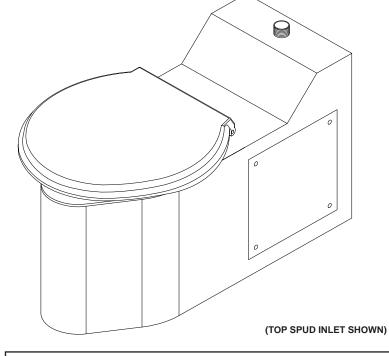


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BETF-1490-FM-FA-12"
12" Rough-In
Front Access
Floor Outlet
Siphon Jet Series
Bariatric Toilet





Recommended Specifications

12" Rough-In, Front Access, Floor Outlet, Siphon Jet Series Bariatric 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 2-1/2" O.D. trap which shall maintain a minimum 3-1/2" seal and pass a 2-1/8" ball. 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.

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 back spud, flush valve and wall mounted recessed tissue holder

Use the following Willoughby Model Number:

BETF-1490-FM-FA-12-BS-FV-RTH1

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.

*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-12" 12" Rough-In, Front Access, Floor Outlet, Siphon Jet Series Bariatric Toilet

2.) Inlet Location:

□ BS Back Spud□ TS Top Spud

3.) Flush Valve GPF's (Must Specify):

☐ 1.28 GPF HET

☐ 1.6 GPF ULF (Standard)

☐ 3.5 GPF (3" Waste Tube Required)

4.) Options:

□ BL Bedpan Lugs□ SLL Seat Less Lid□ FV Flush Valve

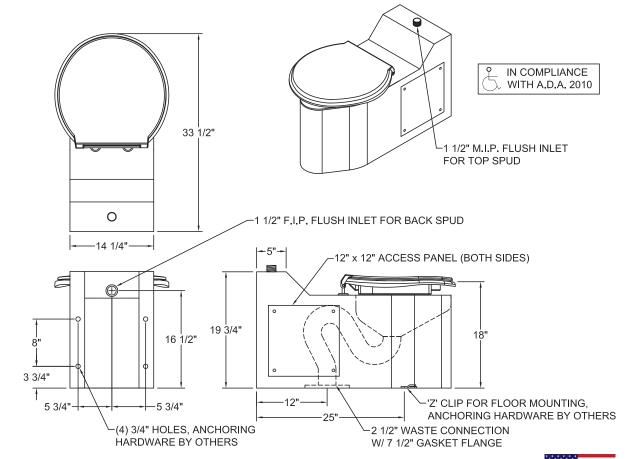
☐ FVC☐ FVT☐ FVT☐ APFlush Valve Connection☐ APFlush Valve Access Panel

RTH2 Front Access Wall Mounted Recessed Tissue Holder

☐ Other:☐ Other:

Approved For Manufacturing By: ______ Date: _____ Company: _____ 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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BHS-3123
ADA-Compliant
Solid Surface
Bariatric Lavatory



Recommended Specifications

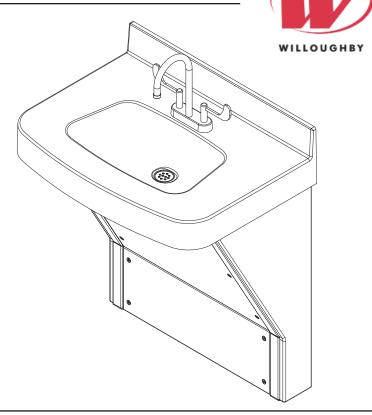
ADA-Compliant, Solid Surface Bariatric Lavatory shall be: Willoughby Model No: **BHS-3123** (Select from model number and options list on next page)

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 and mineral fillers. 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.



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

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.

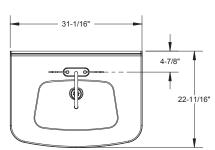
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MADE IN THE **U.S.A.**

□ SSF Gooseneck Sensor Spout, Center Shank IR Operated, Laminar Flow (12v transformer is required) □ SSFB Gooseneck Sensor Spout, Center Shank IR (Battery Operated), Laminar Flow □ NV No Valve, No Faucet/Spout- Faucet by Others (Select Hole Punching if needed) □ NV NoTE: If hole drilling is required, please submit faucet for approval □ 4CC 4" Centerset, Ø1" Holes (Specify 2 or 3 holes: □) □ 1CC Center Shank, (1) Ø1" Hole □ QNW White White Wood Grain Premium Colors (Optional- at additional cost) □ WM Majestic Walnut □ MM Majestic Walnut □ WL Amati Walnut □ WI Template □ 12v Plug-in Transformer (SSF faucet only) □ 12v Hard-wire Transformer (SSF faucet only) □ 12v Hard-wire Transformer (SSF faucet only)	1.) Lavat	ory Model:	5.) Side Panels:	
2.) Faucet**: WB1	BHS-3	ADA-Compliant, Solid Surface Bariatric Lavatory	Polymer Colors ((Standard)
WB1			☐ AW	Arctic White
SSF Gooseneck Sensor Spout, Center Shank IR Operated, Laminar Flow (12v transformer is required) SSFB Gooseneck Sensor Spout, Center Shank IR (Battery Operated), Laminar Flow NV No Valve, No Faucet/Spout- Faucet by Others (Select Hole Punching if needed) 3.) Hole Drilling Selection (Faucet by Others): NOTE: If hole drilling is required, please submit faucet for approval 4CC 4" Centerset, Ø1" Holes (Specify 2 or 3 holes: SC 8" Centerset, Ø1" Holes (Specify 2 or 3 holes: Center Shank, (1) Ø1" Hole Center Shank, (1) Ø1" Hole SPECial Punching/Drilling (Specify hole punching dim.) SP: 4.) Lavatory Deck Colors: BN Bone GG Grey Granite SS Sandstone WG White Granite BG Black Granite BG Black Granite BR RC Red Coral SG Sea Green Date: Approved For Manufacturing By: Date: Company:	2.) Fauce	t**:	☐ SM	Sea Foam
SSF Gooseneck Sensor Spout, Center Shank IR Operated, Laminar Flow (12v transformer is required) Wwo degrain Premium Colors (Optional- at additional cost) SSFB Gooseneck Sensor Spout, Center Shank IR (Battery Operated), Laminar Flow NV No Valve, No Faucet/Spout- Faucet by Others (Select Hole Punching if needed) MW Majestic Walnut MW Majestic Walnut 3.) Hole Drilling Selection (Faucet by Others): NOTE: If hole drilling is required, please submit faucet for approval MT Wall Template MW Inline Thermostatic Mixing Valve MW Inline The	☐ WB1	1.5 gpm, 4CC, Rigid 8" Gooseneck, Wristblade Faucet (Standard)	☐ SN	Sanshade (Almond)
□ SSFB Gooseneck Sensor Spout, Center Shank IR (Battery Operated), Laminar Flow NV No Valve, No Faucet/Spout- Faucet by Others (Select Hole Punching if needed) 3.) Hole Drilling Selection (Faucet by Others): NOTE: If hole drilling is required, please submit faucet for approval MT Wall Template MV Inline Thermostatic Mixing Valve BCC 8" Centerset, Ø1" Holes (Specify 2 or 3 holes: TMV Inline Thermostatic Mixing Valve TF12PI 12v Plug-in Transformer (SSF faucet only) AMT Antimicrobial Trap* Antimicrobial Trap* Antimicrobial Trap* Antimicrobial Trap* 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. Approved For Manufacturing By: Date: Company:	SSF	Gooseneck Sensor Spout, Center Shank IR Operated,	□ ww	White White
□ SSFB Gooseneck Sensor Spout, Center Shank IR (Battery Operated), Laminar Flow NV No Valve, No Faucet/Spout- Faucet by Others (Select Hole Punching if needed) 3.) Hole Drilling Selection (Faucet by Others): NOTE: If hole drilling is required, please submit faucet for approval MT Wall Template MV Inline Thermostatic Mixing Valve BCC 8" Centerset, Ø1" Holes (Specify 2 or 3 holes: TMV Inline Thermostatic Mixing Valve TF12PI 12v Plug-in Transformer (SSF faucet only) AMT Antimicrobial Trap* Antimicrobial Trap* Antimicrobial Trap* Antimicrobial Trap* 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. Approved For Manufacturing By: Date: Company:		Laminar Flow (12v transformer is required)	Wood Grain Pre	mium Colors (Optional- at additional cost)
(Select Hole Punching if needed) WL Amati Walnut	☐ SSFB	Gooseneck Sensor Spout, Center Shank IR (Battery Operated), Laminar Flow		
3.) Hole Drilling Selection (Faucet by Others): NOTE: If hole drilling is required, please submit faucet for approval 4CC 4" Centerset, Ø1" Holes (Specify 2 or 3 holes:) BCC 8" Centerset, Ø1" Holes (Specify 2 or 3 holes:) Center Shank, (1) Ø1" Hole SP Special Punching/Drilling (Specify hole punching dim.) SP: 4.) Lavatory Deck Colors: BN Bone GW Glacier White GG Grey Granite SS Sandstone WG White Granite BG Black Granite BG Black Granite BG Black Granite BG RC Red Coral RC Red Coral Approved For Manufacturing By: Approved For Manufacturing By: BC. Other: MMT Wall Template MT Wall Template MMT Wall Template MAT Wall Template MAT Antimic Tobsatic Mixing Valve MANT Antimic Transformer (SSF faucet only) Antimicrobial Trap* *Antimicrobial Trap* *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. Approved For Manufacturing By: Date: Company:	□ NV	No Valve, No Faucet/Spout- Faucet by Others	■ MW	Majestic Walnut
NOTE: If hole drilling is required, please submit faucet for approval 4CC 4" Centerset, Ø1" Holes (Specify 2 or 3 holes:) 8CC 8" Centerset, Ø1" Holes (Specify 2 or 3 holes:) 1CC Center Shank, (1) Ø1" Hole SP Special Punching/Drilling (Specify hole punching dim.) SP:		(Select Hole Punching if needed)	☐ WL	Amati Walnut
4CC 4" Centerset, Ø1" Holes (Specify 2 or 3 holes:) TMV Inline Thermostatic Mixing Valve 8CC 8" Centerset, Ø1" Holes (Specify 2 or 3 holes:) TF12Pl 12v Plug-in Transformer (SSF faucet only) 1CC Center Shank, (1) Ø1" Hole TF12Pl 12v Hard-wire Transformer (SSF faucet only) SP Special Punching/Drilling (Specify hole punching dim.) AMT Antimicrobial Trap* 4.) Lavatory Deck Colors: BN Bone GW Glacier White GG Grey Granite SS Sandstone WS White Granite *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. Approved For Manufacturing By: Date: Company:	3.) Hole I	Drilling Selection (Faucet by Others):	6.) Other:	
□ 8CC 8" Centerset, Ø1" Holes (Specify 2 or 3 holes:) □ 1CC Center Shank, (1) Ø1" Hole □ SP Special Punching/Drilling (Specify hole punching dim.) SP: 4.) Lavatory 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:	NOTE	: If hole drilling is required, please submit faucet for approval	□ MT	Wall Template
□ 1CC Center Shank, (1) Ø1" Hole □ TF12HW 12v Hard-wire Transformer (SSF faucet only) □ SP Special Punching/Drilling (Specify hole punching dim.) SP: □ AMT Antimicrobial Trap* 4.) Lavatory Deck Colors: □ BN Bone □ Grey Granite □ SS Sandstone □ WG White Granite □ SS Sandstone □ WG White Granite □ SB Black Granite □ SB Black Granite □ SB Sea Green □ WG White Granite □ SS Sea Green □ Transformer (SSF faucet only) □ AMT Antimicrobial Trap* *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. Approved For Manufacturing By: □ Date: □ Company: □	☐ 4CC	4" Centerset, Ø1" Holes (Specify 2 or 3 holes:)	■ TMV	Inline Thermostatic Mixing Valve
□ SP Special Punching/Drilling (Specify hole punching dim.) SP:	☐ 8CC	8" Centerset, Ø1" Holes (Specify 2 or 3 holes:)	☐ TF12PI	12v Plug-in Transformer (SSF faucet only)
4.) Lavatory Deck Colors: BN Bone GW Glacier White GG Grey Granite SS Sandstone WG White Granite BG Black Granite BG Black Granite NB Nocturnal Blue RC Red Coral SG Sea Green Approved For Manufacturing By: Date: Company:	☐ 1CC	Center Shank, (1) Ø1" Hole	☐ TF12HW	12v Hard-wire Transformer (SSF faucet only)
4.) Lavatory Deck Colors: BN Bone GW Glacier White GG Grey Granite SS Sandstone WG White Granite BG Black Granite BB Black Granite NB Nocturnal Blue RC Red Coral SG Sea Green Approved For Manufacturing By: Date: Company:	□ SP		☐ AMT	Antimicrobial Trap*
□ 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 *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. Approved For Manufacturing By: Date: Company:		SP:		
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:	•			
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:	_			
□ SS Sandstone □ WG White Granite *Antimicrobial properties are built-in to inhibit the growth of backeria that may affect this product. The antimicrobial properties teria 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. Approved For Manufacturing By: Date: Company:				
□ WG White Granite *Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties □ NB Nocturnal Blue do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices. □ SG Sea Green Date:		·		
□ BG Black Granite teria 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. □ RC Red Coral or other disease organisms. Always use good hygienic cleaning practices. Approved For Manufacturing By: Date: Company:				
□ NB Nocturnal Blue do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices. □ SG Sea Green Date: Company:				
□ RC Red Coral or other disease organisms. Always use good hygienic cleaning practices. □ SG Sea Green Date: Company:			•	
☐ SG Sea Green practices. Approved For Manufacturing By: Date: Company:	_			, , , , ,
Approved For Manufacturing By: Date: Company:	_			organisms. Always use good hygienic cleaning
	□ SG	Sea Green	practices.	
	Appro	ved For Manufacturing By:	Date:	Company:

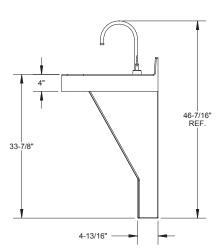
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37-7/8" REF.

29-1/2"

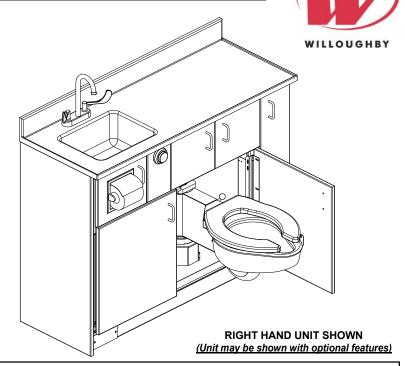
**NOTICE: Faucet options for the BHS-3123
Bariatric Lavatory have been selected to specifically minimize splashing and aerosolization when used with the BHS-3123.
Willoughby Industries will not be held liable for any unintended splashing resulting from use of a faucet not supplied by Willoughby Industries or without prior approval by Willoughby Industries.



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WH-1700 Series Swivel Toilet Patient Care Unit



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 fauce, standard bedpan washer with elevated atm. vacuum breaker, 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-BWSEV-SDB

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.)

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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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

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
- Available code variance-specific equipment

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: For HET 1.28 GPF, unit will pass a 2" ball.

