

INFORMATION TO BIDDERS for the

BRH Central Sterile Region Equipment Upgrades Contract No. BE22-025

ISSUED BY:

City and Borough of Juneau ENGINEERING DEPARTMENT 155 South Seward Street Juneau, Alaska 99801

Date Issued: June 25, 2021

The following information is posted online. Please refer to the CBJ Engineering Contracts Division webpage at: www.juneau.org/engineering-public-works. This is *not* an addendum.

INFORMATION TO BIDDERS:

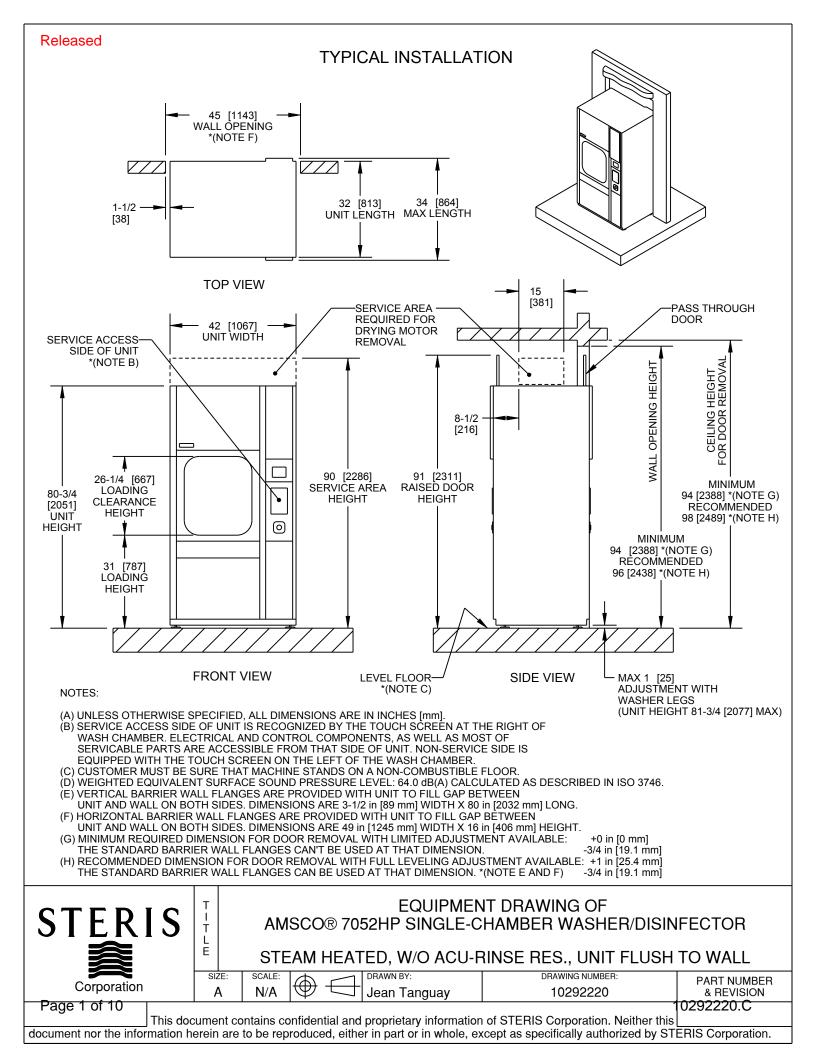
- The existing washer/sterilizer unit and existing sonic irrigator equipment shall remain accessible and operational as much as possible. During the demolition and reconfiguration of the wall between Decontam 2317 and Central Sterile 2368 the ICRA work area shown on Sheet M1.0 will need to leave access to the existing sterilizer. Interruptions to the use of the existing sterilizer shall be minimized and coordinated with BRH for acceptable timing of the work. Similarly, the ICRA work area shown around the existing sonic irrigator shall be modified as necessary to maintain access to the existing sonic irrigator whenever possible. Work requiring shut downs of existing equipment may need to occur on weekends or nights.
- Attached is the manufacturer's information for the new owner supplied equipment.

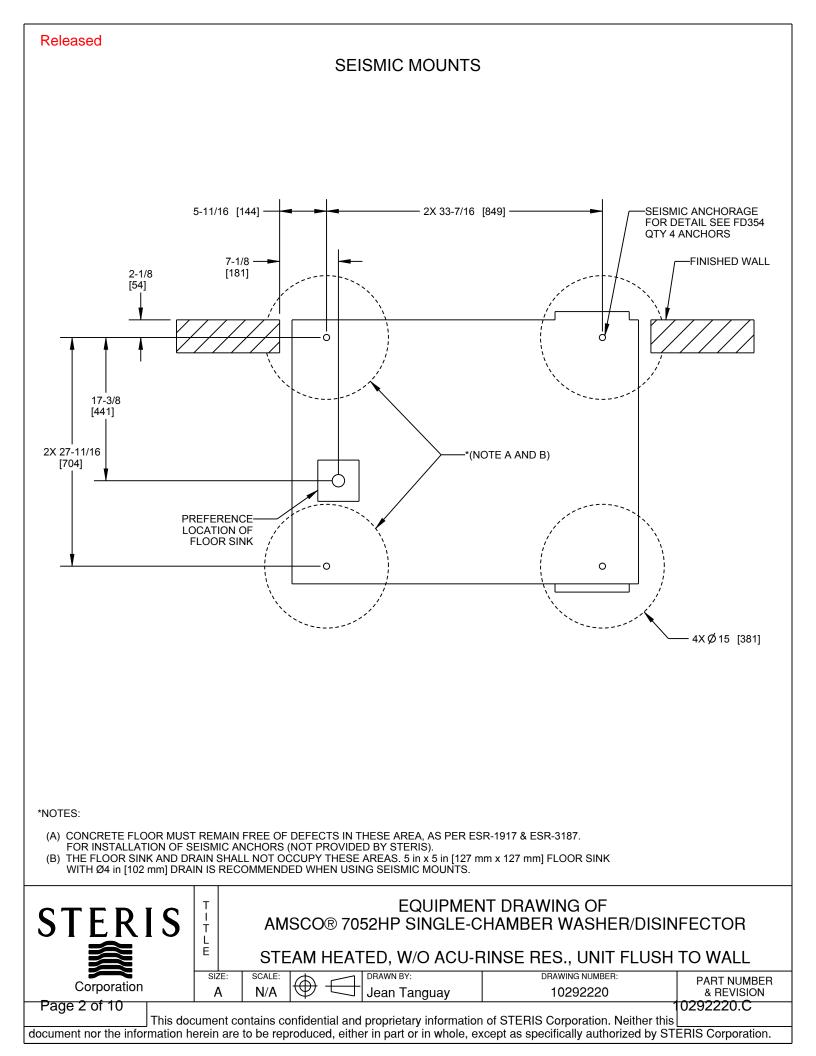
CLARIFICATIONS:

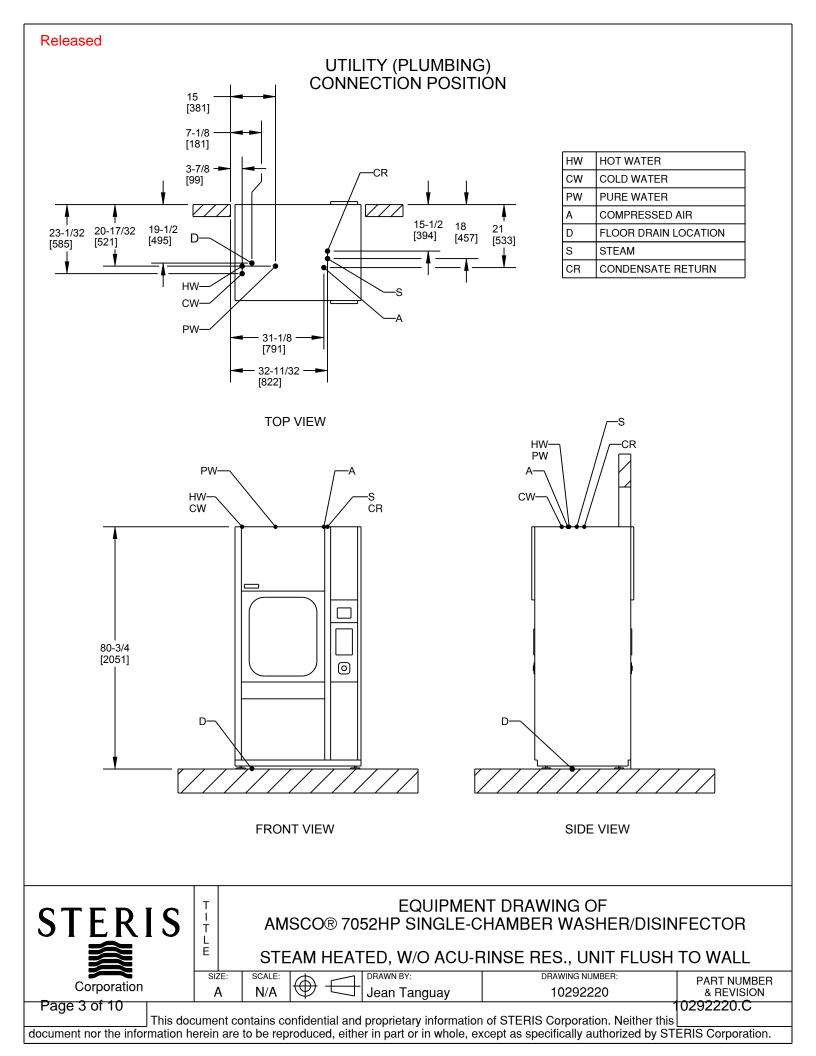
- QUESTION: "If the add alternate is made a part of this project, can the existing raceway between the existing sonic irrigator and the panelboards be re-utilized?"
- RESPONSE: The existing raceway may be reutilized if it is at least 1" trade size. Reroute the existing raceway at the panelboards and in Decontam 2317 as necessary
- QUESTION: "How can the conduits be installed in Decontam 2317? How can the new raceways for the relocated disconnect be installed in Decontam 2317?"
- RESPONSE: All new and replaced conduits shall be concealed in finished walls or above ceilings per the drawing specifications.
- QUESTION: "Can the existing conduit housing the existing sterilizer chemical feeds be used for the new sterilizer chemical feeds?"
- RESPONSE: It appears that there is enough space in the existing conduit to house additional chemical feed lines. Use of the existing conduit for the new chemical feeds is acceptable if there is room. Contractor shall verify if existing conduit has adequate space for new lines.