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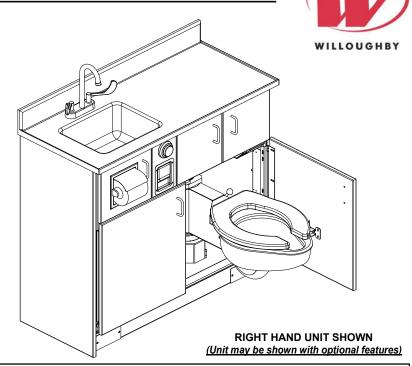
•	nt Care Unit Model Number:	6.) Count	ertop Color (AQCT) (Must Specify):	10.) Other O	ptions:
☐ WH-1	, ,	☐ BN	Bone	■ BWSEV	Bedpan Washer & Elevated Atmospheri
☐ WH-1	700-L (Left hand toilet, Right sink)	☐ GW ☐ GG	Glacier White	D DWSEV.	Vacuum Breaker
2 \ Flush	Valve GPF (Must Specify):	☐ SS	Grey Granite Sandstone	☐ BWSEV-V	C Bedpan Washer, Elevated Atmospheric Vacuum Breaker & Volume Control
1.28		☐ WG	White Granite	BWSCV	Bedpan Washer & Continuous Pressure
_	PF ULF (Standard)	☐ BG	Black Granite	_	Vacuum Breaker
☐ 3.5 GF	PF (3" waste tube required)	■ NB	Nocturnal Blue	BWSCV-V	/C Bedpan Washer, Continuous Pressure
		☐ RC	Red Coral		Vacuum Breaker & Volume Control
,	Fixture (Stainless Steel):	☐ SG	Sea Green	_	ntegral Cabinet Single Valve Dialysis Box
☐ SFO	Swivel Toilet/Wall Outlet Swivel Toilet/Floor Outlet	7) Count	ertop Sink Bowl Color:	_	ntegral Cabinet Dual Valve Dialysis Box Intimicrobial White Exterior Toilet Finish*
_ 0.0	OWIVER TORICHT TOOL OUTLET	□ BCM	Countertop-matching (Standard)		edpan Lugs
4.) Toilet	Waste	BBN	Bone	_	oilet Flush Lock
_	_ Toilet Waste Coupling, for (SWO) only	☐ BGW	Glacier White	☐ PAD P	addle Latch Toilet Release
(Must Spe	ecify Connection):				
	□ 3P Connecting to 3" PVC□ 3C Connecting to 3" Cast Iron	8.) Backs	plash Orientation: Back Wall Only (1 Wall) (Standard)	11.) Code Va ☐ TMV	ariances: Inline Thermostatic Mixing Valve
	☐ 4P Connecting to 3 Cast from	<u> </u>	Right Hand Corner (2 Wall)	_	Dialysis Box Drain /Trap
	☐ 4C Connecting to 4" Cast Iron	3 3	Left Hand Corner (2 Wall)	☐ PTC	'P' Trap w/Clean-out Plug
☐ TWG	Toilet Waste Gasket, for (SFO) only	<u> </u>	Alcove (3 Wall)	LSS	1/2" x 3/8" Lavatory Supply Stops
				☐ TF12PI	12v Plug-in Transformer (SSF faucet only)
-	or Polymer Panel Color (Must Specify):	9.) Faucet		TF12HW	12v Hard-wire Transformer (SSF faucet only)
☐ AW	Arctic White White/White	☐ WB	Gooseneck Spout, Laminar Flow, Wristblade Handles, 4CC	Other _	
☐ WW ☐ LG	Light Grey	☐ FPF	Gooseneck Spout, Laminar Flow,	U Other _	
SN	Sanshade (Almond)		Foot Pedal Valve		
SM	Seafoam	☐ SSF	Gooseneck Sensor Spout, Center		
DG	Dolphin Grey		Shank IR Operated, Laminar Flow		ial properties are built-in to inhibit the growth
		□ 00EB	(12v transformer is required)		hat may affect this product. The antimicrobial
		☐ SSFB	Gooseneck Sensor Spout, Center Shank IR (Battery Operated),		lo not protect users or others against bacteria ms, or other disease organisms. Always use
			Laminar Flow		nic cleaning practices.
					• • • • • • • • • • • • • • • • • • • •
Appro	ved For Manufacturing By:		Date:		Company:
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ROUGH-IN SIGN AND DELIGATION.	18 5/8" 10 1/2" 13 1/2"	_ Wall 1	REFERENCE: S900641 NOTE: RIGHT HAND MO LEFT HAND IS SYMMET OPPOSITE NOTE: REFERENCE ROUGH-IN TEMPLATES WALL: S901913	DDEL SHOWN,	Company:
ROUGH-IN SIGN AND DELIGATION.	18 5/8" 10 1/2" 13 1/2"	_ Wall 1	REFERENCE: S900641 NOTE: RIGHT HAND MO LEFT HAND IS SYMMET OPPOSITE NOTE: REFERENCE ROUGH-IN TEMPLATES WALL: S901913	DDEL SHOWN,	Company:
ROUGH-IN SIGN AND DELIGATION.	18 5/8" 10 1/2" 4 1/4" 13 1/2" 4 5/8"	_ Wall 1	REFERENCE: S900641 NOTE: RIGHT HAND MO LEFT HAND IS SYMMET OPPOSITE NOTE: REFERENCE ROUGH-IN TEMPLATES WALL: S901913	DDEL SHOWN,	Company:
ROUGH-IN SIGN AND DELIGATION.	18 5/8" 10 1/2" 4 1/4" 13 1/2" 4 5/8"	_ Wall 1	REFERENCE: S900641 NOTE: RIGHT HAND MO LEFT HAND IS SYMMET OPPOSITE NOTE: REFERENCE ROUGH-IN TEMPLATES WALL: S901913	DDEL SHOWN,	Company:
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ROUGH-IN SIGN AND DELIGATION.	18 5/8" 10 1/2" 4 1/4" 13 1/2" 4 5/8"	_ Wall 1	REFERENCE: S900641 NOTE: RIGHT HAND MO LEFT HAND IS SYMMET OPPOSITE NOTE: REFERENCE ROUGH-IN TEMPLATES WALL: S901913	DDEL SHOWN,	9 3/8"
ROUGH-IN SIGN AND OBLIGATION.	18 5/8" 10 1/2" 4 1/4" 13 1/2" 4 5/8"	47 3/4"	REFERENCE: S900641 NOTE: RIGHT HAND MO LEFT HAND IS SYMMET OPPOSITE NOTE: REFERENCE ROUGH-IN TEMPLATES WALL: S901913	DDEL SHOWN,	9 3/8"
ROUGH-IN SIGN AND OBLIGATION.	18 5/8" 10 1/2" 4 1/4" 13 1/2" 4 5/8"	47 3/4"	REFERENCE: S900641 NOTE: RIGHT HAND MC LEFT HAND IS SYMMET OPPOSITE NOTE: REFERENCE ROUGH-IN TEMPLATES WALL: S901913 FLOOR: S900608	DDEL SHOWN,	9 3/8"
ROUGH-IN SIGN AND DELIGATION.	18 5/8" 10 1/2" 4 1/4" 13 1/2" 4 5/8"	47 3/4"	REFERENCE: S900641 NOTE: RIGHT HAND MC LEFT HAND IS SYMMET OPPOSITE NOTE: REFERENCE ROUGH-IN TEMPLATES WALL: S901913 FLOOR: S900608	DDEL SHOWN,	9 3/8"
ROUGH-IN SIGN AND DELIGATION.	18 5/8" 10 1/2" 4 1/4" 13 1/2" 4 5/8"	47 3/4"	REFERENCE: S900641 NOTE: RIGHT HAND MOLEFT HAND IS SYMMET OPPOSITE NOTE: REFERENCE ROUGH-IN TEMPLATES WALL: S901913 FLOOR: S900608	DDEL SHOWN,	9 3/8"
Mall T	18 5/8" 10 1/2" 4 1/4" 13 1/2" 4 5/8"	47 3/4"	REFERENCE: S900641 NOTE: RIGHT HAND MOLEFT HAND IS SYMMET OPPOSITE NOTE: REFERENCE ROUGH-IN TEMPLATES WALL: S901913 FLOOR: S900608	DDEL SHOWN,	9 3/8"
ROUGH-IN SIGN AND DELIGATION.	18 5/8" 10 1/2" 4 1/4" 13 1/2" 39 3/4"	47 3/4"	REFERENCE: S900641 NOTE: RIGHT HAND MOLEFT HAND IS SYMMET OPPOSITE NOTE: REFERENCE ROUGH-IN TEMPLATES WALL: S901913 FLOOR: S900608	DDEL SHOWN,	9 3/8" 4 5/8" 5 1/4"

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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 gooseneck wrist-blade faucet, bedpan washer with elevated atm. vacuum breaker, 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-BWSEV-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>

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 (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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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

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
- Available code variance-specific equipment

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: For HET 1.28 GPF, unit will pass a 2" ball.

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		N	IODEL	NUMBER	AND OF	IION	S :	
•	ent Care Uni -1750-R	it Model Number: (Right hand toilet, Left sink)	6.) Count	ertop Color (AQCT) (Bone	(Must Specify):	10.) Othe	r Options:	: Bedpan Washer & Elevated Atmospheric
☐ WH	-1750-L	(Left hand toilet, Right sink)	☐ GW ☐ GG	Glacier White Grey Granite		☐ BWSE	V-VC	Vacuum Breaker Bedpan Washer, Elevated Atmospheric
2.) Flus	h Valve GPF	(Must Specify):	☐ SS	Sandstone		_		Vacuum Breaker & Volume Control
	GPF HET	dD	☐ WG	White Granite		BWSC	V	Bedpan Washer & Continuous Pressure
	GPF ULF (Sta GPF (3" wast	andard) e tube required)	☐ BG ☐ NB	Black Granite Nocturnal Blue		BWSC	V-VC	Vacuum Breaker Bedpan Washer, Continuous Pressure
_ 0.0	511 (0 Wast	e tabe required)	☐ RC	Red Coral		_ bwee	V-V-	Vacuum Breaker & Volume Control
-		tainless Steel):	☐ SG	Sea Green		SDB	•	Cabinet Single Valve Dialysis Box
		ilet/Wall Outlet	7 \ Count	ertop Sink Bowl Col	~		-	Cabinet Dual Valve Dialysis Box
☐ SFC	Swivel id	oilet/Floor Outlet	BCM	Countertop-matching		☐ DC ☐ BL	Bedpan I	bbial White Exterior Toilet Finish* Lugs
4.) Toile	et Waste		☐ BBN	Bone	9 (TFL	Toilet Flu	•
	Toilet Wa	ste Coupling, for (SWO) only	☐ BGW	Glacier White		☐ PAD	Paddle L	atch Toilet Release
(Maor C	☐ 3P	Connecting to 3" PVC	8.) Backs	plash Orientation:		11.) Code	Variance	s:
	□ 3C	Connecting to 3" Cast Iron	1	Back Wall Only (1 W	, ,	☐ TMV		Thermostatic Mixing Valve
	☐ 4P	Connecting to 4" PVC	<u>2</u>	Right Hand Corner (,	☐ DBDR	•	is Box Drain /Trap
☐ TWO	☐ 4C Toilet Wa	Connecting to 4" Cast Iron ste Gasket, for (SFO) only	□ 3 □ 4	Left Hand Corner (2 Alcove (3 Wall)	vvaii)	☐ PTC ☐ LSS		p w/Clean-out Plug 3/8" Lavatory Supply Stops
	701101 114	oto odokot, for (or o) omy	- ·	7 1100 VO (0 VVaii)		☐ TF12F		Plug-in Transformer (SSF faucet only)
-	-	r Panel Color (Must Specify):	9.) Fauce			☐ TF12H		Hard-wire Transformer (SSF faucet only)
☐ AW	Arctic Wh		☐ WB	Gooseneck Spout, L	,	Other		
LG	White/Wh Light Gre		☐ FPF	Wristblade Handles, Gooseneck Spout, L		Other		
SN	-	e (Almond)		Foot Pedal Valve	,			
☐ SM	Seafoam		☐ SSF	Gooseneck Sensor	• '			
☐ DG	Dolphin C	erey		Shank IR Operated, (12v transformer is r				perties are built-in to inhibit the growth y affect this product. The antimicrobial
			☐ SSFB	Gooseneck Sensor	. ,			protect users or others against bacteria,
				Center Shank IR (Ba Laminar Flow	attery Operated),		•	other disease organisms. Always use ning practices.
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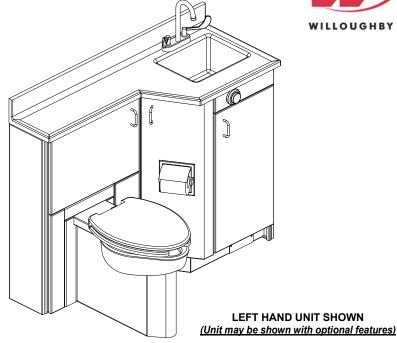
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- 36 7/8" (REF.) -

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 with elevated atm. vacuum breaker, 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-BWSEV-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>

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
- Standard side-mounted bedpan washer concealed behind a separate cabinet door (Elevated atmospheric vacuum breaker included, 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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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

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

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
- Available code variance-specific equipment

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: For HET 1.28 GPF, unit will pass a 2" ball.

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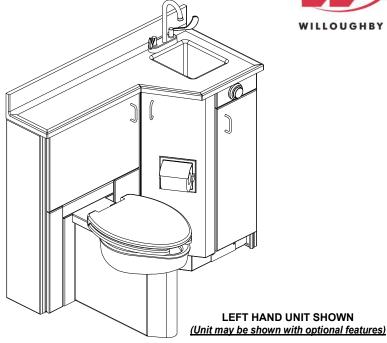
	MODE	L NUMBER AND OF	PTIONS:	
1.) Patient Care Unit Model Number: WH-1900-R (Right hand toilet, Left when the content of the	sink) 🔲 BN	tertop Color (AQCT) (Must Specify): Bone Glacier White Grey Granite	10.) Other Options BWSEV BWSEV-VC	: Bedpan Washer & Elevated Atmospheric Vacuum Breaker Bedpan Washer, Elevated Atmospheric
 2.) Flush Valve GPF (Must Specify): 1.28 GPF HET 1.6 GPF ULF (Standard) 3.5 GPF (3" waste tube required) 	☐ SS ☐ WG ☐ BG ☐ NB	Sandstone White Granite Black Granite Nocturnal Blue	□ BWSCV-VC	Vacuum Breaker & Volume Control Bedpan Washer & Continuous Pressure Vacuum Breaker Bedpan Washer, Continuous Pressure
 3.) Toilet Fixture (Stainless Steel): WO Floor Mounted Toilet/Wall Outlet FO Floor Mounted Toilet/Floor Outlet 	•	Red Coral Sea Green tertop Sink Bowl Color:	DDB Integral (Vacuum Breaker & Volume Control Cabinet Single Valve Dialysis Box Cabinet Dual Valve Dialysis Box obial White Exterior Toilet Finish*(Standard)
4.) Toilet Waste TWC Toilet Waste Coupling, for (WO) of (Must Specify Connection): 3P Connecting to 3" PVC			11.) Code Variance	y Closet Cover (Exam Seat) s:
□ 3P Connecting to 3" PVC □ 3C Connecting to 3" Cast □ 4P Connecting to 4" PVC □ 4C Connecting to 4" Cast □ TWG Toilet Waste Gasket, for (FO) only	Iron	splash Orientation: Back Wall Only (1 Wall) Right Hand Corner (2 Wall) Left Hand Corner (2 Wall) Alcove (3 Wall)	☐ DBDRN Dialys ☐ PTC 'P' Tra ☐ LSS 1/2" x	Thermostatic Mixing Valve sis Box Drain /Trap sp w/Clean-out Plug 3/8" Lavatory Supply Stops Plug-in Transformer (SSF faucet only)
5.) Exterior Polymer Panel Color (Must Sp AW Arctic White WW White/White LG Light Grey	_	, ,	☐ TF12HW 12v	Hard-wire Transformer (SSF faucet only)
☐ SN Sanshade (Almond) ☐ SM Seafoam ☐ DG Dolphin Grey	☐ SSF	Foot Pedal Valve Gooseneck Sensor Spout, Center Shank IR Operated, Laminar Flow (12v transformer is required) Gooseneck Sensor Spout, Center Shank IR (Battery Operated), Laminar Flow	of bacteria that ma properties do not p	perties are built-in to inhibit the growth ly affect this product. The antimicrobial protect users or others against bacteria, other disease organisms. Always use
Approved For Manufacturing By:		Date:		any:
FACTORY PRIOR TO ROUGH-IN TO MAKE CHANGES IN DESIGN AND AND WITHOUT INCURRING OBLIGATION. **PI/EL 01		NOTE: LEFT HAND MODEL S RIGHT HAND IS SYMMETRIC OPPOSITE NOTE: REFERENCE ROUGH-IN TEMPLATES: WALL: S900439 FLOOR: S900440	SHOWN,	
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROL WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN & DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIC 10.191/10.10 10	47*	35 3/4"		4 13/16" — 1 3/4" 7 1/2"

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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 gooseneck wrist-blade faucet, standard bedpan washer with elevated atm. vacuum breaker, 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-BWSEV-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 payt page

(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.)

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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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

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
- Available code variance-specific equipment

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.

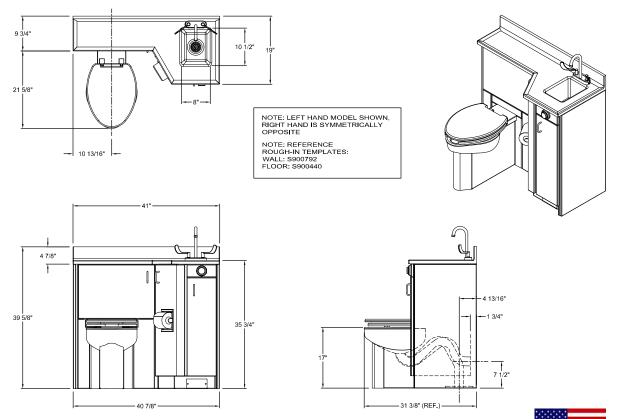
On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: For HET 1.28 GPF, unit will pass a 2" ball.

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MODEL NOMBER AND OF						O .	
1.) Patien	t Care Uni	t Model Number:	6.) Countertop Color (AQCT) (Must Specify):		10.) Other Options:		
☐ WH-1950-R (Right hand toilet, Left sink)		☐ BN	Bone	BWSE		Bedpan Washer & Elevated Atmospheric	
☐ WH-19	950-L	(Left hand toilet, Right sink)	☐ GW	Glacier White			Vacuum Breaker
			☐ GG	Grey Granite	■ BWSE	EV-VC	Bedpan Washer, Elevated Atmospheric
2.) Flush Valve GPF (Must Specify):			□ SS	Sandstone			Vacuum Breaker & Volume Control
☐ 1.28 GPF HET			☐ WG	White Granite	BWS0	CV	Bedpan Washer & Continuous Pressure
☐ 1.6 GPF ULF (Standard)			BG	Black Granite			Vacuum Breaker
☐ 3.5 GPF (3" waste tube required)			■ NB	Nocturnal Blue	BWS0	CV-VC	Bedpan Washer, Continuous Pressure
			RC	Red Coral			Vacuum Breaker & Volume Control
3.) Toilet Fixture (Stainless Steel):			☐ SG	Sea Green	SDB	Integral (Cabinet Single Valve Dialysis Box
■ WO	Floor Mounted Toilet/Wall Outlet				☐ DDB		Cabinet Dual Valve Dialysis Box
☐ FO	Floor Mounted Toilet/Floor Outlet		•	7.) Countertop Sink Bowl Color:		Antimicro	bial White Exterior Toilet Finish*(Standard
			☐ BCM	Countertop-matching (Standard)	☐ BL	Bedpan I	•
4.) Toilet Waste			BBN	Bone	RCC Roll Away Closet Cover (Exam Seat)		
☐ TWC Toilet Waste Coupling, for (WO) only			□ BGW	Glacier White			
(Must Spe	ecify Connection):				,	1.) Code Variances:	
	☐ 3P Connecting to 3" PVC		•	splash Orientation:	☐ TMV Inline Thermostatic Mixing Valve		
	☐ 3C	Connecting to 3" Cast Iron	<u> </u>	Back Wall Only (1 Wall)	_	•	is Box Drain /Trap
	☐ 4P	Connecting to 4" PVC	<u> </u>	Right Hand Corner (2 Wall)	☐ PTC		p w/Clean-out Plug
	☐ 4C Connecting to 4" Cast Iron		<u></u> 3	Left Hand Corner (2 Wall)	LSS		3/8" Lavatory Supply Stops
☐ TWG Toilet Waste Gasket, for (FO) only		4	Alcove (3 Wall)	☐ TF12F		Plug-in Transformer (SSF faucet only)	
5 \ 5 -41	D . l	- DI O-I (M 1 O 15)	0 \ F	4.	☐ TF12I		Hard-wire Transformer (SSF faucet only)
•	•	r Panel Color (Must Specify):	9.) Fauce		Other		
☐ AW			☐ WB	Gooseneck Spout, Laminar Flow,	U Other		
☐ WW	White/Wh			Wristblade Handles, 4CC			
LG Light Grey		,	☐ FPF	Gooseneck Spout, Laminar Flow, Foot Pedal Valve			
☐ SN ☐ SM	Sanshade (Almond) Seafoam		☐ SSF	Gooseneck Sensor Spout, Center			
DG		rov.	<u> </u>	Shank IR Operated, Laminar Flow	*Antimio	robial aras	perties are built-in to inhibit the growth
☐ DG	Dolphin Grey			(12v transformer is required)			y affect this product. The antimicrobial
			□ SSEB	Gooseneck Sensor Spout,			rotect users or others against bacteria,
			_ 331 D	Center Shank IR (Battery Operated),		•	other disease organisms. Always use
				Laminar Flow	-	•	ning practices.
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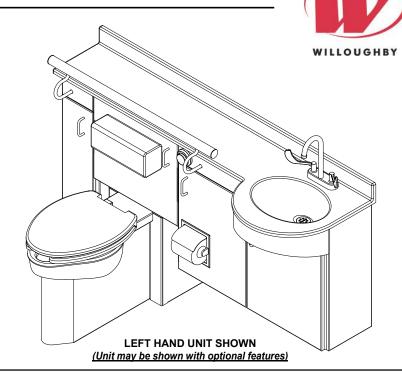
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Willoughby Industries - Healthcare Products

WH-2100 Series Patient Care Unit

NOTE: The WH-2101 series is a modification of the fixtures overall length. These models would have a suffix of MOD37, MOD41, MOD47 and MOD54 with corresponding size in inches to the model number.



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 with elevated vacuum breaker, and antimicrobial white exterior toilet finish*

Use the following Willoughby Model Number: WH-2100-L-1.6-WO-LG-AQCT-BN-BBN-1-WB-BWSEV-DC

Recommended Specifications

Modular Patient Care Unit with decorator cabinet shall be: Willoughby Model No. **WH-21**

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

<u>Unit shall be wall mounted or free standing and shall</u>

<u>include 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 ADA grab bar
- Standard side-mounted bedpan washer concealed behind a separate cabinet door (Elevated atmospheric vacuum breaker included, 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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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

Toilet shall require 35 psi min. flushing pressure and shall mee 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

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
- Available code variance-specific equipment

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: For HET 1.28 GPF, unit will pass a 2" ball.

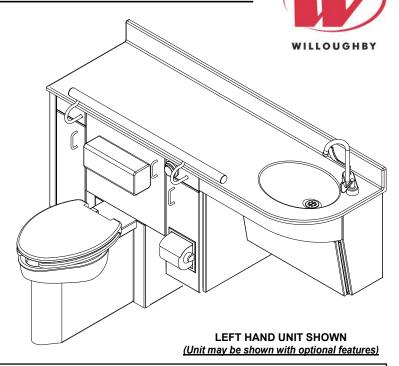
MADE IN THE U.S.A.

1.) Patien	t Care Unit Model Number:	6.) Count	ertop Color (AQCT) (Must Specify):	10.) Other Options:	
☐ WH-21		☐ BN	Bone	BWSEV	Bedpan Washer & Elevated Atmospheric
☐ WH-21		☐ GW	Glacier White		Vacuum Breaker
☐ WH-21	, ,	☐ GG	Grey Granite	■ BWSEV-VC	Bedpan Washer, Elevated Atmospheric
☐ WH-21	01-L (Left hand toilet, Right sink)	☐ SS	Sandstone	D DWOC'	Vacuum Breaker & Volume Control
0 \ === / .	Value ODE (Must One 15)	☐ WG	White Granite	☐ BWSCV	Bedpan Washer & Continuous Pressure
2.) Flush	Valve GPF (Must Specify): □⊑ ⊔⊑⊤	☐ BG ☐ NB	Black Granite Nocturnal Blue	☐ BWSCV-VC	Vacuum Breaker Bedpan Washer, Continuous Pressure
_	PF HET PF ULF (Standard)	☐ RC	Red Coral	□ ₽4/9C4-4C	Vacuum Breaker & Volume Control
_	F (3" waste tube required)	☐ SG	Sea Green	☐ SDB Integral C	Cabinet Single Valve Dialysis Box
	(*			_	Cabinet Dual Valve Dialysis Box
3.) Toilet l	Fixture (Stainless Steel):	7.) Count	ertop Sink Bowl Color:		bial White Exterior Toilet Finish*(Standard)
☐ WO	Floor Mounted Toilet/Wall Outlet	□ BCM	Countertop-matching (Standard)	BL Bedpan L	ugs
☐ FO	Floor Mounted Toilet/Floor Outlet	□ BBN	Bone		
		□ BGW	Glacier White	11.) Code Variances	
4.) Toilet					Thermostatic Mixing Valve
	Toilet Waste Coupling, for (WO) only	•	plash Orientation: Back Wall Only (1 Wall)	_	s Box Drain /Trap
(Must Spe	cify Connection): 3P Connecting to 3" PVC	☐ 1 ☐ 2	Right Hand Corner (2 Wall)		o w/Clean-out Plug 3/8" Lavatory Supply Stops
	☐ 3C Connecting to 3" Cast Iron	□ 2 □ 3	Left Hand Corner (2 Wall)	_	Plug-in Transformer (SSF faucet only)
	4P Connecting to 4" PVC	□ 3	Alcove (3 Wall)		Hard-wire Transformer (SSF faucet only)
	☐ 4C Connecting to 4" Cast Iron	_ .		Other	
☐ TWG	Toilet Waste Gasket, for (FO) only	9.) Fauce	t:	Other	
		u WB	Gooseneck Spout, Laminar Flow,		
	or Polymer Panel Color (Must Specify):		Wristblade Handles, 4CC		
☐ AW	Arctic White	☐ SSF	Gooseneck Sensor Spout, Center		
☐ WW	White/White		Shank IR Operated, Laminar Flow		
LG LG	Light Grey	D 6055	(12v transformer is required)	********	and an are built to take the total
☐ SN	Sanshade (Almond)	☐ 22FB	Gooseneck Sensor Spout,		perties are built-in to inhibit the growth
☐ SM ☐ DG	Seafoam Dolphin Grey		Center Shank IR (Battery Operated), Laminar Flow	-	y affect this product. The antimicrobial rotect users or others against bacteria,
	Dolphiin Grey		Lamina i low		other disease organisms. Always use
				viruses, gerins, or c	
				good hygienic clear	ning practices.
				good hygienic clea	
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ROUGH-IN ISIGN AND IN INC.	hickness:		Type:	Compa	MOUNTING RECEPTOR SET SCREWS A GRAB BAR ASSEMBLY
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ROUGH-IN ISIGN AND IN INC.	hickness:	Wall	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE	Compa	MOUNTING RECEPTOR SET SCREWS A GRAB BAR ASSEMBLY
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ROUGH-IN ISIGN AND IN INC.	hickness:		NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE ROUGH-IN TEMPLATES: WALL: \$301711	Compa	MOUNTING RECEPTOR SET SCREWS A GRAB BAR ASSEMBLY
ROUGH-IN ISIGN AND IN INC.	hickness:		NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE ROUGH-IN TEMPLATES: WALL: \$301711	Compa	MOUNTING RECEPTOR SET SCREWS A GRAB BAR ASSEMBLY
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ROUGH-IN ISIGN AND IN INC.	hickness:	Wall -	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE ROUGHIN TEMPLATES: WALL: S901711 FLOOR: S900981	Compa	MOUNTING RECEPTOR SET SCREWS A GRAB BAR ASSEMBLY
ROUGH-IN ISIGN AND IN INC.	hickness:	_ Wall -	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE ROUGHIN TEMPLATES: WALL: S901711 FLOOR: S900981	Compa	MOUNTING RECEPTOR SET SCREWS A GRAB BAR ASSEMBLY
ROUGH-IN ISIGN AND IN INC.	hickness:	_ Wall -	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SHOWN, RIGHT HAND IS SHOWN THAND IS NOTE: REFERENCE ROUGH-IN TEMPLATES: WALL: \$900961 3 3/4"	Compa	MOUNTING RECEPTOR SET SCREWS A GRAB BAR ASSEMBLY
ROUGH-IN ISIGN AND IN INC.	hickness:	_ Wall -	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE ROUGHIN TEMPLATES: WALL: S901711 FLOOR: S900981	Compa	MOUNTING RECEPTOR SET SCREWS A GRAB BAR ASSEMBLY
ROUGH-IN ISIGN AND IN INC.	nickness:	_ Wall -	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SHOWN, RIGHT HAND IS SHOWN THAND IS NOTE: REFERENCE ROUGH-IN TEMPLATES: WALL: \$900961 3 3/4"	Compa	MOUNTING RECEPTOR SET SCREWS A GRAB BAR ASSEMBLY
ROUGH-IN ISIGN AND IN INC.	hickness:	_ Wall -	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SHOWN, RIGHT HAND IS SHOWN THAND IS NOTE: REFERENCE ROUGH-IN TEMPLATES: WALL: \$900961 3 3/4"	Compa	MOUNTING RECEPTOR SET SCREWS A GRAB BAR ASSEMBLY
ROUGH-IN ISIGN AND IN INC.	hickness:	_ Wall -	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SHOWN, RIGHT HAND IS SHOWN THAND IS NOTE: REFERENCE ROUGH-IN TEMPLATES: WALL: \$900961 3 3/4"	Compa	MOUNTING RECEPTOR SET SCREWS A GRAB BAR ASSEMBLY 19"
ROUGH-IN ISIGN AND IN INC.	hickness:	_ Wall -	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE ROUGH-IN TEMPLATES: WALL: S901711 FLOOR: S900961	Compa	MOUNTING RECEPTOR SET SCREWS A GRAB BAR ASSEMBLY 19"
OUGH-IN AND HIGATION.	hickness:	Wall -	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE ROUGH-IN TEMPLATES: WALL: S901711 FLOOR: S900961	Compa	MOUNTING RECEPTOR SET SCREWS A GRAB BAR ASSEMBLY 19" 4 13/16"

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Willoughby Industries - Healthcare Products

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 with elevated vacuum breaker, and antimicrobial white exterior toilet finish*

Use the following Willoughby Model Number: WH-2400-L-1.6-WO-LG-AQCT-BN-BBN-1-WB-BWSEV-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

© Rev. 6/2017

- Standard side-mounted bedpan washer concealed behind a separate cabinet door (Elevated atmospheric vacuum breaker included, 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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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

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

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
- Available code variance-specific equipment

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: For HET 1.28 GPF, unit will pass a 2" ball.