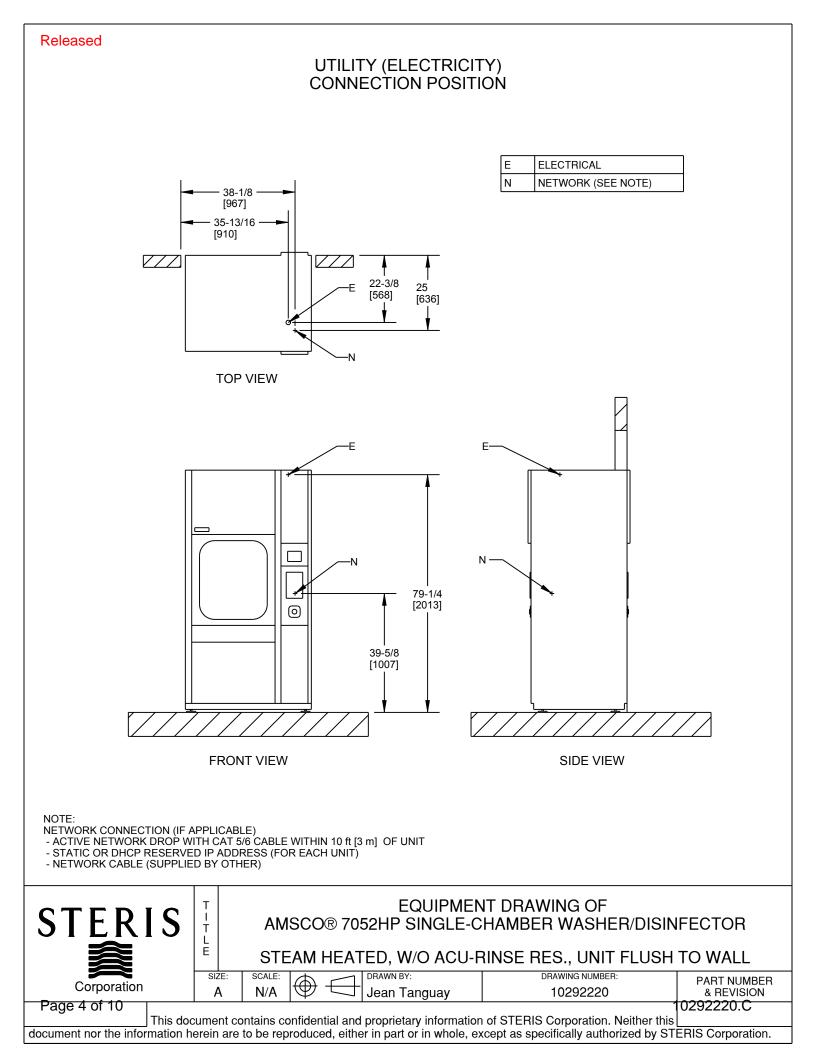
- Question: "Can the existing carts near the entrance door to Decontam 2371 be moved to provide more space for passage when the ICRA barriers are installed."
- Response: Yes, BRH will relocate the carts. ICRA barriers shall leave a minimum of 48

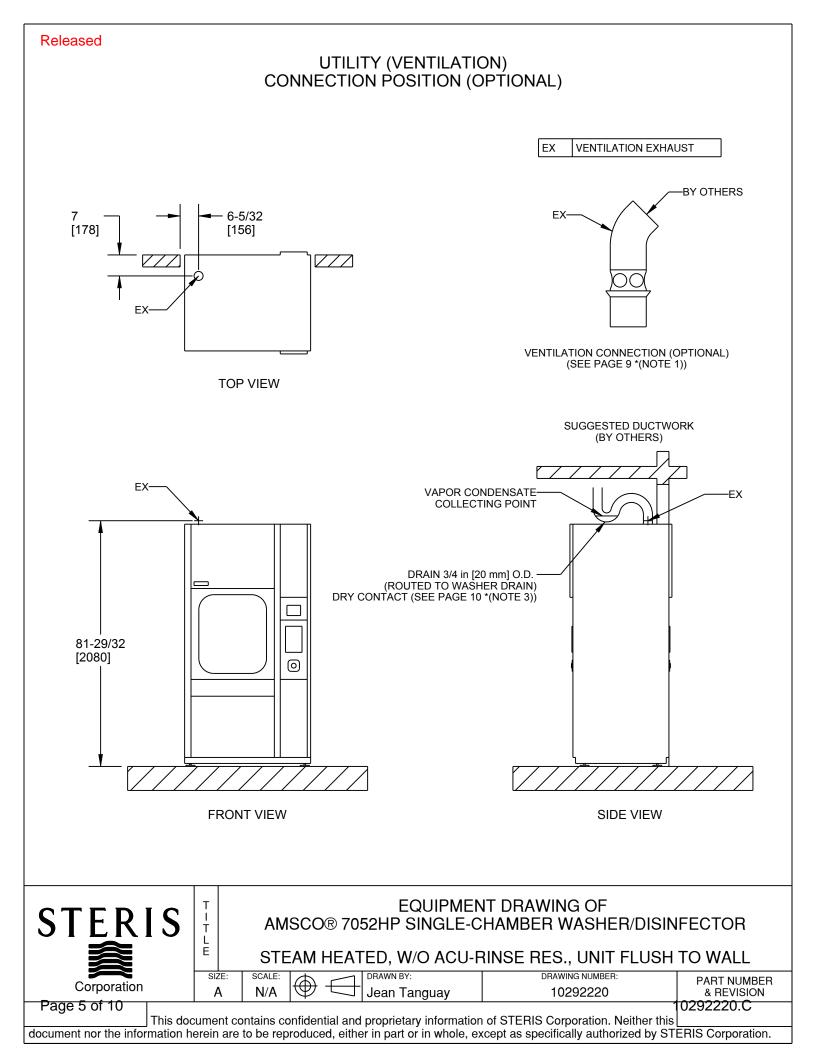
Total number of pages contained within this Information Item: 24