**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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H24-11

1.) Patien	t Care Unit Model Num	ber:	6.) Count	ertop Color (AQCT) (Must Specify):	10.) Other Option	s:
☐ WH-24	` `	toilet, Left sink)	☐ BN	Bone	■ BWSEV	Bedpan Washer & Elevated Atmospheric
☐ WH-24	tuu-L (Leit nand t	oilet, Right sink)	☐ GW ☐ GG	Glacier White Grey Granite	■ BWSEV-VC	Vacuum Breaker Bedpan Washer, Elevated Atmospheric
2.) Flush	Valve GPF (Must Speci	fy):	☐ SS	Sandstone	_	Vacuum Breaker & Volume Control
☐ 1.28 G			☐ WG	White Granite	■ BWSCV	Bedpan Washer & Continuous Pressure
_	PF ULF (Standard)	.IV	☐ BG	Black Granite	D DW00VVV0	Vacuum Breaker
☐ 3.5 GF	PF (3" waste tube require	a)	☐ NB ☐ RC	Nocturnal Blue Red Coral	■ BWSCV-VC	Bedpan Washer, Continuous Pressure Vacuum Breaker & Volume Control
3.) Toilet	Fixture (Stainless Steel):	☐ KC	Sea Green	☐ SDB Integra	I Cabinet Single Valve Dialysis Box
ú wo	Floor Mounted Toilet/W	•	_		DDB Integra	l Cabinet Dual Valve Dialysis Box
☐ FO	Floor Mounted Toilet/Fl	oor Outlet	•	ertop Sink Bowl Color:		crobial White Exterior Toilet Finish*(Standard)
4.) Toilet	Wasto		☐ BCM ☐ BBN	Countertop-matching (Standard) Bone	☐ BL Bedpar	n Lugs
,	Toilet Waste Coupling,	for (WO) only	☐ BGW	Glacier White	11.) Code Variano	es:
	ecify Connection):	. , ,	_		☐ TMV Inline	e Thermostatic Mixing Valve
	☐ 3P Connecting		•	plash Orientation:		ysis Box Drain /Trap
	☐ 3C Connecting ☐ 4P Connecting	to 3" Cast Iron	☐ 1 ☐ 2	Back Wall Only (1 Wall) (Standard) Right Hand Corner (2 Wall)	_	rap w/Clean-out Plug x 3/8" Lavatory Supply Stops
		to 4" Cast Iron	□ 2 □ 3	Left Hand Corner (2 Wall)	_	2v Plug-in Transformer (SSF faucet only)
☐ TWG	Toilet Waste Gasket, fo		4	Alcove (3 Wall)	_	2v Hard-wire Transformer (SSF faucet only)
-	or Polymer Panel Color	(Must Specify):	9.) Fauce		Other	
☐ AW ☐ WW	Arctic White White/White		☐ WB	Gooseneck Spout, Laminar Flow, Wristblade Handles, 4CC		
LG	Light Grey		☐ SSF	Gooseneck Sensor Spout, Center		
SN	Sanshade (Almond)			Shank IR Operated, Laminar Flow		
☐ SM	Seafoam			(12v transformer is required)	** *************	
☐ DG	Dolphin Grey		☐ SSEB	Gooseneck Sensor Spout, Center Shank IR (Battery Operated),	-	operties are built-in to inhibit the growth nay affect this product. The antimicrobial
_				Laminar Flow		protect users or others against bacteria,
_				Laminaminow		
_				Laminar i low	viruses, germs, o	r other disease organisms. Always use
					• •	r other disease organisms. Always use
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Approving Hills Approving Hill	hickness:	ng By:	Wall - 61 1/2" -	Type:	viruses, germs, o good hygienic cle Com Comp	pany: MOUNTING RECEPTOR WITH SET SCREWS ADA GRAB BAR
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TO ROUGH-IN DESIGN AND ING OBLIGATION.	hickness:		Wall of the state	Type:	viruses, germs, o good hygienic cle Com Comp	mounting receptor with Set Screws ADA GRAB BAR ASSEMBLY 20 1/4* (GRAB BAR)
TO ROUGH-IN DESIGN AND ING OBLIGATION.	hickness:		Wall of the state	Type:	viruses, germs, o good hygienic cle Com Comp	pany: MOUNTING RECEPTOR WITH SET SCREWS ADA GRAB BAR ASSEMBLY
WITH FACTORY PRIOR TO ROUGH-IN REGHT TO MAKE CHANGES IN DESIGN AND NOTICE AND WITHOUT INCURRING OBLIGATION.	19 1/2° 41 5/16°		Wall of the state	Type:	viruses, germs, o good hygienic cle Com Comp	mounting receptor with Set Screws ADA GRAB BAR ASSEMBLY 20 1/4* (GRAB BAR)
WITH FACTORY PRIOR TO ROUGH-IN REGHT TO MAKE CHANGES IN DESIGN AND NOTICE AND WITHOUT INCURRING OBLIGATION.	19 1/2° 41 5/16°		Wall 61 1/2" 61 1/2" NO SHE SYP NO RO WA FLC	Type:	viruses, germs, o good hygienic cle Com Comp	mounting receptor with Set Screws ADA GRAB BAR ASSEMBLY 20 1/4* (GRAB BAR)
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WITH FACTORY PRIOR TO ROUGH-IN REGHT TO MAKE CHANGES IN DESIGN AND NOTICE AND WITHOUT INCURRING OBLIGATION.	19 1/2° 41 5/16°		Wall 61 1/2" 61 1/2" NO SHE SYP NO RO WA FLC	Type:	viruses, germs, o good hygienic cle Com N COMPLIANCE //ITH A.D.A. 2010	mounting receptor with Set Screws ADA GRAB BAR ASSEMBLY 20 1/4* (GRAB BAR)
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FACTORY PRIOR TO ROUGH-IN MAKE CHANGES IN DESIGN AND AND WITHOUT INCURRING OBLIGATION.	19 1/2° 41 5/16°		Wall 61 1/2" 61 1/2" 701 NOTE OF THE OF	Type:	viruses, germs, o good hygienic cle Com N COMPLIANCE WITH A.D.A. 2010	or other disease organisms. Always use eaning practices. pany: MOUNTING RECEPTOR WITH SET SCREWS ADA GRAB BAR ASSEMBLY 20 1/4* (GRAB BAR)

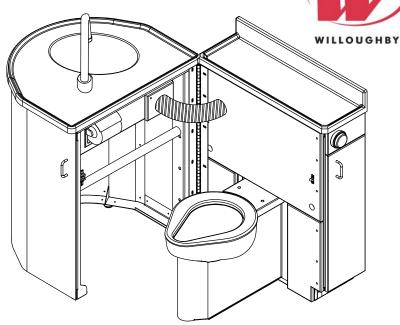
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Willoughby Industries - Healthcare Products

WH-2600 Patient Care Unit



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 Patient Care Unit with left hinge/left lavatory, wall outlet with light grey cabinet, bone colored countertop, bone colored bowl, wristblade faucet, and antimicrobial white exterior toilet finish*

Use the following Willoughby Model Number: WH-2600-L-1.6-WO-LG-AQCT-BN-BBN-WB-DC

Recommended Specifications

Modular Patient Care Unit with decorator cabinet shall be: Willoughby Model No. **WH-2600**(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 within the cabinet (Integral bedpan washer and dialysis box are available options.)

Toilet:

Standard siphon jet type toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim w/ positive afterfill
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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

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
- Available code variance-specific equipment

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: For HET 1.28 GPF, unit will pass a 2" ball.

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MODEL NUMBER AND OPTIONS:							
1.) Patien	t Care Unit	Model Number:	6.) Co	Intertop Color (AQCT) (Must Specify):	10.) Other	Options:	
☐ WH-26		(Center toilet, Right hinge/sink)	-	Bone	☐ BWSEV	•	Bedpan Washer & Elevated Atmospheric
☐ WH-26	600-L	(Center toilet, Left hinge/sink)	☐ GW				Vacuum Breaker
0 \ Fluck	Value CDE	(Marrat Connaite)	☐ GG	•	☐ BWSEV	-VC	Bedpan Washer, Elevated Atmospheric
1.28 G		(Must Specify):	☐ WG	Sandstone White Granite	☐ BWSCV	/	Vacuum Breaker & Volume Control Bedpan Washer & Continuous Pressure
_	PF ULF (Sta	ndard)	☐ BG	Black Granite			Vacuum Breaker
		tube required)	☐ NB	Nocturnal Blue	■ BWSCV	/-VC	Bedpan Washer, Continuous Pressure
			☐ RC	Red Coral			Vacuum Breaker & Volume Control
		ainless Steel):	☐ SG	Sea Green	SDB	•	abinet Single Valve Dialysis Box
☐ WO ☐ FO		nted Toilet/Wall Outlet nted Toilet/Floor Outlet	7) Co.	intertop Sink Bowl Color:	☐ DDB ☐ DC	U	abinet Dual Valve Dialysis Box pial White Exterior Toilet Finish*
	1 loor wlou	nted foller fool Gutlet	☐ BC		BL	Bedpan Lu	
4.) Toilet	Waste		ВВ	,	_	•	
TWC_	_ Toilet Was	te Coupling, for (SWO) only	☐ BG	W Glacier White	11.) Code	Variances:	:
(Must Spe	cify Connec	•			☐ TMV		nermostatic Mixing Valve
	☐ 3P	Connecting to 3" PVC	•	ksplash Orientation:	DBDRN	•	Box Drain /Trap
	☐ 3C ☐ 4P	Connecting to 3" Cast Iron Connecting to 4" PVC	□ 1□ 2	Back Wall Only (1 Wall) (Standard) Right Hand Corner (2 Wall)	☐ PTC ☐ LSS	-	w/Clean-out Plug /8" Lavatory Supply Stops
	☐ 4C	Connecting to 4" Cast Iron	☐ 3	Left Hand Corner (2 Wall)	TF12PI		Plug-in Transformer (SSF faucet only)
☐ TWG		te Gasket, for (SFO) only	4	Alcove (3 Wall)	☐ TF12H\		lard-wire Transformer (SSF faucet only)
					Other		
	-	Panel Color (Must Specify):	9.) Fau		Other		
☐ AW	Arctic Whi		☐ WB	Gooseneck Spout, Laminar Flow,			
☐ WW ☐ LG	White/Whi Light Grey		☐ FPF	Wristblade Handles, 4CC Gooseneck Spout, Laminar Flow,			
☐ SN	Sanshade		_ 11F1	Foot Pedal Valve			
☐ SM	Seafoam	(*	☐ SSI				
☐ DG	Dolphin G	rey		Shank IR Operated, Laminar Flow	*Antimicro	obial prope	erties are built-in to inhibit the growth
				(12v transformer is required)		•	affect this product. The antimicrobial
			☐ SSI	FB Gooseneck Sensor Spout,		-	otect users or others against bacteria,
				Center Shank IR (Battery Operated), Laminar Flow	. •	•	ther disease organisms. Always use ing practices.
Approx	ved For M	lanufacturing By:		Date:			ny:
Wall T	hickness:			Type:	_	Compa	.,
		-		30 1/16"———			
				9 7/8"			
GH-IN ND ATION.		15		34 1/2"			
TO ROUG		39 1/4	(
RIOR TO		11 1/2"					
TORY P		24 3/8"		15'			
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.				T 4 1/A*			ſ
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			1, 1	 	II L	1 1	7 1/2"

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Willoughby Industries - Healthcare Products

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-AQCT-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)

(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 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" 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:

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

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

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
- Available code variance-specific equipment

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: For HET 1.28 GPF, unit will pass a 2" ball.

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1.) Patient Care Unit Model Numb	er:	6.) Counte	ertop Color (AQCT) (Must Specify):	10.) Other Option	is:
☐ WH-2800-R (Right hand t	toilet, Left sink)	□ BN	Bone	BWSEV	Bedpan Washer & Elevated Atmospheric
☐ WH-2800-L (Left hand to	ilet, Right sink)	☐ GW	Glacier White		Vacuum Breaker
		☐ GG	Grey Granite	■ BWSEV-VC	Bedpan Washer, Elevated Atmospheric
2.) Flush Valve GPF (Must Specify	y):	☐ SS	Sandstone	_	Vacuum Breaker & Volume Control
1.28 GPF HET		☐ WG	White Granite	■ BWSCV	Bedpan Washer & Continuous Pressure
1.6 GPF ULF (Standard)	I)	☐ BG	Black Granite	¬ ¬	Vacuum Breaker
☐ 3.5 GPF (3" waste tube required	1)	☐ NB	Nocturnal Blue	■ BWSCV-VC	Bedpan Washer, Continuous Pressure
2 \ Tailet Finture (Otainless Otas)		☐ RC	Red Coral	CDD Interna	Vacuum Breaker & Volume Control
3.) Toilet Fixture (Stainless Steel)WO Floor Mounted Toilet/Wa		☐ SG	Sea Green		ıl Cabinet Single Valve Dialysis Box ıl Cabinet Dual Valve Dialysis Box
FO Floor Mounted Toilet/Flo		7) Counto	ertop Sink Bowl Color:	_ •	crobial White Exterior Toilet Finish*(Standard)
1 1001 Modified Tollet/1 10	or Outlet		Countertop-matching (Standard)	☐ BL Bedpar	,
4.) Toilet Waste		☐ BBN	Bone (Standard)		vay Closet Cover (Exam Seat)
☐ TWC Toilet Waste Coupling, for	or (WO) only	_	Glacier White		
(Must Specify Connection):	(- /)			11.) Code Variano	ces:
☐ 3P Connecting to	o 3" PVC	8.) Backs	olash Orientation:	TMV Inline	e Thermostatic Mixing Valve
☐ 3C Connecting to	o 3" Cast Iron	1	Back Wall Only (1 Wall) (Standard)	□ DBDRN Dialy	ysis Box Drain /Trap
4P Connecting to	o 4" PVC	2	Right Hand Corner (2 Wall)	☐ PTC 'P' T	rap w/Clean-out Plug
4C Connecting to	o 4" Cast Iron	□ 3	Left Hand Corner (2 Wall)	☐ LSS 1/2"	x 3/8" Lavatory Supply Stops
☐ TWG Toilet Waste Gasket, for	(FO) only	4	Alcove (3 Wall)	☐ TF12PI 12	2v Plug-in Transformer (SSF faucet only)
				_	2v Hard-wire Transformer (SSF faucet only)
5.) Exterior Polymer Panel Color	(Must Specify):	9.) Faucet		Other	
AW Arctic White		☐ WB	Gooseneck Spout, Laminar Flow,	Other	
WW White/White		_ ====	Wristblade Handles, 4CC		
LG Light Grey		☐ FPF	Gooseneck Spout, Laminar Flow,		
SN Sanshade (Almond)		□ 005	Foot Pedal Valve		
SM Seafoam		☐ SSF	Gooseneck Sensor Spout, Center	*Antimiorobiol nu	anautica are built in to inhihit the arough
☐ DG Dolphin Grey			Shank IR Operated, Laminar Flow (12v transformer is required)	•	operties are built-in to inhibit the growth nay affect this product. The antimicrobial
		□ SSEB	Gooseneck Sensor Spout,		t protect users or others against bacteria,
		_ 001 B	Center Shank IR (Battery Operated),		or other disease organisms. Always use
			Laminar Flow	good hygienic cle	eaning practices.
Approved For Manufacturin	ng By:		Date:	Com	pany:
Approved For Manufacturin	ng By:			Com	pany:
Approved For Manufacturin	ng By:		Date:	Com	pany:
Approved For Manufacturin	ng By:	_ Wall T	ype:	Com	pany:
Approved For Manufacturin		_ Wall T		Com	pany:
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Wall Thickness:		_ Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: S900722	Com	pany:
Wall Thickness:		_ Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: S900722 ROUGH-IN TEMPLATES: WALL: S900516	Com	pany:
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Wall Thickness: Thickness		_ Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: \$900722 ROUGH-IN TEMPLATES: WALL: \$900516 FLOOR: \$900517	Com_	pany:
Wall Thickness: Thickness		- Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: \$900722 ROUGH-IN TEMPLATES: WALL: \$900516 FLOOR: \$900517	Com	pany:
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Wall Thickness: Validation Validation		- Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: \$900722 ROUGH-IN TEMPLATES: WALL: \$900516 FLOOR: \$900517	Com	pany:
Wall Thickness: Validation Validation		- Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: \$900722 ROUGH-IN TEMPLATES: WALL: \$900516 FLOOR: \$900517	Com	pany:
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Wall Thickness: Validation Validation		- Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: \$900722 ROUGH-IN TEMPLATES: WALL: \$900516 FLOOR: \$900517	Com	pany:
Wall Thickness: Validation Validation	28 3/	- Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: \$900722 ROUGH-IN TEMPLATES: WALL: \$900516 FLOOR: \$900517	Com	pany:
Wall Thickness: Validation Validation	28 3/	- Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: \$900722 ROUGH-IN TEMPLATES: WALL: \$900516 FLOOR: \$900517	Com	
Wall Thickness: Validation Validation	28 3/	- Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: \$900722 ROUGH-IN TEMPLATES: WALL: \$900516 FLOOR: \$900517	Com	
Wall Thickness: Validation Validation	28 3/	- Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: \$900722 ROUGH-IN TEMPLATES: WALL: \$900516 FLOOR: \$900517	Com	
Wall Thickness: Validation Validation	28 3/	- Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: \$900722 ROUGH-IN TEMPLATES: WALL: \$900516 FLOOR: \$900517	Com	
Wall Thickness: Validation Validation	28 3/	- Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: \$900722 ROUGH-IN TEMPLATES: WALL: \$900516 FLOOR: \$900517	Com	
Wall Thickness: Validation Validation	28 3/	- Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: \$900722 ROUGH-IN TEMPLATES: WALL: \$900516 FLOOR: \$900517	Com	
Wall Thickness: Thickness	28 3/	- Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: \$900722 ROUGH-IN TEMPLATES: WALL: \$900516 FLOOR: \$900517	Com	
Wall Thickness: Thickness	28 3/	- Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: \$900722 ROUGH-IN TEMPLATES: WALL: \$900516 FLOOR: \$900517	Com	
Wall Thickness: Thickness	28 3/	- Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: S900722 ROUGH-IN TEMPLATES: WALL: S900516 FLOOR: S900517	Com	
Wall Thickness: Thickness	28 3/	- Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: S900722 ROUGH-IN TEMPLATES: WALL: S900516 FLOOR: S900517		
Wall Thickness: Thickness	28 3/	- Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: S900722 ROUGH-IN TEMPLATES: WALL: S900516 FLOOR: S900517		3/4"
Wall Thickness: Thickness	28 3/	- Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: S900722 ROUGH-IN TEMPLATES: WALL: S800516 FLOOR: S900517		8 1/2"
Mall Thickness:	28 3/	- Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: S900722 ROUGH-IN TEMPLATES: WALL: S800516 FLOOR: S900517		3/4"
Wall Thickness: Validation Validation	28 3/	- Wall T	NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE NOTE: REFERENCE: S900722 ROUGH-IN TEMPLATES: WALL: S800516 FLOOR: S900517		8 1/2"