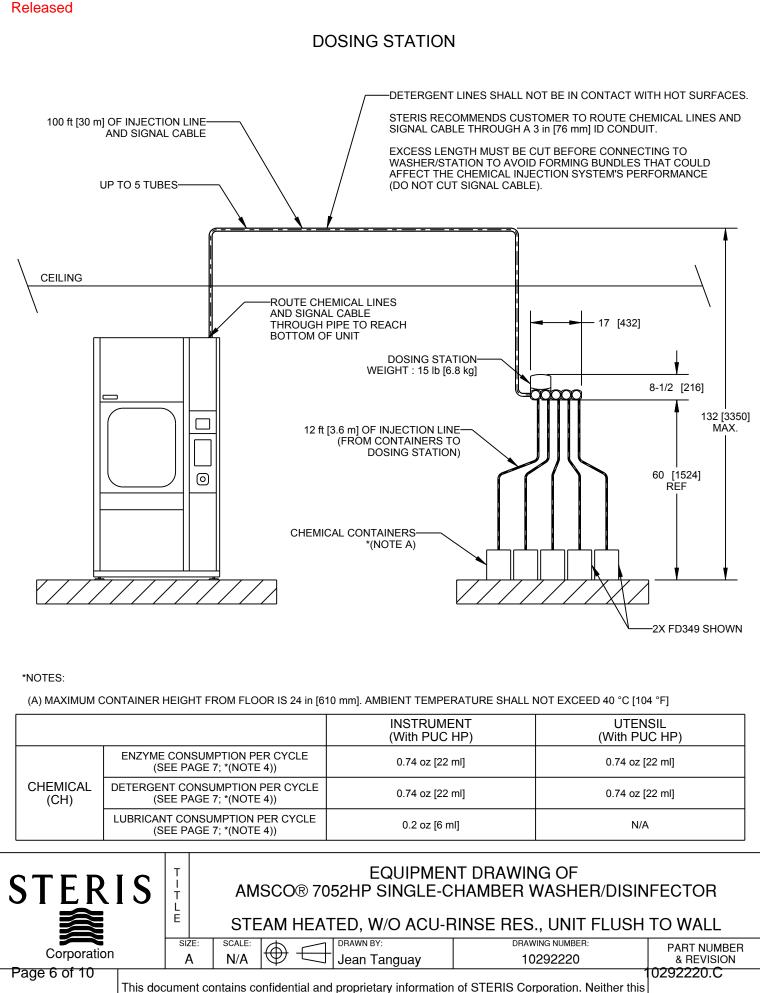












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Released	UTIL	ITY REQUIREMENTS CHART	(Pl	_UMBING)		
UTILITY	PARAMETER	REQUIREMENT	\checkmark	NOTES		
	CONNECTION SIZE / TYPE	1/2 in / FEMALE NPT [1/2 in / MALE BSPT]		1. STERIS REQUIRES TO INSTALL WATER HAMMER ARRESTOR, UNION & PRESSURE GAUGE.		
	PRESSURE RANGE	15 - 50 psig DYNAMIC [103-345 kPa] MAX. 90 psig STATIC [620 kPA]		2. CUSTOMER MUST PROVIDE UTILITY CONNECTIONS WITH SHUTOFFS DISCONNECTS WITHIN 2 FEET OF THE PERIMETER OF THE EQUIPMENT AND BELOW THE CEILING DECK.		
HOT WATER	OPERATING FLOW RATE	6.8 US GPM [25.7 L/min] TO 14.1 US GPM [53.4 L/min]		*STERIS OFFERS FLEXIBLE HOSES ACCESSORY (FD088 OR FD037) WITH INSTRUCTIONS.		
(HW)	TOTAL CONSUMPTION PER INSTRUMENT CYCLE *(NOTE 4)	9.9 US GAL [37.5 L] WITH ACU-WASH RESERVOIR: 6.6 US GAL [25.0 L]		3. SAMPLING VALVES INSTALLATION AS CLOSE AS POSSIBLE TO WASHER WATER CONNECTIONS IS RECOMMENDED.		
	TEMPERATURE RANGE	110 °F [43 °C] TO 150 °F [65.5 °C]				
	WATER QUALITY *(NOTE 5)	HARDNESS (CaCO3) : 50-80 ppm (MAX. 120 ppm)				
	CONNECTION SIZE / TYPE	1/2 in / FEMALE NPT [1/2 in / MALE BSPT]		4. CONSUMPTION BASED ON INSTRUMENT CYCLE WIT PROLYSTICA ULTRA CONCENTRATE HIGH PERFORMANCE CHEMICALS (PUC HP) WITH		
	PRESSURE RANGE	30 - 50 psig DYNAMIC [206-345 kPa] MAX. 90 psig STATIC [620 kPa]		THE FOLLOWING UTILITY CONDITIONS: THREE-LEVEL MANIFOLD RACK (CW) COLD WATER PRESSURE: 30 psig DYNAMIC		
	OPERATING FLOW RATE	10.7 US GPM [40.5 L/min] TO 14.1 US GPM [53.4 L/min]		[207 kPa] (CW) COLD WATER TEMPERATURE: 70 °F [21 °C] (HW) HOT WATER TEMPERATURE: 150 °F [65 °C]		
COLD WATER (CW) *(NOTES 6)	TOTAL CONSUMPTION PER INSTRUMENT CYCLE *(NOTE 4)	FOR SUMP FILLING: 10.5 US GAL [39.8 L] (ADD THE FOLLOWING CONSUMPTION FOR OPTIONS/CONFIGURATIONS) CONDENSATE RETURN COOL DOWN: 6.2 US GAL [23.5 L] NON-VENTED SYSTEM: 12.9 US GAL [48.8 L] DRAIN COOLDOWN: 14.5 US GAL [54.9 L] DRAIN ACU-COOLDOWN: 10.9 US GAL [41.3 L]		 (PW) PURE WATER TEMPERATURE 70 °F [21 °C] (S) STEAM SUPPLY: 80 psig DYNAMIC [552 kPa] UTENSIL CYCLE CONSUMPTION: TWO-LEVEL MANIFOLD RACK CW: 10.4 US GAL [39.4 L] HW: 9.6 US GAL [36.3 L] PW: 6.4 US GAL [24.2 L] S: 14.1 Ib [6.4 kg] 5. STERIS RECOMMENDS THE FOLLOWING WATER QUALITY PARAMETERS: TOTAL DISSOLVED SOLIDS: 100-200 ppm (MAX. 500 ppm) 		
	TEMPERATURE RANGE	70 °F [21 °C] MAXIMUM		TOTAL ALKALINITY (CaCO3) : 70-120 ppm (MAX. 180 ppm) pH : 6.8-7 (MAX. 7.5)		
	WATER QUALITY *(NOTE 5)	HARDNESS (CaCO3) : 50-80 ppm (MAX. 120 ppm)		TOTAL SILICA : 0.1-0.5 ppm (MAX. 1 ppm)		
	CONNECTION SIZE / TYPE	1/2 in / FEMALE NPT [1/2 in / MALE BSPT]		6. BACK FLOW PREVENTER AGAINST BACK SIPHONAGE MAY BE REQUIRED (LOCAL PLUMBING CODE)		
	PRESSURE RANGE	5 - 30 psig DYNAMIC [30 - 206 kPa] MAX. 90 psig STATIC [620 kPa]		7. PW IS OPTIONAL. IF UNAVAILABLE, UNIT WILL PROCESS THERMAL RINSE USING HOT WATER SUPPLY.		
	OPERATING FLOW RATE	5.5 US GPM [21 L/min] TO 12.6 US GPM [48 L/min]				
PURE WATER (PW)	TOTAL CONSUMPTION PER INSTRUMENT CYCLE *(NOTE 4 AND NOTE 7)	6.6 US GAL [25.0 L]				
	TEMPERATURE RANGE	70 °F [21.1 °C] TO 150 °F [65.5 °C]				
	RESISTIVITY (CONDUCTIVITY)	0.1-0.5 MΩ -cm (2-10 μS/cm)				
	pН	6.8 - 7.5				
STERIS T EQUIPMENT DRAWING OF AMSCO® 7052HP SINGLE-CHAMBER WASHER/DISINFECTOR						
	SIZE: SCA		INS	SE RES., UNIT FLUSH TO WALL DRAWING NUMBER: 10292220 PART NUMBER & REVISION		
Corpora Page 7 of 10		A 🖤 🖵 Jean Tanguay	🖤 🥣 Jean Tanguay			

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	UTIL	ITY REQUIREMENTS CHART	(PL	LUMBING)		
UTILITY	PARAMETER	REQUIREMENT		NOTES		
	CONNECTION SIZE / TYPE	1/8 in / FEMALE NPT [1/8 in / MALE BSPT]		1. AIR PURITY PER ISO-8573-1: 2010 [7:4:4] MAX. PARTICLE DENSITY: 10 mg/m ³ MAX. DEW POINT FOR WATER CONTENT: 37 °F [3 °C] MAX. OIL CONCENTRATION FOR THE OIL CONTENT: 5 mg/m ³		
COMPRESSED AIR (A)	PRESSURE RANGE	MIN 80 psig DYNAMIC [552 kPa] MAX. 125 psig STATIC [860 kPa]		2. STERIS RECOMMENDS A REFRIGERATED AIR DRYER WHERE ENVIRONMENTAL DEW POINT CONDITIONS ARE HIGHER THAN RECOMMENDED.		
	OPERATING FLOW RATE	1.75 SCFM [50 L/min]		3. CUSTOMER MUST PROVIDE UTILITY CONNECTIONS WITH SHUTOFFS DISCONNECTS WITHIN 2 FEET OF THE PERIMETER OF THE EQUIPMENT AND BELOW THE CEILING DECK.		
DRAIN	FLOOR DRAIN SIZE	MIN 4 in [102 mm] O.D. WITH 8 in x 8 in [204 mm x 204 mm] FLOOR SINK		 WASHER DRAIN OUTLET SIZE 1-1/2 in / MALE NPT MAX OFFSET OF ± 3/4 in [19 mm] FROM OUTLET (PAGE 3, D). FOR DRAIN REQUIREMENTS WHEN USING SEISMIC MOUNTS, SEE PAGE 2. 		
(D)	OPERATING FLOW RATE	GRAVITY DRAIN : 50 US GPM [189.3 L/min]		SEISMIC MOONTS, SEE FAGE 2.		
	CONNECTION SIZE / TYPE	1/2 in / FEMALE NPT [1/2 in / MALE BSPT]		7. STERIS REQUIRES AT LEAST 97% SATURATED DRY PLANT STEAM, FREE OF DIRT, RESIDUES AND CONTAMINANTS.		
	PRESSURE RANGE	30 - 80 psig DYNAMIC [206-552 kPa] MAX. 90 psig STATIC [620 kPa]		 8. STERIS RECOMMENDS TO INSTALL A STEAM TRAP AS CLOSE AS POSSIBLE TO UNIT CONNECTION. 9. PROPER OPERATION OF THE WASHER 		
STEAM INLET (S)	OPERATING MASS FLOW RATE	169 lb/h [76.5 kg/h] AT 30 psig [207 kPa] 271 lb/h [123 kg/h AT 80 psig [550 kPa]		9. PROPER OPERATION OF THE WASHER REQUIRES A MINIMUM PRESSURE DIFFERENTIAL OF 21.5 psig [148 kPa] BETWEEN STEAM INLET AND CONDENSATE RETURN. IN CASES OF LOW STEAM INLET PRESSURE, CONDENSATE CAN BE ROUTED TO DRAIN TO INCREASE DIFFERENTIAL.		
	TOTAL CONSUMPTION PER INSTRUMENT CYCLE (SEE PAGE 7, *(NOTE 4))	14.1 lb [6.4 kg]		*STERIS OFFERS CONDENSATE RETURN TO DRAIN ACCESSORY (FD353) 10. CUSTOMER MUST PROVIDE UTILITY		
	PRESSURE RANGE	MAX. 8.5 psig [68.9 kPa] BACK PRESSURE (17 ft [5.2 m] ELEVATION)		CONNECTIONS WITH SHUTOFFS DISCONNECTS WITHIN 2 FEET OF THE PERIMETER OF THE EQUIPMENT AND BELOW THE CEILING DECK.		
CONDENSATE RETURN (CR)	OPERATING FLOW RATE	PEAK : 0.54 US GPM [2.05 L/min]		-		
(-)	CONNECTION SIZE / TYPE	1/2 in / FEMALE NPT [1/2 in / MALE BSPT]				
CHEMICAL DOSING SYSTEM	CEILING ROUTING CONDUIT	3 in CONDUIT		11. STERIS RECOMMENDS TO ROUTE CHEMICAL LINES AND SIGNAL CABLE THROUGH A 3 in [76 mm] ID CONDUIT (BY OTHERS). 100 ft [30 m] OF INJECTION LINE AND SIGNAL CABLE ARE PROVIDED WITH THE UNIT.		
STEF		AMSCO® 7052HP SINGLE-CI	HAN	RAWING OF MBER WASHER/DISINFECTOR SE RES., UNIT FLUSH TO WALL DRAWING NUMBER: PART NUMBER		
Corpora Page 8 of 10		ALE: A Jean Tanguay	of S1	10292220 & REVISION 10292220.C		