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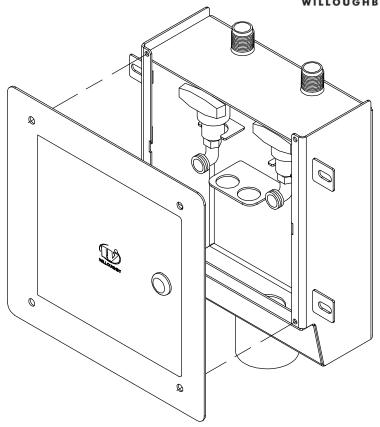
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Willoughby Industries - Commercial Ware



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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H25-1

1.) Base Model Number:

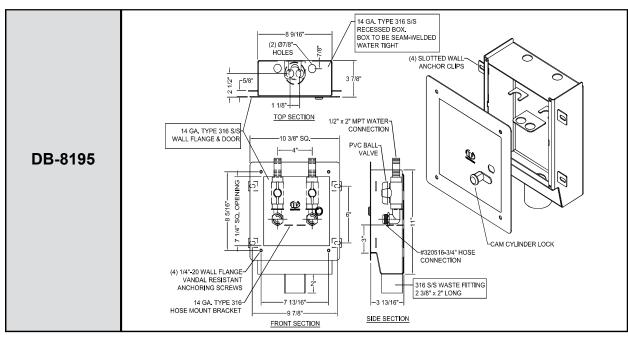
□ DB-8190 Two-valve Supply Dialysis Box w/ Wall Flange, Less Door
 □ DB-8191 One-valve Supply Dialysis Box w/ Wall Flange, Less Door
 □ DB-8195 Two-valve Supply Dialysis Box w/ Wall Flange and Locking Door
 □ DB-8196 One-valve Supply Dialysis Box w/ Wall Flange and Locking Door

2.) Other Options:

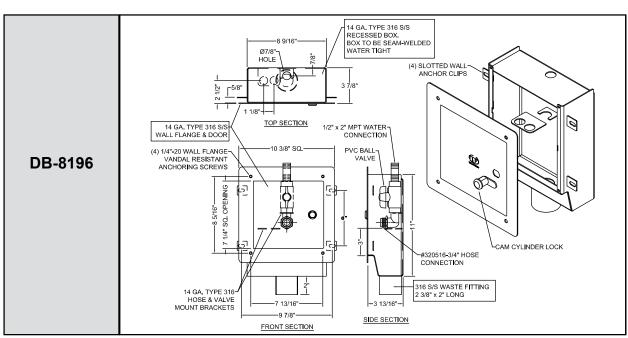
☐ SSVF Stainless Steel Ball Valves and Fittings

□ Other□ Other

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



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Willoughby Industries - Healthcare Products

WICS-2222 Infection Control Hand Washing Sink A.D.A. Compliant



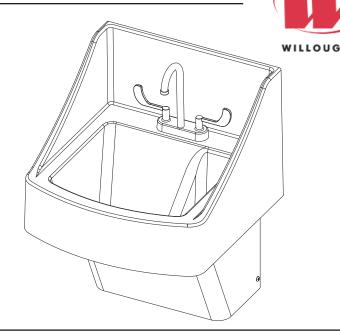


Wall-hung Infection Control Hand Washing Sink shall accommodate one user and is designed to minimize spread of infectious disease. ADA compliant solid surface sink shall be: Willoughby Model No. **WICS-2222**

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 and mineral fillers. 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



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

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 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

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 in-wall carriers supplied by others. Proper backing for surface-mounted sinks provided by others.

Optional Features:

<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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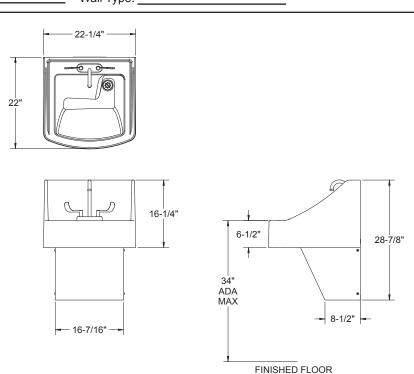
1.) Lavato	ory Model:	4.) Lavat	ory Deck Colo	ers:
WICS-	2222 Infection Control Hand Washing Sink	☐ BN	Bone	
	•	☐ GW	Glacier White	e
2.) Fauce	** *.	☐ GG	Grey Granite	
☐ WB2	1.5 gpm Laminar Flow, 4CC, Rigid 3-1/2" Gooseneck	□ SS	Sandstone	
	Wristblade Faucet (Standard)	■ WG	White Granit	e
□ SSF	Gooseneck Sensor Spout, Center Shank IR Operated,	□ BG	Black Granite	e
	Laminar Flow (12v transformer is required)	■ NB	Nocturnal Blu	ue
☐ SSFB	Gooseneck Sensor Spout, Center Shank IR (Battery Operated),	☐ RC	Red Coral	
	Laminar Flow	□ SG	Sea Green	
■ NV	No Valve, No Faucet/Spout- Faucet by Others			
	(Select Hole Punching if needed)	5.) Optio	ns:	
		■ TMV	Ir	lline Thermostatic Mixing Valve
3.) Hole D	Orilling Selection (Faucet by Others):	■ AMT	Α	ntimicrobial Trap*
NOTE	: If hole drilling is required, please submit faucet for approval	☐ TF12F	인 1:	2v Plug-in Transformer (SSF faucet only)
☐ 4CC	4" Centerset, Ø1" Holes (Specify 2 or 3 holes:)	☐ TF12H	HW 1:	2v Hard-wire Transformer (SSF faucet only)
☐ 8CC	8" Centerset, Ø1" Holes (Specify 2 or 3 holes:)			
☐ 1CC	Center Shank, (1) Ø1" Hole			
□ 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.

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

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WODF-1 Series Outdoor Drinking Fountain



Recommended Specifications

Willoughby Model WODF-1 outdoor drinking fountain is a single-level, vandal resistant drinking fountain with Type 304 stainless steel 10" Schedule-10 main column and 7 GA. flange.

Fountain shall have a high-polished, 18 GA. stainless steel bowl with anti-rotation, anti-squirt, solid stainless steel bubbler. Bubbler shall be activated by a pedestalmounted solid stainless steel push button assembly, which controls a lead-free, self-closing valve.

Push button shall require less than 5 lbs. of force to operate. Push button shall be adjustable to ensure adequate flow without being wasteful. WODF-1 fountain shall be lead-free, adhering to ANSI/NSF 61, Section 9 requirements.

Fountain is available in an ADA configuration that shall meet American Disabilities Act of 2010 (ADA) compliance requirements; see option (HC) on the following page.

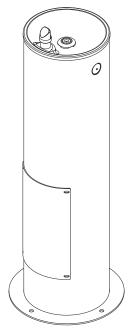
Standard Features

- * Heavy duty Type 304 stainless steel 10" Schedule-10 main column and 7 GA. flange
- * Optional marine-grade Type 316 stainless steel body for installations near salt water
- * High polished stainless steel bowl
- * Solid stainless steel, anti-rotation bubbler
- * Serviceable mesh strainer on inlet water supply
- * Heavy-duty main column access panel
- * Resistant to sunlight, heat and vandalism
- * Stainless steel adjustable push button

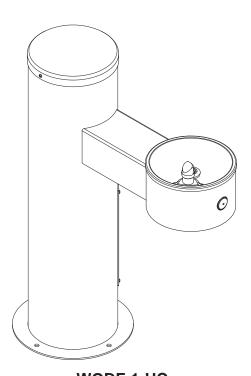
To specify fixture and color, use the Model Number and Options Guide.

Example: To specify a WODF-1 outdoor drinking fountain in Silver color

Use the following Willoughby Model Number: WODF-1-SL



WODF-1

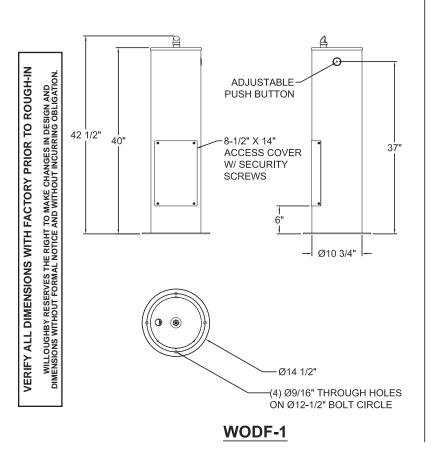


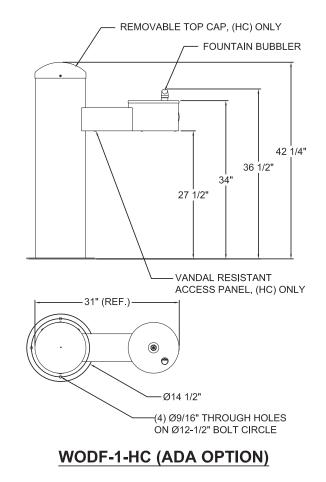
WODF-1-HC



1.) Outdoor Drinking Fountain Type: 3.) Colors (
■ WODF-1	Single-bowl Outdoor Drinking Fountain	☐ SL	Silver	
		🔲 G	Green	
2.) Options:		☐ R	Red	
☐ HC	Adult ADA Compliant Single-bowl Fountain	□ BL	Blue	
316-1	316 Stainless Steel Body, Single		Orange	
CAR-1	Surface Carrier, Single		Violet	
■ SOV	Shut Off Valve	☐ Y	Yellow	
☐ SCV	Seasonal Bowl Cover (1)	BR	Brown	
☐ FRV-1	Freeze Resistant Valve System, Single	BK	Black	
□ JF	Jug Filler	BE	Beige	
☐ HBE	Hose Bibb Exposed	□ W	White	
HBLD	Recessed Hose Bibb w/ Lock Door			
HBLD-SS	Recessed Stainless Steel Hose Bibb w/ Lock Door			
□ FW	Foot Wash			

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



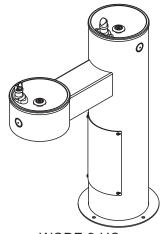


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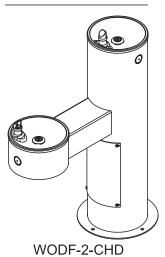


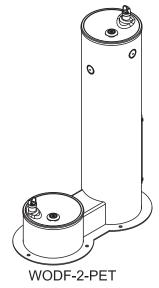
WODF-2 Series Outdoor Drinking Fountain





WODF-2-HC





Recommended Specifications

Willoughby Model WODF-2 outdoor drinking fountain is a dual-level, vandal resistant drinking fountain with Type 304 stainless steel 10" Schedule-10 main column and 7 GA. flange.

Fountain shall have high-polished, 18 GA. stainless steel bowls with anti-rotation, anti-squirt, solid stainless steel bubblers. Bubblers shall be activated by pedestal mounted solid stainless steel push button assemblies, which control lead-free, self-closing valves.

Push buttons shall require less than 5 lbs. of force to operate. Push buttons shall be adjustable to ensure adequate flow without being wasteful. WODF-2 fountain shall be lead-free, adhering to ANSI/NSF 61, Section 9, ANSI A117.1. Fixtures in (HC) and (CHD) configurations shall meet American Disabilities Act of 2010 (ADA) compliance requirements.

Standard Features

- * Adult ADA and Child (JR.) ADA compliant fixture configurations available
- * Heavy duty Type 304 stainless steel 10" Schedule-10 main column and 7 GA. flange
- * Optional marine-grade Type 316 stainless steel body for installations near salt water
- * High polished stainless steel bowls
- * Solid stainless steel, anti-rotation bubblers
- * Serviceable mesh strainer on inlet water supply
- * Heavy-duty main column access panel
- * Resistant to sunlight, heat and vandalism
- * Stainless steel adjustable push buttons

To specify fixture and color, use the Model Number and Options Guide.

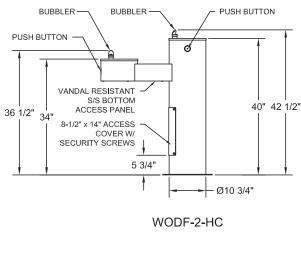
Example: To specify a WODF-2 outdoor drinking fountain with Child-height (JR. ADA) bowl, in Green color

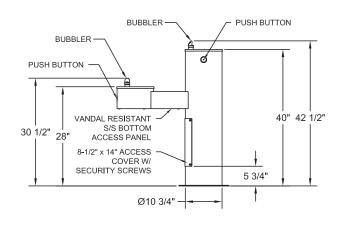
Use the following Willoughby Model Number: WODF-2-CHD-G

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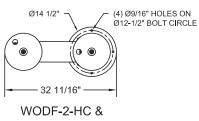
1.)	Outdoor Drink	king Fountain Type:	4.)	Colors	(select one):
	WODF-2	Two-bowl Outdoor Drinking Fountain		SL	Silver
				G	Green
2.)	Bowl Height (other than main column bowl):		R	Red
	HC	Adult ADA Compliant		BL	Blue
	CHD	Child (JR. ADA Compliant)		0	Orange
	PET	Pet		V	Violet
				Υ	Yellow
3.)	Options:			BR	Brown
	316-2	316 Stainless Steel Body, Double		BK	Black
	CAR-1	Surface Carrier, Single		BE	Beige
	CAR-2	Surface Carrier, Double		W	White
	SOV	Shut Off Valve			
	SCV	Seasonal Bowl Covers (2)			
	FRV-2	Freeze Resistant Valve System, Double			
	JF	Jug Filler			
	HBE	Hose Bibb Exposed			
	HBLD	Recessed Hose Bibb w/ Lock Door			
	HBLD-SS	Recessed Stainless Steel Hose Bibb w/ Lock Door			

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

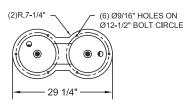




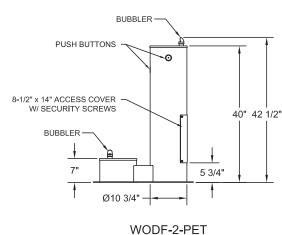
WODF-2-CHD



WODF-2-CHD



WODF-2-PET





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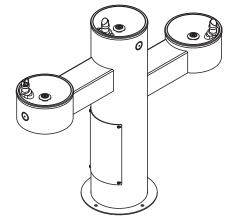
FW

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. Foot Wash

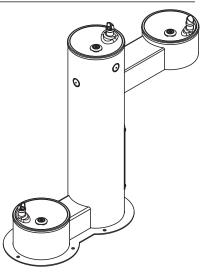
WODF-3 Series Outdoor Drinking Fountain

W

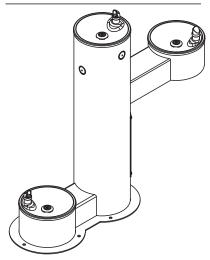
WILLOUGHBY



WODF-3-HC-CHD



WODF-3-HC-PET



WODF-3-CHD-PET

Recommended Specifications

Willoughby Model **WODF-3** outdoor drinking fountain is a triple-level, vandal resistant drinking fountain with Type 304 stainless steel 10" Schedule-10 main column and 7 GA. flange.

Fountain shall have high-polished, 18 GA. stainless steel bowls with anti-rotation, anti-squirt, solid stainless steel bubblers. Bubblers shall be activated by pedestal mounted solid stainless steel push button assemblies, which control lead-free, self-closing valves.

Push buttons shall require less than 5 lbs. of force to operate. Push buttons shall be adjustable to ensure adequate flow without being wasteful. **WODF-3** fountain shall be lead-free, adhering to ANSI/NSF 61, Section 9, ANSIA117.1. Fixtures in (HC) and (CHD) configurations shall meet American Disabilities Act of 2010 (ADA) compliance requirements.

Standard Features

- * Adult ADA and Child (JR.) ADA compliant fixture configurations available
- * Heavy duty Type 304 stainless steel 10" Schedule-10 main column and 7 GA. flange
- * Optional marine-grade Type 316 stainless steel body for installations near salt water
- * High polished stainless steel bowls
- * Solid stainless steel, anti-rotation bubblers
- * Serviceable mesh strainer on inlet water supply
- * Heavy-duty main column access panel
- * Resistant to sunlight, heat and vandalism
- * Stainless steel adjustable push buttons

To specify fixture and color, use the Model Number and Options Guide.

Example: To specify a WODF-3 outdoor drinking fountain with Adult ADA and Child-height (JR. ADA) bowls, in Red color

Use the following Willoughby Model Number: WODF-3-HC-CHD-R

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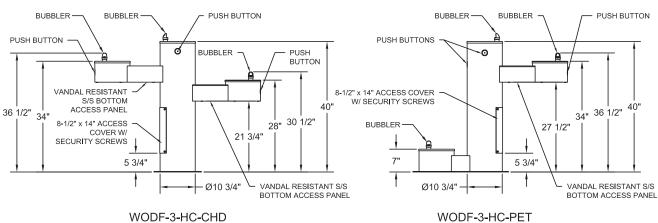
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1.) Outdoor Drinl	4.) Colors	s (select one):	
■ WODF-3	Three-bowl Outdoor Drinking Fountain	☐ SL	Silver
		🔲 G	Green
2.) Bowl Height (other than main column bowl, select two):	☐ R	Red
☐ HC	Adult ADA Compliant	BL	Blue
CHD	Child (JR. ADA Compliant)		Orange
□ PET	Pet	□ ∨	Violet
		□ Y	Yellow
3.) Options:		BR	Brown
316-3	316 Stainless Steel Body, Triple	□ BK	Black
CAR-1	Surface Carrier, Single	BE	Beige
CAR-2	Surface Carrier, Double	\square W	White
☐ SOV	Shut Off Valve		
☐ SCV	Seasonal Bowl Covers (3)		
☐ FRV-3	Freeze Resistant Valve System, Triple		
☐ JF	Jug Filler		
☐ HBE	Hose Bibb Exposed		
☐ HBLD	Recessed Hose Bibb W/Lock Door		
HBLD-SS	Recessed Stainless Steel Hose Bibb w/ Lock Door		
☐ FW	Foot Wash		

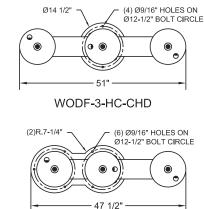
Approved For Manufacturing By: Date: Company: Wall Thickness: Wall Type:





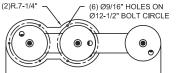
WODF-3-HC-CHD

BUBBLER



PUSH BUTTONS BUBBLER BUTTON 8-1/2" x 14" ACCESS COVER W/ SECURITY SCREWS 40" 28" 30 1/2" BUBBLER -21 3/4" 7" 5 3/4 Ø10 3/4" VANDAL RESISTANT S/S BOTTOM ACCESS PANEL

WODF-3-CHD-PET



WODF-3-HC-PET & WODF-3-CHD-PET

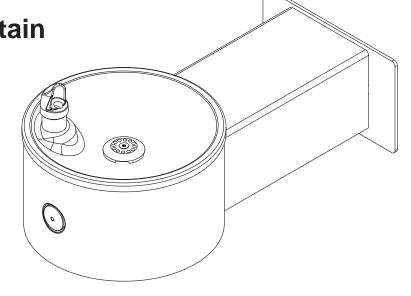
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WODF-1WM Series
Wall Mounted
Outdoor Drinking Fountain





Recommended Specifications

Willoughby Model **WODF-1WM** wall mounted outdoor drinking fountain is a single-level, vandal resistant drinking fountain with Type 304 stainless steel 10" Schedule-10 main column and 7 GA. flange.

Fountain shall have high-polished, 18 GA. stainless steel bowl with anti-rotation, anti-squirt, solid stainless steel bubbler. Bubbler shall be activated by pedestal mounted solid stainless steel push button assembly, which controls a lead-free, self-closing valve.

Push button shall require less than 5 lbs. of force to operate. Push button shall be adjustable to ensure adequate flow without being wasteful. **WODF-1WM** fountain shall be lead-free, adhering to ANSI/NSF 61, Section 9, ANSIA117.1.

When the drinking fountain bowl is mounted at an appropriate height (34" max A.F.F. for Adult ADA, 31" max A.F.F. for JR. ADA), it shall meet American Disabilities Act of 2010 (ADA) compliance requirements.

Standard Features

- * Adult ADA or Child (JR.) ADA compliant
- * 5/32" wall thickness stainless steel wall column
- * Heavy duty Type 304 stainless steel 10" Schedule-10 main column and 7 GA. flange
- * Optional marine-grade Type 316 stainless steel body for installations near salt water
- * High polished stainless steel bowl
- * Solid stainless steel, anti-rotation bubbler
- * Serviceable mesh strainer on inlet water supply
- * Heavy-duty main access panel
- * Resistant to sunlight, heat and vandalism
- * Stainless steel adjustable push button

To specify fixture and color, use the Model Number and Options Guide.

Example: To specify a WODF-1WM wall mounted outdoor drinking fountain in Blue color Use the following Willoughby Model Number: WODF-1WM-BL

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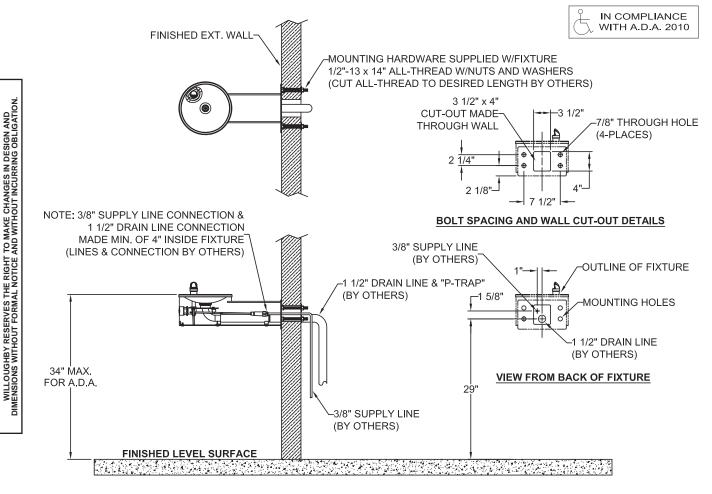
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1.) Outdoor Drin	king Fountain Type:	3.) Colors	s (select one):
■ WODF-1WM	Wall Mounted Outdoor Drinking Fountain	☐ SL	Silver
		🔲 G	Green
2.) Options:		☐ R	Red
316-1	316 Stainless Steel Body, Single	☐ BL	Blue
☐ SCV	Seasonal Bowl Cover (1)		Orange
		☐ V	Violet
		☐ Y	Yellow
		BR	Brown
		☐ BK	Black
		BE	Beige
		☐ W	White

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



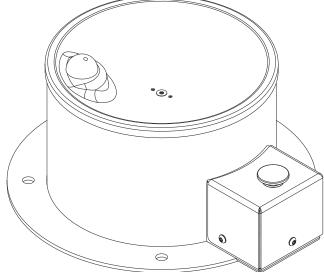
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WODF-1-PET Series
Outdoor Pet Drinking Fountain





Recommended Specifications

Willoughby Model **WODF-1-PET** outdoor pet drinking fountain is a single-level, vandal resistant drinking fountain with Type 304 stainless steel 10" Schedule-10 main column and 7 GA. flange.

Fountain shall have high-polished, 18 GA. stainless steel bowl with anti-rotation, anti-squirt, solid stainless steel bubbler. Bubbler shall be activated by pedestal mounted solid stainless steel foot-operated push button assembly, which controls a lead-free, self-closing valve.

Push button shall require less than 5 lbs. of force to operate. Push button shall be adjustable to ensure adequate flow without being wasteful. **WODF-1-PET** fountain shall be lead-free, adhering to ANSI/NSF 61, Section 9, ANSI A117.1.

Standard Features

- * Heavy duty Type 304 stainless steel 10" Schedule-10 main column and 7 GA. flange
- * Optional marine-grade Type 316 stainless steel body for installations near salt water
- * High polished stainless steel bowl
- * Solid stainless steel, anti-rotation bubbler
- * Serviceable mesh strainer on inlet water supply
- * Resistant to sunlight, heat and vandalism
- * Stainless steel adjustable push button
- * Integral slow drain

To specify fixture and color, use the Model Number and Options Guide.

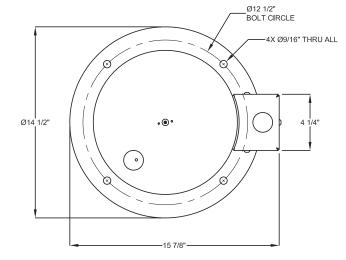
Example: To specify a WODF-1-PET outdoor pet drinking fountain in Orange color Use the following Willoughby Model Number: **WODF-1-PET-O**

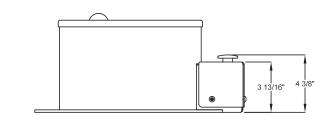
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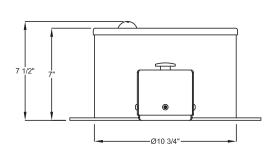
1.)	1.) Outdoor Drinking Fountain Type: 3.) Colors (select one)				
	WODF-1-PET	Outdoor Pet Drinking Fountain		SL	Silver
				G	Green
2.)	Options:			R	Red
	316-1	316 Stainless Steel Body, Single		BL	Blue
	CAR-1	Surface Carrier, Single		0	Orange
	SOV	Shut Off Valve		V	Violet
	SCV	Seasonal Bowl Cover (1)		Υ	Yellow
	FRV-1	Freeze Resistant Valve System, Single		BR	Brown
				BK	Black
				BE	Beige
				W	White

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

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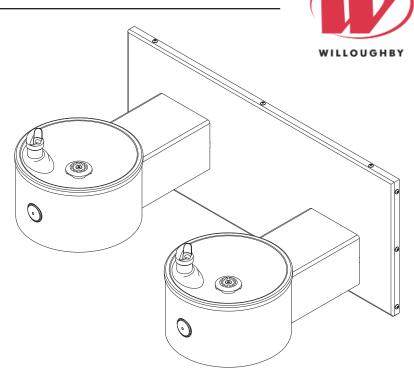






WODF-2WM Series Wall Mounted Two Station Outdoor Drinking Fountain





Recommended Specifications

Willoughby Model **WODF-2WM** wall mounted two station outdoor drinking fountain is a dual-level, vandal resistant drinking fountain with Type 304 stainless steel 10" Schedule-10 fountain bodies.

Fountains shall have high-polished, 18 GA. stainless steel bowls with anti-rotation, anti-squirt, solid stainless steel bubblers. Bubblers shall be activated by pedestal mounted solid stainless steel push button assemblies, which control lead-free, self-closing valves.

Push button shall require less than 5 lbs. of force to operate. Push button shall be adjustable to ensure adequate flow without being wasteful. **WODF-2WM** fountain shall be lead-free, adhering to ANSI/NSF 61, Section 9, ANSIA117.1.

When the fixture is correctly mounted, the respective drinking fountain bowls shall meet American Disabilities Act of 2010 (ADA) compliance requirements (34" max A.F.F. for Adult ADA, 31" max A.F.F. for JR. ADA).

Standard Features

- * Adult ADA and Child (JR.) ADA compliant
- * 5/32" wall thickness stainless steel wall columns
- * Heavy duty Type 304 stainless steel 10" Schedule-10 main columns
- * Optional marine-grade Type 316 stainless steel body for installations near salt water
- * High polished stainless steel bowls
- * Solid stainless steel, anti-rotation bubblers
- * Serviceable mesh strainer on inlet water supply
- * Heavy-duty wall mounting frame
- * Resistant to sunlight, heat, and vandalism
- * Stainless steel adjustable push buttons

To specify fixture and color, use the Model Number and Options Guide.