UTILITY CONNECTION NOMINAL AMPERAGE RECOMMENDED CRCUT 200-208V 80 Hz, 3-Ph 1 in [27 mm] 1-14 in [35 mm] CONDUT 36 A 50 A 1 AL CONNECTIONS SHOULD BE IN AUXORAL CODES. 200-208V 90 Hz, 3-Ph 1 in [27 mm] 1-14 in [35 mm] CONDUT 36 A 50 A 3 AUXORAL FREE TRICAL CODES AUXOSATE FUEL AND SERVICE DURAL CODES AUXOSATE FUEL AND SERVICE DURAL ELECTRICAL CODES AUXOSATE FUEL AND SERVICE DURAL ELECTRICAL SUBJECT DURAL ELECTRICAL SUBJECT DURAL ELECTRICAL CODES AUXOSATE FUEL DURAL ELECTRICAL SUBJECT DURAL E			PARAMET	ER AND REQ	UIREMENT	NOTES
Image: heat of the system 1 in [27 mm] 1-1/4 in [35 mm] CONDUIT 36 A 50 A Accordance with Local codes. 200-208V 60 Hz, 3-Ph 1 in [27 mm] CONDUIT 36 A 50 A 3.4Wards Follow Local electrical codes. ALWArds Follow Local electrical codes. ALWARD CONDUIT 200-208V 50 Hz, 3-Ph 1 in [27 mm] 1-1/4 in [35 mm] CONDUIT 35 A 50 A 6. Steris Recommends a Light in Service AREA. 460-480V 60 Hz, 3-Ph 1 in [27 mm] 1-1/4 in [35 mm] CONDUIT 16.5 A 30 A 6. Steris Recommends a Light in Service AREA. 380-400-V 60 Hz, 3-Ph 1 in [27 mm] 1-1/4 in [35 mm] CONDUIT 19 A 30 A 30 A	UTILITY					
LECTRICITY (EL) 200-208V 60 Hz, 3-Ph MIN. CIRCUIT 1 in [27 mm] 1-1/4 in [35 mm] CONDUIT 28.5 A 40 A 4. WIRING ON THE EQUIPMENT TERMINATES AT A JUNCTION BOX. WIRING BETWEEN JUNCTION BOX AND BUILDING SERVICE LINES ARE NOT SUPPLIED BY STERIS. 200-208V 50 Hz, 3-Ph 1 in [27 mm] 1-1/4 in [35 mm] CONDUIT 35 A 50 A 5. DISCONNECT SWITCHES WITH OFF POSITION LOCKOUT (SUPPLIED BY OTHERS) MUST BE INSTALLED IN ELECTRIC SUPPLY LINES NEAR THE EQUIPMENT. 460-480V 60 Hz, 3-Ph 1 in [27 mm] 1-1/4 in [35 mm] CONDUIT 35 A 50 A 6. STERIS RECOMMENDS A LIGHT IN SERVICE AREA. 380-400V 60 Hz, 3-Ph 1 in [27 mm] 1-1/4 in [35 mm] CONDUIT 16.5 A 30 A 30 A 380-400V 60 Hz, 3-Ph 1 in [27 mm] 1-1/4 in [35 mm] CONDUIT 19 A 30 A 30 A			1 in [27 mm] 1-1/4 in [35 mm]			ACCORDANCE WITH LOCAL CODES. 2. NEUTRAL WIRE NOT REQUIRED. 3. ALWAYS FOLLOW LOCAL ELECTRICAL CODES AND SAFETY-RELATED WORK PRATICES TO
LECTRICITY (EL) $ \begin{array}{c c c c c c c c c c c c c c c c c c c $		60 Hz, 3-Ph WITH 40A MIN. CIRCUIT	1-1/4 in [35 mm]	28.5 A	40 A	 WIRING ON THE EQUIPMENT TERMINATES AT A JUNCTION BOX. WIRING BETWEEN JUNCTION BOX AND BUILDING SERVICE LINES ARE NOT SUPPLIED BY STERIS. DISCONNECT SWITCHES WITH OFF POSITION LOCKOUT (SUPPLIED BY OTHERS) MUST BE
(EL) $\begin{array}{c c c c c c c c c c c c c c c c c c c $			1-1/4 in [35 mm]	35 A	50 A	EQUIPMENT. 6. STERIS RECOMMENDS A LIGHT IN SERVICE
380-400V 1-1/4 in [35 mm] 19 A 30 A 60 Hz, 3-Ph 1-1/4 in [27 mm] 19 A 30 A 380-400-415V 1 in [27 mm] 18.5 A 30 A			1-1/4 in [35 mm]	16.5 A	30 A	
50 Hz, 3-Ph 1-1/4 in [35 mm] 18.5 A 30 A			1-1/4 in [35 mm]	19 A	30 A	
			1-1/4 in [35 mm]	18.5 A	30 A	
STERIS	STEF	RIS {	AMS		HP SINGLE-	CHAMBER WASHER/DISINFECTOR
			SIZE: SCALE:	DB	AWN BY:	DRAWING NUMBER: PART NUM

Released UTILITY REQUIREMENTS CHART								
UTILITY	PARAMETER	REQUIREMENT		NOTES				
VENTILATION EXHAUST (EX) OPTIONAL	CONNECTION SIZE	3 in [76 mm] OUTSIDE DIAMETER		1. NOT REQUIRED WITH NON VENTED UNIT. 2. STERIS REQUIRES CORROSION-RESISTANT AND WATER-TIGHT DUCT:				
	PRESSURE RANGE	1/2 in [50 mm] VACUUM AT CONNECTION		- MIN OPERATING TEMPERATURE 210 °F [99 °C] - SLOPED TOWARDS THE WASHER AND NO DEAD LEGS				
	OPERATING FLOW RATE	60 SCFM [1.7 m³/min]		- INSTALL DRAIN PART AT LOWEST POINT NEAR UNIT 3. EXHAUST FAN NORMALLY OPEN-AUXILIARY CONTACTS IS AVAILABLE TO SUPPLY A SIGNAL TO THE FACILITY HVAC				
	TEMPERATURE RANGE	MAX. 240 °F [116 °C]	CONTROL SYSTEM WHENEVER THE WASHER VENTILATION EXHAUST FAN IS IN OPERATION.					
		PHYSICAL SPE	CIFI	CATIONS				
SHIPPING	DIMENSION W x H x L	50 in x 91 in x 42 in [1270 mm x 2311 mm x 1067 mm]	2. PE	VELING FEET ARE PROVIDED FOR PROPER INSTALLATION.				
SHI	PPING WEIGHT	1268 lb [575 kg]	UN - I	IIS EQUIPMENT IS DESIGNED TO GIVE OPTIMAL RESULTS IDER THE FOLLOWING CONDITIONS: NDOOR USE ONLY;				
OPERATING	G DIMENSION W x H x L	42 in x 80.75 in x 32 in [1067 mm x 2051 mm x 813 mm]	ד - א - ד	ALTITUDE OF OPERATION UP TO 6562 ft [2000 m]; TEMPERATURE OF 41 TO 104 °F [5 to 40 °C]; MAXIMUM RELATIVE HUMIDITY IS 80% FOR TEMPERATURE UP TO 88 °F [31 °C], DECREASING LINEARLY TO 50% RELATIVE				
	RATING WEIGHT ER AND FULLY LOADED)	1254 lb [569 kg]	- F	HUMIDITÝ AT 104 °F [40 °C]; POLLUTION DEGREE 2: EQUIPMENT MUST BE INSTALLED IN AN ENVIRONMENT WHERE NORMALLY ONLY NON-CONDUCTIVE POLLUTION OCCURS BUT WHERE OCCASIONAL, TEMPORARY				
	AGE FLOOR LOAD ASHER FOOTPRINT	0.93 psi [6.43 kPa]		CONDUCTIVITY CAUSED BY CONDENSATION CAN BE EXPECTED AS DETERMINED ACCORDING TO INTERNATIONAL STANDARD EN/IEC 61010-1).				
AT WA (3 in [76.2 r	K. FLOOR LOAD SHER FOOT PADS mm] DIAMETER PADS)	67 psi [462 kPa]	OF	ERIS ASSUMES NO RESPONSIBILITY FOR CHANGES MADE TO, R FAILURE TO OBSERVE THE SPECIFICATIONS ON EQUIPMENT RAWING AND NOTE PAGES. SPECIFICATIONS AND				
A-WEIG	IOISE LEVEL: HTED EQUIVALENT DUND PRESSURE LEVEL	60.6 dB(A) CALCULATED AS DESCRIBED IN ISO 3746.	DESCRIPTIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.					
OPENING AREA FROM 46.5 in ² [300 cm ²] CLEAN SIDE TO SOILED SIDE *(NOTE 4)			4. OPENING AREA CAN BE REDUCED TO 13 in ² [84 cm ²] WITH INSTALLATION OF AIR MANAGEMENT PANELS ACCESSORY (FD352)					
CHAMBER DIMENSION W x H x L VOLUME 26.5 in x 26.25 in x 25.5 in [673 mm x 667 mm x 648 mm] 10.3 ft³ [0.29 m³]								
				DSS AT 75 °F [24 °C] S OPERATION				
		N-VENTED UNIT UT ACU-RINSE RES.		VENTED UNIT (OPTIONAL) WITHOUT ACU-RINSE RES.				
CLEAN SIDE	E	2049 Btu/h [600 W]		2049 Btu/h [600 W]				
SOILED SIDE	6557 Btu/h [1920 W]			4747 Btu/h [1390 W]				
TOTAL	8606 ± 854 Btu/h 6796 ± 854 Btu/h [2520 ± 250 W] [1990 ± 250 W]							
ON DISINFECT	FION TIME AND TEMPERAT	URE, DRYING TIME AND TEMPE	RATU	NLOADING OPERATIONS. "TOTAL" WILL VARY DEPENDING RE AND USE RATE OF UNIT. ADDED TO THE TOTAL HEAT LOSS OF THE WASHER:				
STE	EQUIPMENT DRAWING OF AMSCO® 7052HP SINGLE-CHAMBER WASHER/DISINFECTOR STEAM HEATED, W/O ACU-RINSE RES., UNIT FLUSH TO WALL							
Corpor	ration A	SCALE: DRAWN BY: Jean Ta		DRAWING NUMBER: PART NUMBER				
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AMSCO® 7052HP SINGLE-CHAMBER WASHER/DISINFECTOR