Example: To specify a WODF-2WM wall mounted two station outdoor drinking fountain in Beige color Use the following Willoughby Model Number: **WODF-2WM-BE**

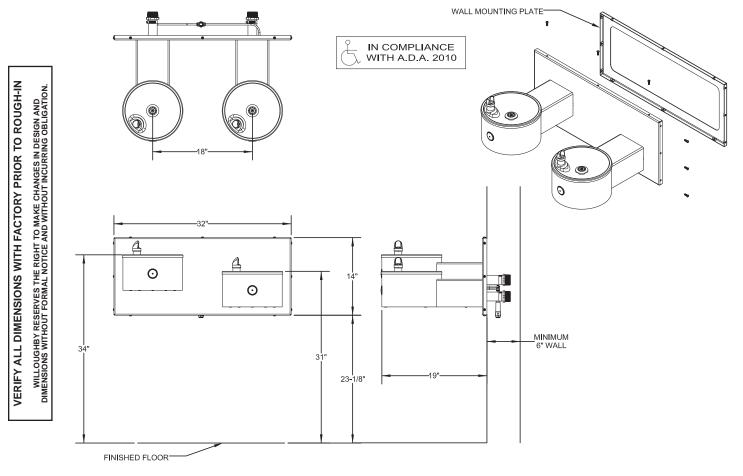
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1.) Outdoor Drinking Fountain Type: 3.) Colors (sele				
■ WODF-2WM	Wall Mounted Two Station		☐ SL	Silver
	Outdoor Drinking Fountain		☐ G	Green
			☐ R	Red
2.) Options:			☐ BL	Blue
316-1	316 Stainless Steel Body, Single			Orange
☐ SCV	Seasonal Bowl Covers (2)		\Box \lor	Violet
			□ Y	Yellow
			□ BR	Brown
			□ BK	Black
			□ BE	Beige
			\square W	White

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



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WILLIAM SHEY

CWBF-1 Series Outdoor Bottle Filler

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

Example: To specify a CWBF-1 outdoor bottle filler with recessed pushbutton, and 316 stainless steel body/cap/ flange in Green color,

Use the following Willoughby Model Number: CWBF-1-RPB-316 -G

Standard Features

- * Simple, vandal-resistant push button or optional infrared operation
- * Quick, 1-gallon-per-minute fill rate
- * One-piece fully-welded construction
- * Standard heavy duty type 304 stainless steel 8" Sched. 10 main column and 11 Ga. flange
- * Optional marine-grade type 316 stainless steel body for installations near salt water
- * Solid stainless steel vandal resistant anti-rotation filler spout
- * Replaceable in-line charcoal filter on inlet water supply
- * Heavy-duty main column access panels
- * Promotes use of environmentally friendly refillable bottles, reducing use of disposable bottles
- * Compliant to ADA reach height guidelines

Recommended Specifications

Outdoor bottle filler shall be Willoughby Model No. **CWBF-1-**___ (see Model Number and Options guide for actuator selection).

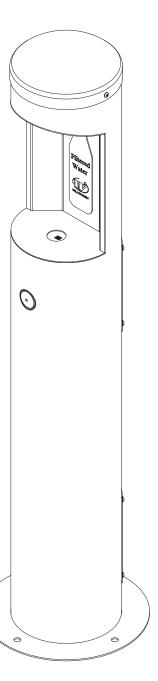
Model **CWBF-1** outdoor bottle filler shall be a single-level, vandal resistant drinking fountain with 304 stainless steel 8" Sched. 10 main column and 11 Ga. flange.

Filler spout shall be activated by a recessed mounted solid stainless steel pushbutton assembly which controls a lead-free, self-closing valve (optional battery operated infrared activation available). Pushbutton operation shall require less than 5 lbs. of force.

Flow controls (1.0 GPM) are used to ensure adequate flow without being wasteful.

Model **CWBF-1** bottle filler shall be lead-free and in compliance with ANSI/NSF 61, Section 9 requirements.

Optional 316 stainless steel body (main column, flange, and cap) are available for applications in which the unit's exterior may come into contact with salt water.



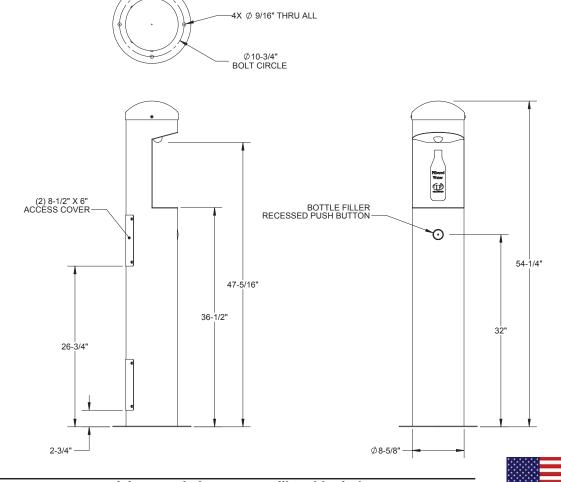


MODEL	NUMBER	AND	OPTIO	NS:
-------	--------	------------	--------------	-----

1.) Outdoo	or Drinking Fountain Type:	4.) Colors	4.) Colors (select one):		
☐ CWBF	-1	☐ SL	Silver		
		🔲 G	Green		
2.) Actuat	or options (select one):	☐ R	Red		
RPB	Recessed Push Button	☐ BL	Blue		
🔲 во	Battery Operated Infrared Sensor		Orange		
		□ ∨	Violet		
3.) Option	ns:	□ Y	Yellow		
316-1	316 Stainless Steel Body, Single	🔲 BR	Brown		
CAR-1	Surface Carrier, Single	□ BK	Black		
☐ SOV	Shut Off Valve	☐ BE	Beige		
FRV-1	Freeze Resistant Valve System, Single	□ W	White		

Ø13"

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



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CWBF-2 Series Outdoor Bottle Filler w/Drinking Fountain

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

Example: To specify a CWBF-2 outdoor bottle filler with drinking fountain with recessed pushbutton, child drinking fountain bowl height, and 316 stainless steel body/cap/flange in Blue color,

Use the following Willoughby Model Number: CWBF-2-RPB-CHD-316-BL

Standard Features

- * Adult and Child A.D.A. compliant
- * Compliant to ADA reach height guidelines
- * Quick, 1-gallon-per-minute bottle fill rate
- * One-piece fully-welded construction
- * Standard heavy duty type 304 stainless steel 8" Sched. 10 main column and 11 Ga. flange
- * Optional marine-grade type 316 stainless steel body for installations near salt water
- * Solid stainless steel vandal resistant anti-rotation bottle filler spout
- * Solid stainless steel, anti-rotation drinking fountain bubbler
- * High polished stainless steel bowl
- * Replaceable in-line charcoal filter on inlet water supply
- * Heavy-duty main column access panels
- * Resistant to sunlight, heat, and vandalism
- * Promotes use of environmentally friendly refillable bottles, reducing use of disposable bottles

Recommended Specifications

Outdoor bottle filler with drinking fountain shall be Willoughby Model No. CWBF-2-(see Model Number and Options guide for actuator selection).

Model CWBF-2 outdoor bottle filler with drinking fountain shall be a dual-level, vandal resistant drinking fountain with 304 stainless steel 8" Sched. 10 main column and 11 Ga. flange.

Bottle filler spout and fountain bubbler shall be activated by separate recessed mounted solid stainless steel pushbutton assemblies (optional battery operated infrared activation available for bottle filler spout).

Drinking fountain shall have high-polished, 18 gauge stainless steel bowl with antirotation, anti-squirt, solid stainless steel bubblers.

All pushbuttons control lead-free, self-closing valves. Pushbutton operation shall require less than 5 lbs. of force.

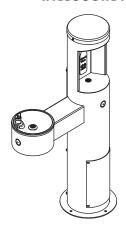
Flow controls are used to ensure adequate flow without being wasteful. Bottle filler flows 1.0 GPM, drinking fountain flows 0.5 GPM.

Model CWBF-2 fountain shall be lead-free, adhering to ANSI/NSF 61, Section 9, ANSI A117.1 and American Disabilities Act of 2010 requirements.

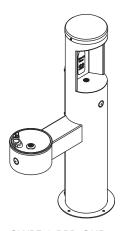
Optional 316 stainless steel body (main column, flange, and cap) are available for applications in which the unit's exterior may come into contact with salt water.

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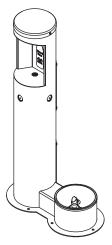




CWBF-2-RPB-HC



CWBF-2-RPB-CHD



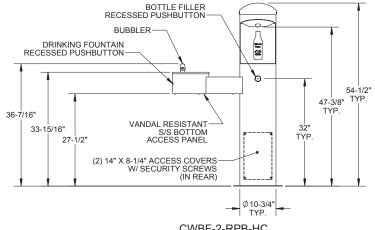
CWBF-2-RPB-PET

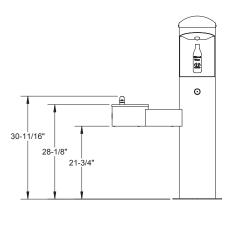


1.) Outdoor Bottle Filler Type: CWBF-2				
 2.) Bottle Filler Actuator Options (select one): RPB Recessed Push Button BO Battery Operated Infrared Sensor 				
3.) Drinking HC CHD PET	g Fountain Bowl Height (select one): Adult A.D.A. Child Pet			
4.) Option	s:			
☐ 316-2 ☐ CAR-1	316 Stainless Steel Body, Double Surface Carrier, Single Surface Carrier, Double Shut Off Valve Seasonal Bowl Cover (1)			

5.) Colors (select one):					
☐ SL	☐ SL Silver				
☐ G	Green				
☐ R	Red				
BL	Blue				
	Orange				
☐ ∨	Violet				
☐ Y	Yellow				
BR	Brown				
BK	Black				
■ BE	Beige				
□ W	White				

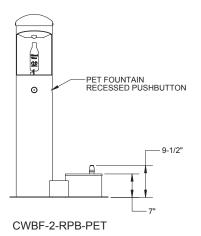
Approved For Manufacturing By: Date: . Company: Wall Thickness: Wall Type:

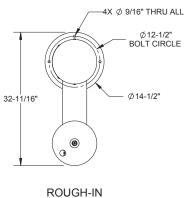


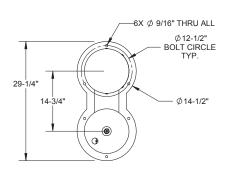


CWBF-2-RPB-HC

CWBF-2-RPB-CHD







ROUGH-IN PET HC AND CHD

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CWBF-3 Series Outdoor Bottle Filler w/Drinking Fountain

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

Example: To specify a CWBF-3 outdoor bottle filler with drinking fountain with recessed pushbutton, child drinking fountain bowl height, pet drinking fountain, and 316 stainless steel body/cap/flange in Blue color,

Use the following Willoughby Model Number: CWBF-3-RPB-CHD-PET-316-BL

Standard Features

- * Adult and Child A.D.A. compliant
- * Compliant to ADA reach height guidelines
- * Quick, 1-gallon-per-minute bottle fill rate
- * One-piece fully-welded construction
- * Standard heavy duty type 304 stainless steel 8" Sched. 10 main column and 11 Ga. flange
- * Optional marine-grade type 316 stainless steel body for installations near salt water
- * Solid stainless steel vandal resistant anti-rotation bottle filler spout
- * Solid stainless steel, anti-rotation drinking fountain bubbler
- * High polished stainless steel bowl
- * Replaceable in-line charcoal filter on inlet water supply
- * Heavy-duty main column access panels
- * Resistant to sunlight, heat, and vandalism
- * Promotes use of environmentally friendly refillable bottles, reducing use of disposable bottles

Recommended Specifications

Outdoor bottle filler with drinking fountain shall be Willoughby Model No. **CWBF-3-___** (see Model Number and Options guide for actuator selection).

Model **CWBF-3** outdoor bottle filler with drinking fountain shall be a triple-level, vandal resistant drinking fountain with 304 stainless steel 8" Sched. 10 main column and 11 Ga. flange.

Bottle filler spout and fountain bubbler shall be activated by separate recessed mounted solid stainless steel pushbutton assemblies (optional battery operated infrared activation available for bottle filler spout).

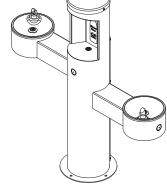
Drinking fountain shall have high-polished, 18 gauge stainless steel bowl with anti-rotation, anti-squirt, solid stainless steel bubblers.

All pushbuttons control lead-free, self-closing valves. Pushbutton operation shall require less than 5 lbs. of force.

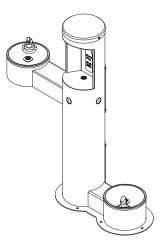
Flow controls are used to ensure adequate flow without being wasteful. Bottle filler flows 1.0 GPM, drinking fountain flows 0.5 GPM.

Model **CWBF-3** fountain shall be lead-free, adhering to ANSI/NSF 61, Section 9, ANSI A117.1 and American Disabilities Act of 2010 requirements.

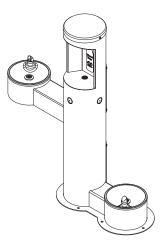
Optional 316 stainless steel body (main column, flange, and cap) are available for applications in which the unit's exterior may come into contact with salt water.



CWBF-3-RPB-HC-CHD



CWBF-3-RPB-HC-PET



CWBF-3-RPB-CHD-PET



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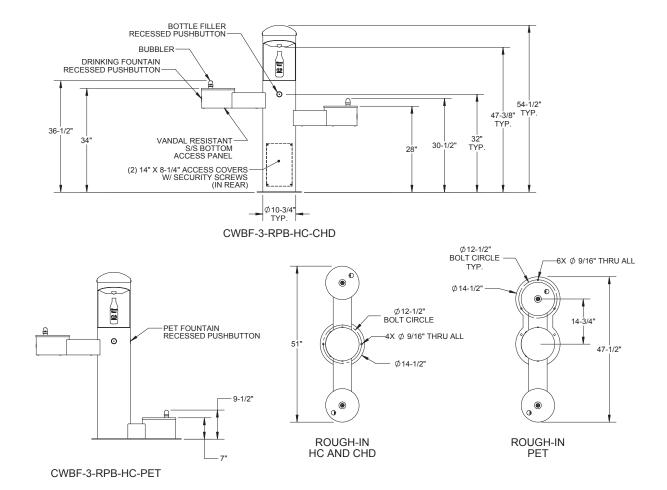
1.) Outdoor Bottle Filler Type: CWBF-3					
 2.) Bottle Filler Actuator Options (select one): RPB Recessed Push Button BO Battery Operated Infrared Sensor 					
☐ HC ☐ CHD	3.) Drinking Fountain Bowl Height (select two): HC Adult A.D.A. CHD Child PET Pet				
4.) Option	s:				
, .	316 Stainless Steel Body, Triple				
CAR-1	Surface Carrier, Single				
CAR-2	Surface Carrier, Double				
☐ SOV	Shut Off Valve				
□ SCV	Seasonal Bowl Covers (2)				

☐ FRV-3 Freeze Resistant Valve System, Triple

5.)	Colors (select one):
	SL	Silver
	G	Green
	R	Red
	BL	Blue
	0	Orange
	V	Violet
	Υ	Yellow
	BR	Brown
	BK	Black
	BE	Beige
	W	White

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

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CWBF-1WM SeriesWall Mounted Outdoor Bottle Filler

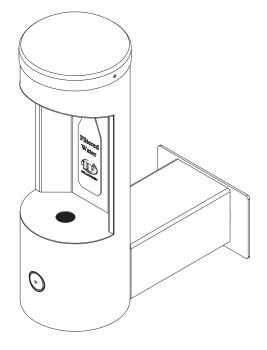
To specify fixture and options, use the Model Number and Options page.

Example: To specify a CWBF-1WM outdoor bottle filler with recessed pushbutton, and 316 stainless steel body/ cap/flange in Green color

Use the following Willoughby Model Number: CWBF-1WM-RPB-316 -G

Standard Features

- * Simple, vandal-resistant pushbutton or optional infrared operation
- * Quick, 1-gallon-per-minute fill rate
- * One-piece fully-welded construction
- * Standard heavy duty type 304 <u>stainless steel</u> 8" Sched. 10 main column and 11 Ga. flange
- * Optional marine-grade type 316 <u>stainless steel</u> body for installations near salt water
- * 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



Recommended Specifications

Wall mounted outdoor bottle filler shall be Willoughby Model No. **CWBF-1WM** ____ (see Model Number and Options guide for actuator selection).

Model **CWBF-1WM** outdoor bottle filler shall be a single-level, vandal resistant drinking fountain with 304 stainless steel 8" Sched. 10 main column and 11 Ga. flange.

Filler spout shall be activated by a recessed mounted solid stainless steel pushbutton assembly which controls a lead-free, self-closing valve (optional hardwire- or battery operated- infrared activation available). Pushbutton operation shall require less than 5 lbs. of force.

Flow controls (1.0 GPM) are used to ensure adequate flow without being wasteful.