APPLICATION

The AMSCO 7052HP Single-Chamber Washer/ Disinfector with touch screen control is intended for use in the cleaning and intermediate-level disinfection of soiled reusable simple hard-surfaced rigid surgical instruments (such as forceps and clamps), utensils (such as bedpans and urinals, trays, bowl, basin, kidney dishes), rubber and plastic goods, theatre shoes and other similar and related articles found in healthcare facilities.

DESCRIPTION

The AMSCO 7052HP Single-Chamber Washer/ Disinfector is a cabinet-type mechanical washer that includes:

- · Color touch screen control system and visual progress indicator
- Audible warning system with adjustable volume
- Space saving, power vertical sliding doors
- Eight factory-loaded (Instruments, Orthopedic Instruments, Utensils, Plastic Goods, Rigid M.I.S., Anesthesia / Respiratory Goods, Gentle and Decontamination) and up to 20 Custom cycles. Each cycle is effective, fast, energy efficient and may be customized (within allowed range of parameters) to meet specific operating requirements
- LED status indicator lighting
- Compact space saving footprint
- Conforms to seismic building code requirements
- Patented spray arm system providing entire ٠ chamber coverage
- 180 degree reverse installable



(Typical - details may vary.)

STANDARDS

The AMSCO 7052HP Single-Chamber Washer/Disinfector complies with the following standards:

As certified by Intertek:

- CAN/CSA-C22.2 No. 61010-1, 3rd Edition (R2017)
- CAN/CSA-C22.2 No. 61010-2-040 2nd Edition Dated 07/01/2016
- UL 61010-1, 3rd Edition (2012-05-11)
- The Selections Checked Below Apply To This Equipment

POWER*

- □ Steam-Heated Unit
- Electric-Heated Unit

VOLTAGE*

- 200 to 208 V, 60 Hz (Steam)
- 200 to 208 V, 50 Hz (Steam) □ 380 to 400 V, 60 Hz
- □ 380 to 415 V, 50 Hz
- □ 460 to 480 V, 60 Hz

LANGUAGE PACKAGE

- French (FD355)
- Spanish (FD356)
- German (FD357)
- Italian (FD358)
- □ Japanese (FD383)
- Polish (FD384)
- Careful consideration must given to voltage selection prior to ordering. Later changes require substantial field modification
- Refer to SD867 for Material Handling Accessories. Refer to 10726323 for AMSCO[®] Top Enclosure Panels Accessories.

Refer to SD857 for SCS Conveyor System Accessories. Refer to 10370003 for ATLAS WAV System Accessories

ACCESSORIES[†]

- □ Impact Printer (FD094)
- □ Seismic Tie-Down Kit (FD354)
- □ Condensate Return To Drain (FD353)
- □ Two-Level Manifold Rack (FD74-800)
- Two-Level Manifold Rack with Equal Space (FD79-100)
- □ Three-Level Manifold Rack (FD74-900)
- Four-Level Single-Chamber Manifold Rack (FD75-000)
- □ Four-Level Manifold Rack (FD75-100)

- □ Multi-Function Rack for Small Items (FD75-600)

- □ Transfer Cart Adapter (FD209)
- Set of Dry Contacts (FD362)
- Handheld Bar Code Reader (FD363)
- □ Conductivity Probe (FD350)
- □ Additional Wall Flange (FD351)

ACCESSORIES (CONT'D)[†]

- □ Installation Kit Steam (FD088)
- □ Installation Kit Electric (FD037)
- □ Additional Chemical Pump (FD349)
- Offset Installation Air Management Kit (FD352)
- □ IQ-0Q-PQ Protocols (FD359)
- Machine Identifier (11000866)
- Drain Acu-CoolDown (FD361)
- ConnectAssure Technology for Data Export (CAT3030)
- □ ProConnect[®] Technical Support Services (Remote Monitoring, Priority Technical Support, Customer Care Center Access, Equipment Performance Reports). Available in U.S. and Canada only. (GP09-167)

OPTIONS

- □ Acu-Rinse Reservoir (FD000054)
- Acu-Wash Reservoir (FD000055)
- □ 40-Amp Min Circuit Protection (FD000056)
- RAS Cycle (FD000057)

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Location(s)_

- Thermal Printer (FD012)

 - □ Five-Level Manifold Rack (FD75-200)
 - □ Multi-Function Rack for Large Items (FD75-500)

 - General Purpose Basket (FD77-100)
 - □ RAS 12 Rack (FD256)

□ Self Docking Transfer Cart (FD199)

Governing Directive for the affixing of the CE mark:

- Medical Devices Directive 93/42/EEC as amended by 2007/ 47/EC
- Machinery Directive 2006/42/EC

Standards Applied to Demonstrate Conformity to the Directive:

- IEC 61010-1 3rd Edition (2012-05-11), EN 61326-1, 2013, IEC 61326-1 Second Edition (July 2012) and IEC 61010-2-040:2015
- EN ISO 15883-1:2009+A1:2014, ANSI/AAMI ST15583-1:2009 and CAN/CSA-Z15883-1:09 (R2019) Washer-Disinfectors – General Requirements, Definitions and Tests
- EN ISO 15883-2:2009, ANSI/AAMI ST15583-2:2013 and CAN/CSA-Z15883-2-09 (R2019) Requirements and Tests for Washer-Disinfectors Employing Thermal Disinfection for Surgical Instruments, Anesthesia Equipment, Holloware, Utensils, Glassware, etc.

SIZE (W X H X L)

Exterior dimensions:

• 42 x 80-3/4 x 32" (1067 x 2051 x 813 mm)

Interior chamber dimensions:

• 29-1/2 x 29-1/4 x 26-1/2" (749 x 743 x 673 mm)

Load height:

• 31" (787 mm) above finished floor

FEATURES

Vertical sliding power door:

- Door is constructed of double pane tempered glass to allow operator to view chamber interior with door closed.
- Color LED light illuminates top portion of each door to indicate machine status.
- Door is pneumatically activated using touch screens located on the control panel (one each side of unit) and is equipped with a built-in safety system.
- Each door is mounted on a compressed seal that reduces heat loss and increases heating capability.
- If a power failure occurs, door can be opened manually. A door interlock feature is provided to prevent crosscontamination.
- Unit can be configured in single- or double-door operation.

Stainless-steel pump is powered by a dual-speed motor. High pump speed provides equivalent capacity of a 14 hp (10.4 kW) motor, 165 U.S. gal/min at 196 ft (625 L/min at 60 m) head pressure. Low pump speed provides equivalent capacity of a 3.5 HP (2.6 kW) motor, 90 U.S. gal/min at 46 ft (341 L/min at 14 m) head pressure. Pump impeller is mounted directly on motor shaft and does not require additional bearings. Pump motor is equipped with a drip-proof frame, magnetic starter, overload protection and sealed bearings (not requiring periodic lubrication).

Pump, spray system and all recirculating piping are of **stainless-steel construction**.

Wash chamber:

- Constructed of 16-gauge, 316L stainless steel (No. 4 finish), argon-welded and polished. Chamber is of sanitary-type design (horizontal fixed surfaces are sloped, without overlapping sheet metal) for complete drainability and reducing hard-to-clean locations.
- **Single-walled, insulated construction** of chamber exterior reduces heat loss and noise level to the work area.
- Rotary spray assemblies are positioned (one at top and one at bottom of chamber, each measuring 24-3/8" [620 mm] long) to reach all load surfaces. Spray assemblies are easily removable without tools to aid in cleaning and maintenance.

Sump:

- Constructed of 316L stainless steel with 7.2 gal (27 L) capacity with removable stainless-steel filter preventing debris from entering pump and piping system.
- Heating coil (steam or electric) at the bottom of the wash chamber (sump) raises and maintains water temperature up to 185°F (85°C) during the Wash phase and up to 194°F (90°C) during the Thermal Rinse phase.

Chemical peristaltic injection pumps:

- Pre-Programmed cycles and pumps are optimized to use Prolystica[®] Ultra Concentrate (PUC) HP chemicals. Each ultra concentrated product is 10 times the concentration of a traditional product; so, 10 times less chemical is injected per cycle.
- Unit comes with one enzyme and one detergent injection peristaltic pump which automatically add a selected quantity of chemical from 1/40 to 2 oz/gal (0.2 to 16 mL/L).
- One pump is dedicated to automatically add a selected quantity of lubricant during Thermal Rinse phase.
- Pumps are positioned near chemical containers. A low-level sensor is included to indicate when detergent level is low, or when insufficient chemical is available for next cycle.
- 100' (30 m) extension tubes are included to pump chemicals from canisters installed in a remote location to unit.
- Control monitors volume of chemicals injected and indicates if this parameter meets specified criteria during all specific phases.

Top Utility Connections (except drain connections) facilitate installation. All utilities (including vent, steam, electric, water and compressed air) are connected on washer top. Top water injection gives a secure air gap of 31-1/2" (800 mm). Backflow preventers are not required for hot and pure water.

Front Service Panels provide easy access to piping, valves, electrical components and wiring. Unit can be configured as either a Vented System that exhausts chamber vapors to building exhaust system through 3.0" (76 mm) OD vent connection located at top of washer or as a Non-Vented Drying System where chamber vapors are exhausted through cold water condenser to facility room.

Drying System uses uniquely designed four-sided inflow drying pattern to produce high-flow air curtain. Air curtain provides broad, efficient, drying within wash chamber. Recycled and non-

recycled air is manifolded and circulated through piping and accessory providing energy efficient system while ensuring complete chamber air coverage. Fresh air is drawn through a HEPA filter. Drying system includes a 3 hp (2.2 kW) blower, to remove vapor from chamber prior to opening doors, and three electric heaters totaling 11.4 kW to heat and maintain chamber air temperature. When Acu-Drying is selected, drying time self-adjusts to meet drying time of loaded rack and items.

Pure Water Stainless-Steel Supply Valve is supplied on washer/disinfector so **Pure Water Rinse Supply** may be used with factory programmed cycles and optional Acu-Rinse Reservoir.

Drain Discharge Cool Down ensures water drained at end of each phase, from chamber sump to building drain system, does not exceed 140°F (60°C). If water temperature in sump is higher than 140°F (60°C), cold water is automatically added to reduce temperature of water discharged into building drain system.

Sampling Valve is supplied in washer/disinfector recirculation piping for North American Customers that are not able to install sampling valves on facility supply lines near washer/disinfector.

Barrier Wall Kit Flanges for one wall (clean side) installation come standard. An optional kit to enclose second wall (dirty side) is also available (FD351).

Cycle Graph enables monitoring of injection volume, water circulating pressure and water temperature during a cycle. Graphs are visible during cycle and can also be displayed at cycle completion. Data can be exported using ConnectAssure Technology or USB port.

CONTROL SYSTEM

The AMSCO 7052HP Single-Chamber Washer/Disinfector is equipped with a touch screen Customer interface. This 8.4" (213 mm) color touch screen is mounted at eye level beside chamber door (both sides of unit) and tilted for better visibility, allowing easy monitoring of all wash cycles. Control system monitors and controls all phases of each programmed cycle.

The control system features:

- Cycle selection is simplified through use of lcons representing devices and cycle confirmation (on-screen) to ensure correct cycle is selected.
- Service mode for preventive maintenance testing and to facilitate troubleshooting.
- Built-in service diagnostic program to permit system calibration and verification of component operations.
- Security lock-out feature that enables cycles and temperatures to be locked and unchangeable without proper access code.
- Cycle data is stored as a protection against power disruption. Data may be downloaded from controller using supplied USB ports.
- Permits operator to monitor current washer/disinfector status (including current chamber temperature, circulating pressure and time remaining in phase).
- Indicates any abnormal conditions with audible and visual alarm system.

CYCLE DESCRIPTION

ADVISORY NOTE: STERIS does not intend, recommend or represent in any way that this AMSCO 7052HP Single-Chamber Washer/Disinfector be used for the terminal disinfection or sterilization of any regulated medical device. AMSCO 7052HP Washer/Disinfector is intended only to perform an initial step in the processing of soiled, reusable medical devices. If medical devices contact blood or compromised tissues, such devices must be terminally processed in accordance with good hospital practices before each use in human patients.

Once treatment cycle is selected, washer/disinfector automatically processes load through standard phases (additional phases are included in certain treatment cycles depending on unit configuration) as described on Cycle Charts and in supplied Operator Manual.

AMSCO 7052HP Single-Chamber Washer/Disinfector enables Customers to use Dual Wash phase combining PUC HP enzyme and PUC HP detergent in the same filling which accelerates cycle time and reduces water consumption.

Custom cycles are available but must be validated by the Customer (not STERIS responsibility).

SAFETY FEATURES

Vertical chamber doors are equipped with an **obstruction sensor** to detect any door obstruction. If obstruction is present, door automatically opens.

The washer/disinfector is equipped with a **safety lockout feature** so a cycle cannot start unless the door is fully closed. If the door is opened during a cycle, all utility services to chamber are shut off, and the cycle stops.

Door interlock feature is provided to prevent crosscontamination. Door interlock feature allows only one door to be opened at a time whenever power is on. When the cycle is in process, door interlock prevents either door from being opened. Access to the load is then restricted.

Safety stop pushbutton(s), one on the load and one on the unload side, automatically stop all unit operation when pressed.

Building electrical supply disconnect switch must be used to shut off power to the unit before servicing.

ACCESSORIES AND OPTIONS

Printer (FD094 or FD012), if provided, produces an easy-toread printed record of whether load was properly processed at preset temperature, as well as a complete list of alarm and abort in-cycle messages. A paper out LED is included.

Acu-Rinse Reservoir (if equipped) pre-heats Pure Water for Rinse and Thermal Rinse phases significantly reducing cycle times. Constructed of 316L stainless steel.

Acu-Wash Reservoir recovers a portion of water used in Thermal Rinse treatment and stores it for use in Wash treatment of next cycle reducing overall cycle water consumption.

RAS Cycle (Robotic Assisted Surgery Cycle) (FD000057 or FD258) is used with RAS 12 Rack (FD256) for effective cleaning, rinsing, drying and intermediate level disinfection of reusable *da Vinci* EndoWrist X/Xi, S/Si, and Single-Site instruments and staplers.

Steam Condensate Return To Drain (FD353) allows for connection of steam condensate return outlet to drain when steam condensate return line is not available in building. Cold water is also injected in drain piping when condensate return water temperature is too high. Condensate return cool down keeps temperature in drain piping below 140°F (60°C).

Seismic Tie-Down Kit (FD354) includes a seismic report for proper installing and securing of washer to building floor. Unit is designed to comply with seismic building code.

Additional Chemical Pump (FD349; up to two pumps) is available, giving flexibility to wash with neutral process, alkaline process, or to vary chemical used, depending on load type.

Drain Acu-CoolDown (FD361) precisely injects correct amount of potable water into facility drain system, minimizing volume of cold water needed.

Offset Installation Air Management Kit (FD352) controls airflow at top of door assemblies.

ConnectAssure Data Export (CAT3030) exports XML cycle records from equipment to Customer tracking system.

ProConnect® Technical Support Services maximizes operational efficiencies with secure, Internet-based, real-time equipment monitoring. Data from Customer equipment is used by STERIS to provide pro-active Customer alert notifications, technical support and predictive maintenance. (ProConnect Technical Support Services is available in U.S. and Canada only.) Refer to Tech Data sheet SD983, PROCONNECT TECHNICAL SUPPORT SERVICES, for details.

INSTALLATION

The washer/disinfector is designed as a fully enclosed cabinet for freestanding or recessed installation. **Clearance between top** of the unit and the ceiling must be at least 14" (356 mm).

If the system is recessed through one or two barrier walls, stainless-steel barrier flanges are included to provide a finished wall appearance.

Once installed, system is designed to allow for easy access for maintenance purposes.

All configuration modifications are available upon request. Contact STERIS to receive a quotation.

PREVENTIVE MAINTENANCE

Customers are encouraged to contact STERIS concerning our annual maintenance program. Under the terms of the program, preventive maintenance, adjustments and replacement of worn parts are provided on a scheduled basis to help ensure optimal equipment performance and help minimize untimely or costly schedule interruptions. STERIS maintains a worldwide staff of well-equipped, factory-trained technicians to provide these services, as well as on-site installation, training and expert repair services. Contact STERIS for details.