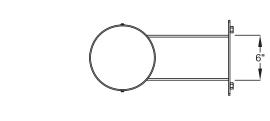
Model **CWBF-1WM** bottle filler shall be lead-free and in compliance with ANSI/NSF 61, Section 9 requirements.

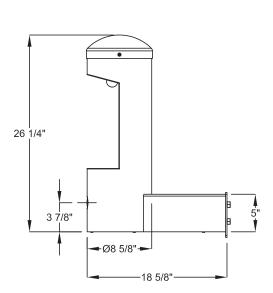
Optional 316 stainless steel body (main column, flange, and cap) are available for applications in which the unit's exterior may come into contact with salt water.

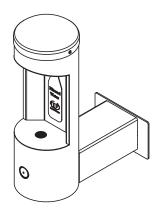
MODEL	NUMBER		OPTI	ONS.
INIODEL	NUMBER	AND	OFII	UNS.

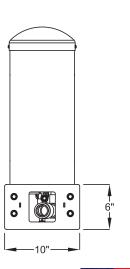
1.) Outdoor Drinking Fountain Type:		4.) Colors	4.) Colors (select one)	
☐ CWE	BF-1WM	☐ SL	Silver	
		🔲 G	Green	
2.) Actu	ator options (select one):	☐ R	Red	
☐ RPB	Recessed Push Button	BL	Blue	
🔲 IR	Infrared Sensor		Orange	
□ во	Battery Operated Infrared Sensor	□ ∨	Violet	
		☐ Y	Yellow	
3.) Opt	ions:	BR	Brown	
316	1 316 Stainless Steel Body, Single	□ BK	Black	
☐ SOV	Shut Off Valve	☐ BE	Beige	
		☐ W	White	

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









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WILLDHIGHEY

WODS Series Outdoor Shower

1	MODEL NUMBER	SHOWER HEADS	FOOT SHOWERS
	WODS-1-0	1	0
	WODS-1-1	1	1
	WODS-2-0	2	0
	WODS-2-1	2	1
	WODS-2-2	2	2
	WODS-4-0	4	0
	WODS-4-1	4	1
	WODS-4-2	4	2

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

Example: To specify a WODS outdoor shower with 4 shower heads, 1 foot shower, 1.5 GPM flow rate, 316 stainless steel body / cap / flange, in Violet color

Use the following Willoughby Model Number: WODS-4-1-1.5-316-V

Recommended Specifications

Outdoor shower shall be Willoughby Model No. **WODS-__-** (select number of shower heads and foot showers from table above).

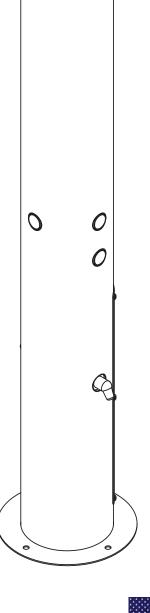
Model **WODS** outdoor shower shall be vandal resistant with a 304 stainless steel 8" Sched. 10 main column and 11 Ga. flange.

Shower heads shall be activated by recessed mounted solid stainless steel push button assemblies controlling lead-free metering valves. Shower unit is easily winterized by turning off the fixture supply line (shut-off valve by others), disconnecting the flexible supply hoses from the valves, and removing the valves from within the body; all valves are secured using a single-point attachment nut.

Shower heads and optional foot showers shall be Willoughby all-stainless steel (NPS) non-user adjustable shower heads.

Shower unit shall be factory assembled, tested for proper operation and ready for installation by a contractor. Unit to be anchored using 1/2"-13 anchoring bolts (by others).

Optional marine-grade type 316 stainless steel body (main column, flange, and cap) is available for applications in which the unit's exterior may come into contact with salt water.



1	Outdoor	Shower	Typo:
	Outuou	SHOWEL	IVDE.

☐ WODS

2.) Head Showers:

1 One (1) Head Shower **2** Two (2) Head Showers **4** Four (4) Head Showers

3.) Foot Showers:

□ 0 □ 1 No Foot Showers One (1) Foot Shower **2** Two (2) Foot Showers

4.) Flow Rates:

- ☐ 1.5 GPM (Standard)
- ☐ 2.0 GPM
- ☐ 2.5 GPM

5.) Options:

☐ 316-ODS 316 Stainless Steel Body For Outdoor Shower

☐ HBE Hose Bibb Exposed

☐ HBLD Recessed Hose Bibb w/Lock Door

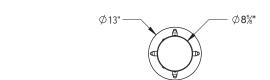
☐ HBLD-SS Recessed Stainless Steel Hose Bibb w/Lock Door

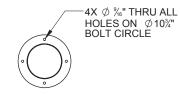
☐ JF Jug Filler

CAR-ODS Surface Carrier For Outdoor Shower 6.) Colors (select one):

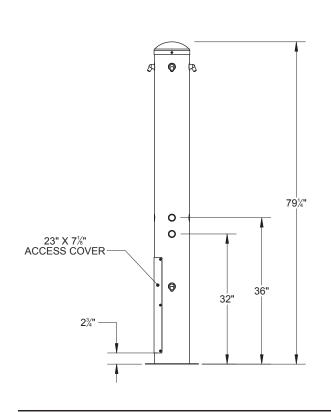
- ☐ SL Silver
- □ G Green
- ☐ R Red
- ☐ BL Blue
- Orange
- □ ∨ Violet
- □ Y Yellow
- ☐ BR Brown
- ☐ BK Black
- □ BE Beige
- \square W White

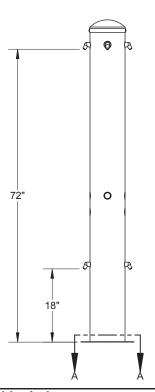
Approved For Manufacturing By: _ Date: _ Company: Wall Thickness: Wall Type:





SECTION A-A





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WODS-ADA Series ADA Outdoor Shower





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

Example: To specify a WODS-ADA outdoor shower with one-sided approach, 1.5 GPM flow rate, 316 stainless steel body/cap/flange, in Yellow color

Use the following Willoughby Model Number: WODS-ADA-1A-1.5-316-Y

Recommended Specifications

Outdoor shower shall be Willoughby Model No. WODS-ADA- ...

Model WODS-ADA outdoor shower shall be vandal resistant with a 304 stainless steel 8" Sched. 10 main column and 11 Ga. flange.

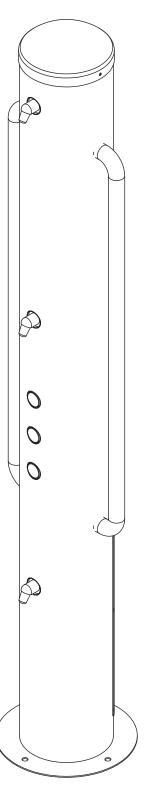
Meets ADA requirements with one (1) standard shower head, one (1) shower head at ADA height, one (1) foot shower, two (2) grab bars, and three (3) push buttons for operating showers. Push button for ADA shower head is also at ADA height requirement.

Shower heads shall be activated by recessed mounted solid stainless steel push button assemblies controlling lead-free metering valves. Shower unit is easily winterized by turning off the fixture supply line (shut-off valve by others), disconnecting the flexible supply hoses from the valves, and removing the valves from within the body; all valves are secured using a single-point attachment nut.

Shower heads and optional foot showers shall be Willoughby all-stainless steel (NPS) nonuser adjustable shower heads.

Shower unit shall be factory assembled, tested for proper operation and ready for installation by a contractor. Unit to be anchored using 1/2"-13 anchoring bolts (by others).

Optional marine-grade type 316 stainless steel body (main column, flange, and cap) is available for applications in which the unit's exterior may come into contact with salt water.



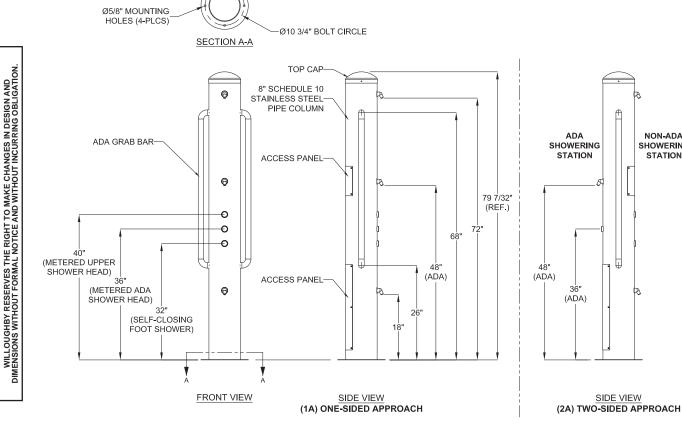
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4.) Outdo	er Chauser Type:		E \ Cal
,	or Shower Type:		5.) Col
☐ WODS	S-ADA		☐ SL
			☐ G
2.) Appro	ach:		☐ R
□ 1A	One-sided Approach-	 Both ADA and non-ADA showering stations are on the same side of the shower column 	☐ BL ☐ O
□ 2A	Two-sided Approach [*]	- ADA and non-ADA showering stations are on	□ V
_		opposite sides of the shower column	\Box Y
		.,,,	□ BR
*NOTE:	Foot Shower station	n will be placed on the same side as	☐ BK
	the non-ADA showe	•	☐ BE
	ano mon Abar onome	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
3.) Flow I	Patos		– **
•			
_	PM (Standard)		
2.0 GF			
☐ 2.5 GI	PΜ		
4.) Option			
☐ 316-ODS 316 Stainless Steel Body For Outdoor Shower			
CAR-0	☐ CAR-ODS Surface Carrier For Outdoor Shower		

5.) Color:	s (select one):
☐ SL	Silver
☐ G	Green
☐ R	Red
□ BL	Blue
	Orange
□ ∨	Violet
□ Y	Yellow
BR	Brown
□ BK	Black
□ BE	Beige
□ W	White

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Wall Thickness:	Wall Type:		



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NON-ADA SHOWERING

STATION

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WODFS Series Outdoor Foot Shower

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

Example: To specify a WODFS outdoor foot shower with 2 foot shower heads, 1.5 GPM flow rate, 316 stainless steel body/cap/flange, in Silver color

Use the following Willoughby Model Number: WODFS-2-1.5-316-ODS-SL

Recommended Specifications

Outdoor Foot Shower shall be:
Willoughby Model No. **WODFS-__...**(Select from model number and options list on next page)

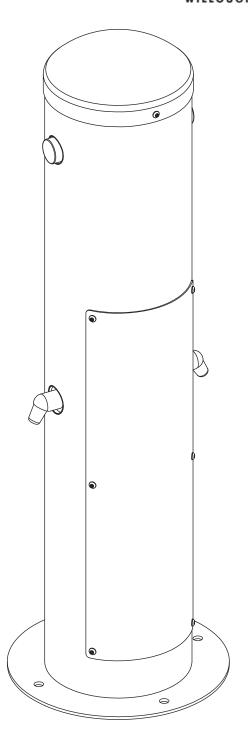
Model **WODFS** outdoor foot shower shall be vandal resistant with a 304 stainless steel 8" Sched. 10 main column and 11 Ga. flange.

Foot shower head(s) shall be activated by recessed mounted solid stainless steel push button assemblies controlling lead-free metering valves. Shower unit is easily winterized by turning off the fixture supply line (shut-off valve by others), disconnecting the flexible supply hoses from the valves, and removing the valves from within the body; all valves are secured using a single-point attachment nut.

Foot shower head(s) shall be Willoughby all-stainless steel (NPS) non-user adjustable shower heads.

Shower unit shall be factory assembled, tested for proper operation and ready for installation by a contractor. Unit to be anchored using 1/2"-13 anchoring bolts (by others).

Optional marine-grade type 316 stainless steel body (main column, flange, and cap) is available for applications in which the unit's exterior may come into contact with salt water.



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1.)	Outdoor Snov	ver type:
	WODFS	Outdoor Foot Shower
2.)	Foot Showers	:
	1	Single (1) Foot Shower Head
	2	Dual (2) Foot Shower Heads
3.)	Flow Rates:	
	1.5 GPM (Stan	dard)
	2.0 GPM	
ā	2.5 GPM	
4.)	Options:	
	316-ODS	316 Stainless Steel Body For Outdoor Shower
	HBE	Hose Bibb Exposed
	HBLD	Recessed Hose Bibb w/Lock Door
	HBLD-SS	Recessed Stainless Steel Hose Bibb w/Lock Door
	IE .	lue Ellee

Surface Carrier For Outdoor Shower

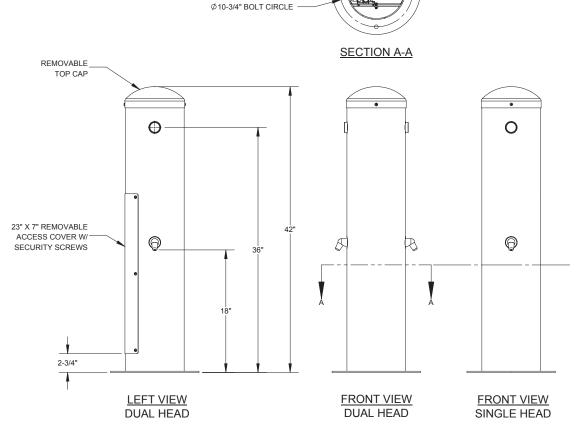
☐ CAR-ODS

5.)	Colors	(select one):
	SL	Silver
	G	Green
	R	Red
	BL	Blue
	0	Orange
	V	Violet
	Υ	Yellow
	BR	Brown
	BK	Black
	BE	Beige
	W	White

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

(4) Ø9/16" MOUNTING HOLES

Ø13"



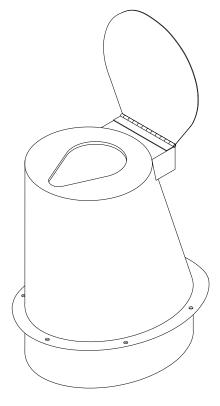
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WT-2016 Waterless Toilet



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

Example: To specify a WT-2016 unit with a white hinged plastic seat: Use the following Willoughby Model Number: WT-2016-HS-White

Recommended Specifications

Waterless toilet shall be Willoughby Model No. WT-2016.

This unit is designed for use in parks, campgrounds, farms and wilderness areas where traditional waste systems are not available. Unit is designed for installation over vented pits. Fixture body shall be fabricated from 18 gauge type 304 stainless steel. Below floor extension is fabricated from 24 gauge type 304 stainless steel.

The construction shall be spot welded with exposed stainless surfaces polished to a #4 finish.

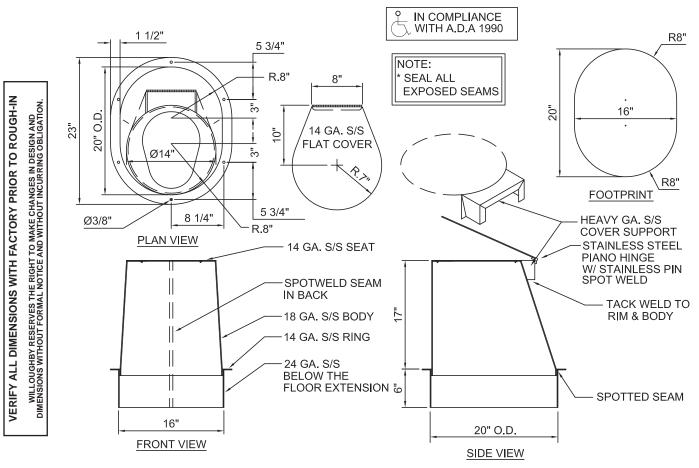
Waterless toilet shall include: 18 gauge stainless steel seat with piano hinge and 1 1/2" wide floor flange with 3/8" anchor holes. Anchoring hardware by others.



1.) Options:

☐ HS Hinged White Plastic Seat

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Wall Thickness:	Wall Type:		. ,



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