NOTES

- Machine segments (unit is bolted onto a wooden skid) are shipped in one cardboard carton (W x H x L): 50 x 91 x 42" (1270 x 2311 x 1067 mm).
- 2. Customer must ensure the washer/disinfector stands on a noncombustible floor (floor should be level).
- 3. Customer must provide utility connections with shutoff disconnects within 2' (0.6 m) of equipment perimeter and below ceiling deck or purchase Installation Kit from STERIS.
- STERIS recommends vacuum breakers (not provided by STERIS) be installed on service lines, and disconnect switches (with lockout in OFF position; not provided by STERIS) be installed in electric supply lines near equipment.
- 5. For all ventilation ducting from the washer/disinfector, STERIS recommends installation of a dedicated, corrosionproof, flexible watertight duct (3" [76 mm] OD) to the exterior of the building, sloped toward the washer/disinfector.
- 6. Minimum ceiling height for door removal is 94" (2388 mm).
- 7. STERIS recommends illumination of the service area along with providing a convenience outlet for maintenance.
- 8. Noise level of 60.6 dB; Operating weight of 1543 lb (700 kg).
- 9. Unit is shipped with an Operator Manual. Maintenance Manual is available for purchase.
- 10. ConnectAssure Data Export requires an Ethernet drop and Ethernet connection within 10 ft of the equipment. The Customer must supply the network cable.

UTILITY REQUIREMENTS

IMPORTANT: Refer to proper equipment drawing for installation details and specifications:

- Electric-Heated Unit: 10292222, 10292223, 10292224 or 10292225
- Steam-Heated Unit: 10292218, 10292219, 10292220 or 10292221

For Further Information, contact:



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APPLICATION

The STERIS InnoWave PCF Sonic Irrigator is designed to thoroughly clean (remove tissue, blood and other contaminants) a variety of reusable surgical instruments. The InnoWave PCF provides Sonic Irrigation (ultrasonic cavitation) to both the interior and exterior of lumened instruments. The system also uses Power Flush (approximately 44 psi) when instruments are connected to remove debris from the inside channels. This unit is equipped with intermediate level thermal disinfection to ensure instruments are safe for the staff to handle at the end of the cycle.

DESCRIPTION

The InnoWave PCF Sonic Irrigator is a freestanding ultrasonic in a compact stainlesssteel cabinet. The InnoWave PCF contains all needed components to effectively clean lumens (utilizing ultrasonic cavitation in a detergentbalanced wash solution) and reusable surgical instruments prior to sterilization.

The InnoWave PCF is equipped with:

- Sonic Irrigation
- Power Flush
- Deluge Wash
- Thermal Disinfection
- Auto Lid-Locking
- Touch Screen
- Data Capture/Export Capabilities



(Typical only - some details may vary.)

STANDARDS

The InnoWave PCF Sonic Irrigator meets the applicable requirements of the following standards:

- EMC Requirements ISO 61326:2013
- Medical Electrical Equipment BS EN 60601-1-6:2010+A1:2015, ISO 60601-1-2:2007
- ANSI/AAMI/IEC 62336-1:2015
- ANSI/AAMI ST15883-2:2013(R)2015
- IEC 61010-1:2010
- CAN/CSA-C22.2 No. 61010-1:2015 (ed. 3)
- **ISO 15883-1** A_0 **3000** International Standards for Time and Temperature to Meet Thermal Disinfection

The Selections Checked Below Apply To This Equipment

INSTALLATION REQUIREMENTS

- □ Residual Current Device (IW1074)
- □ Seismic Anchoring Kit (IW1046)

ACCESSORIES

- □ 1.0 Gallon Pickup Tube (M10003) Qty: 1
- 2.5 Gallon Pickup Tube (MED8557) Qty: 1
- Elbow Connector (MED3088) Qty: 1
- □ Instrument Organizer (IW1025) Qty: 1
- Si Flush Nozzle Set (IW1005)

BASKETS AND TUBING

- □ Standard Instrument (IW1062)
- □ Xi Multi-Basket (IW1038)
- Qty: 6 Standard or 4 Standard / 2 Stapler Si - Standard (IW1064)
- Qty: 10 Standard
- □ Si Multi-Basket (IW1065)
- Qty: 8 Standard / 2 Stapler

BASKET ONLY

- □ Standard Instrument (IW1008)
- Si Standard (IW1037) Qtv: 10 Standard
- Orthopedic/Heavily Soiled Instrument (IW1006)

TUBING ONLY

- Standard Instrument (IW1066)
- Xi Multi-Basket (IW1039)
- □ Si Standard (IW1017)
- □ Si Multi-Basket (IW1068)
- S/Si Single Site (IW1069)

Item	
Location(s)	

SIZE (W X H X D)

Overall dimensions of a fully equipped ultrasonic:

 34-1/2 x 44-7/32 - 58-21/32 x 26-11/32" (876 x 1123 - 1490 x 669 mm)

Service Access Clearance:

• Minimum 6" (150 mm) sides; 8" (200 mm) rear

Basket/Tray Compatibility:

- Tray holds instruments with dimensions up to 13.3 x 4 x 26.3" (339 x 102 x 668 mm)
- 20 Lumen Instruments
- 44 lb (20 kg) Maximum Load Weight

FEATURES

The InnoWave PCF Sonic Irrigator is wired for operation on 208-220 V (60 Hz, three phase). STERIS supplies all components necessary to obtain a complete working unit ready for installation and connection to facility service lines. The unit includes the following features:

Auto-Tuning Frequencies is ensured by constant power output generators operating between 36 to 40 kHz (depending upon load).

Reflectasonic Technology to improve the life of the tank by reducing pitting (which can occur from ultrasonic activity over time).

Easy-To-Use Touch Screen Control to aid user interaction with the unit.

One Pick-Up Tube provided for a 2.5 gallon bottle of detergent or bottle of lubricant. Right-hand door allows access to chemical storage compartment, where pickup connection is located. Unit uses a float switch in bottle to detect when there is insufficient chemical to run a cycle, then prompts user to replace bottle.

Integrated USB Port comes standard and is accessed through the right-hand chemical storage door.

Operator PINs help to ensure operator safety and facility security. Optional user code is available to require user to enter a four-digit PIN number to unlock the user control panel. A valid PIN entry identifies the user and the operator's number is shown on the cycle printout. There are 80 predefined operator numbers available.

Cycle Monitoring ensures recording of successful cycles and any abnormalities for documentation purposes. During cycle, parameters are reported at key stages of process. On-board cycle log can be download via a USB flash drive. Control is also designed to perform cycle within strict and carefully controlled tolerances. If an unexpected condition occurs during a wash cycle, system aborts cycle and reports an error.

Front Doors and Side Service Access Panels are supplied on unit for ease of any maintenance procedures. Access doors are scratch and dent resistant.

CYCLE DESCRIPTION

The InnoWave PCF Sonic Irrigator has ability to wash up to twenty lumened instruments or up to 44 lb (20 kg) of general surgical instruments. There are four pre-programmed cycles and two open cycles available for customization. Some of these cycles are equipped with Prewash, Wash, Rinse and Disinfection phases tailored to clean a multitude of different loads. During cycle, remaining time for each stage and temperature/pump pressure are shown on the display.

Load Instruments

User loads instruments into basket, places it into unit and presses touch screen to start cycle.

Prewash

Cycle begins with a cold-water fill to mid-level. Spray and irrigation functions operate alternately with pump running for specified time.

Wash

At main wash stage, tank is filled to top level with a cold and hot water mix to attain set temperature. Detergent is also added at this point. To even out temperature, fill all cavities and to mix chemical thoroughly, pump is pulsed on and off. Once tank is full, ultrasonics degas tank by pulsing on and off to remove any dissolved air. A period of irrigation follows to flush any material from inside instruments. Ultrasonics then alternate with irrigation port for set period of time. Water is then drained.

Rinse

Tank is filled to minimum level and heated to setpoint. Unit then alternates between spray and irrigation for pre-defined time. Water is then drained.

For some programs this stage is repeated.

Disinfection

If thermal disinfection is required, machine is then filled to minimum level with hot water (or RO/DI water if available) and heated to pre-set temperature (91°C / 196°F) then spray and irrigation functions operate alternately for three minutes.

Cooling

To disperse chamber vapor, unit opens drain valve and sends cold water to back of tank for several minutes.

Unload

User touches screen to acknowledge cycle completion. Control unlocks lid and allows basket to be removed.

PREVENTIVE MAINTENANCE

Customers are encouraged to contact STERIS concerning our annual maintenance program. Under the terms of the program, preventive maintenance, adjustments and replacement of worn parts are provided on a scheduled basis to help ensure optimal equipment performance and help minimize untimely or costly schedule interruptions. STERIS maintains a worldwide staff of well-equipped, factory-trained technicians to provide these services, as well as on-site installation, training and expert repair services. Contact STERIS for details.

NOTES

- 1. Pipe sizes shown indicate terminal outlets only. Building service lines (not provided by STERIS) must supply the specified pressures and flow rates.
- 2. STERIS recommends a dedicated, grounded electrical circuit be provided for each unit. Do NOT use extension cord and plug.
- 3. Approximate operating weight:
 - » Operational (dry) 331 lb (150 kg).
 - » Shipping 479 lb (217 kg).
- 4. Unit must be mounted on a hard, level, non-combustible surface.
- 5. STERIS recommends as a minimum a 6 x 6" deep floor sink with a 2" outlet.

CHEMISTRY

The following STERIS Chemistries are recommended for use in this unit:

Prolystica® 2X Concentrate Enzymatic Presoak and Cleaner, 4 x 1.0 Gallon (1C3308)

Prolystica® 2X Concentrate Enzymatic Presoak and Cleaner, 2.5 Gallon (1C3310)

Prolystica® 2X Concentrate Neutral Detergent, 4 x 1.0 Gallon (1C3208)

Prolystica[®] 2X Concentrate Neutral Detergent, 2.5 Gallon (1C3210)

Prolystica[®] 2X Concentrate Enzymatic Automated Detergent, 2.5 Gallon (1C2210)

Prolystica[®] 2X Concentrate Neutral automated Detergent, 2.5 Gallon (1C2110)

ULTRASONIC PERFORMANCE

Ultrasonic Performance: >48 Watts/gal

Ultrasonic Frequency: 38-40 kHz

Ultrasonic Bath Size: Large enough to submerge devices with at least 1" (25 mm) clearance around all ultrasonic edges.

UTILITY REQUIREMENTS

Refer to Operator Manual for installation details and specifications.

Electrical*

Voltage: 200-230 Vac, 60 Hz, 3-Phase + PE.

Power: 10 kW.

Facility Current Capacity: \geq 24A per Phase.

Facility MCB and Disconnect Switch Current Rating: 32A.

Drain

3/4" Stainless-Steel Barb Fitting. Drain hose supplied with Unit.

NOTE: Drain entry and entire drain hose must be less than 20" (508 mm) above ground level, measured from Unit rear middle. Drain pipe ID must be at least 4".

Hot Water

3/4" Stainless-Steel BSP; 30 - 70 psi (2-5 bar); 122-140°F (50-60°C).

Cold Water

3/4" Stainless-Steel BSP;30 - 70 psi (2-5 bar); 41-86°F (5-30°C).

RO/DI Water (Optional)

3/4" Stainless-Steel BSP;30 - 70 psi (2-5 bar); 41-140°F (5-60°C).

Flow Rate

3 - 8 gal/min

Heating Rate

5°C/min (9°F/min)

* Units must be ordered specifying required voltage and phase.

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APPLICATION

The AMSCO line of pass-through windows come in manual and automated configurations. The Automated windows have two configurations: CSSD/MDR and ENDO.

DESCRIPTION

The AMSCO Pass-Through Window is an in-line vertical lift window with a single operable (movable) panel and a single non-operable (fixed) panel, an integral continuous stainless steel shelf. The automated pass-through windows are equipped with a microwave no-touch sensor plate for opening and closing. All windows are fully assembled and ready to install.

STANDARD FEATURES

The AMSCO Pass Through Window is constructed from anodized aluminum extrusions, close-tolerance moving parts and tempered glass. All frames have a clear anodized aluminum finish, fastened with screws, joints are sealed and ¹/₄" (6.4mm) clear tempered glass is dry glazed. All moving panels are guided using industry proven dual rope and counterbalance system.

The Shelf has been developed specifically for the needs of this window. The shelf extends 25" (635mm) on either side of the window along the full width of

the window (CSSD Models) or 4" (102mm) on the decontamination side and 25" (635mm) on the clean side of the window (ENDO Models). The continuous shelf provides a smooth surface through the window. The shelf is secured by two stainless steel brackets under the shelf on each side of the window (total of four brackets). The manual window is available in the ENDO configuration.

The Automated Window features automated opening and closing activated by a microwave, no-touch, sensor plate located on each side of the window at the edge of the shelf. Operation of the motorized window ensures that opening and closing of the window is hands-free.

STANDARDS

The AMSCO Automated Pass-Through Window meets the applicable

requirements of the following standards:

- Underwriters Laboratories (UL) Standard 61010.
- Canadian Standards Association (CSA) CAN/CSA-22.2 No. 68.

The Selections Checked Below Apply To This Equipment

CSSD MODELS*

- PTWAMDR1100 (Automated)
 Window Width = 28" (711mm)/Height = 45" (1143mm), 120V
 Shelf extends 25" on either side of window
- PTWAMDR2100 (Automated)
 Window Width = 34" (864mm)/Height = 45" (1143mm), 120V
 Shelf extends 25" on either side of window
- PTWAMDR3100 (Automated)
 Window Width = 40" (1016mm)/Height = 45" (1143mm), 120V
 Shelf extends 25" on either side of window

ENDO MODELS

- PTWAEND01100 (Automated)
 Window Width = 28" (711mm)/Height = 45" (1143mm), 120V
 Shelf extends 25" on one side of window and 4" on other side.
- PTWAEND02100 (Automated)
 Window Width = 34" (864mm)/Height = 45" (1143mm), 120V
 Shelf extends 25" on one side of window and 4" on other side.

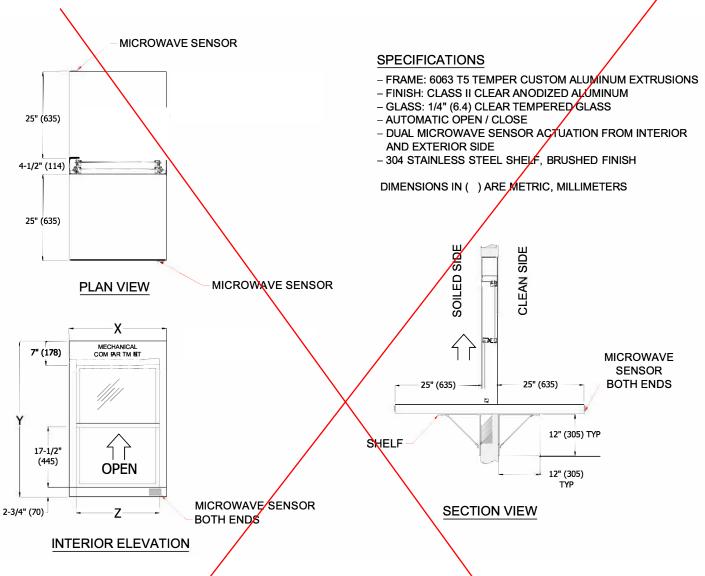
- PTWAEND03100 (Automated) Window Width = 40" (1016mm)/Height = 45" (1143mm), 120V Shelf extends 25" on one side of the window and 4" on other side.
- PTWMEND01200 (Manual)
 Window Width = 28" (711mm)/Height = 45" (1143mm), 120V
 Shelf extends 25" on one side of window and 4" on other side.
- PTWMEND02200 (Manual)
 Window Width = 34" (864mm)/Height = 45" (1143mm), 120V
 Shelf extends 25" on one side of window and 4" on other side.
- PTWMEND03200 (Manual)
 Window Width = 40" (1016mm)/Height = 45" (1143mm), 120V
 Shelf extends 25" on one side of the window and 4" on other side.

Item	
Location(s)	

AMSCO PASS-THROUGH WINDOW

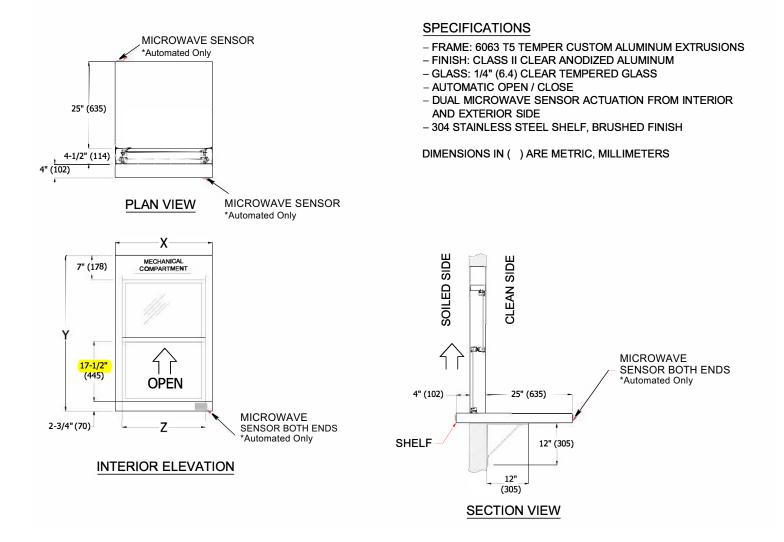


MDR/CSSD Models



FINISHED OPENINGS, SERVICE WIDTHS & WEIGHTS FOR MDR / CSSD WINDOWS								
UNIT	X FINISHED OPENING WIDTH	Y FINISHED OPENING WIDTH	Z SERVICE WIDTH	SHIPPING WEIGHT (LBs,Kg)	OPERATING WEIGHT (LBs, Kg)			
PTWAMDB1100	28-1/4" (718mm)	45-1/4" (1149mm)	24" (610mm)	315, 142	270, 122			
PTWAMDR2100	34-1/4" (870mm)	45-1/4" (1149mm)	30" (762mm)	335, 151	280, 127			
PTWAMDR3100	40-1/4" (1022mm)	45-1/4" (1149mm)	36" (914mm)	375, 170	300, 136			
/	<u>.</u>	<u>.</u>						

ENDO Models



FINISHED OPENINGS, SERVICE WIDTHS & WEIGHTS FOR ENDO WINDOWS								
UNIT	X FINISHED OPENING WIDTH	Y FINISHED OPENING WIDTH HT	Z SERVICE WIDTH	SHIPPING WEIGHT (LBs,Kg)	OPERATING WEIGHT (LBs, Kg)			
PTWAEND01100 PTWMEND01200	28-1/4" (718mm)	45-1/4" (1149mm)	24" (610mm)	280, 127	250, 113			
PTWAEND02100 PTWMEND02200	34-1/4" (870mm)	45-1/4" (1149mm)	30" (762mm)	300, 136	260, 118			
PTWAENDO3100 PTWENDO3200	40-1/4" (1022mm)	45-1/4" (1149mm)	<mark>36" (914mm)</mark>	350, 159	275, 125			

For Further Information, contact:



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