



Cut Sheet Summary

GBA Id **23724**

Item **Soak Station, GUS, Countertop**

Manufacturer **PCI Medical**

Model **G32-E**



Image shown may vary in color or finish from actual item to be purchased.

Physical	Electrical	Plumbing/Mechanical	Responsibilities
Height ("): 27.00	<input type="checkbox"/> Multiple Elec Reqs	<input type="checkbox"/> Medical Gas	Furnished by: Owner
Width ("): 36.00	Voltage: 120	<input type="checkbox"/> Compressed Air	New Install: Owner Logistics Vendor
Depth ("): 27.00	Hertz: 60	<input type="checkbox"/> External Exhaust	Existing Install: N/A
Weight (lb): 110	Phase: 1	<input type="checkbox"/> Ventilation	Deinstall/ Move: N/A
Operating Wt (lb):	Amps: 1	<input type="checkbox"/> Building Steam	<input type="checkbox"/> Contractor Rough-In
	Watts:	<input type="checkbox"/> Integral Steam Generator	
	Volt Amps:	<input type="checkbox"/> Cold Water	
Installation / Placement	Breaker Size:	<input type="checkbox"/> Hot Water	Notes
Placement: Countertop	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Treated Water	<input type="checkbox"/> Critical Path Item
<input type="checkbox"/> Component System	<input checked="" type="checkbox"/> Emergency	<input type="checkbox"/> Drain	<input type="checkbox"/> Refer to Vendor Dwg
Seismic Anchorage	<input type="checkbox"/> Hard-wired <input checked="" type="checkbox"/> Power Cord	BTUs/Hr:	<input checked="" type="checkbox"/> See Mfgr Cut Sheets
Type: Countertop	NEMA:		<input checked="" type="checkbox"/> Dimensions may be rounded; see vendor sheets
Pre-apprvl #:	Network Connection:		N/A Responsibilities = No Qty (New /Existing)
	<input type="checkbox"/> Cable TV		
	<input type="checkbox"/> Analog Phone Line		
	<input type="checkbox"/> Remote Alarm		

Comments:

No Anchorage Details Available. Suggest "L" Bracket Mounting To Counter.

The information provided on this summary sheet is based on the data contained on the manufacturer cut sheet(s) that follow. It is the responsibility of the recipient to review the manufacturer's cut sheets for complete information. All specifications included in this document are subject to change without notice by the manufacturer.

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GUS® DISINFECTION SOAK STATIONS FOR LARGE SCOPES ELEVATED SERIES

FEATURES:

- Meets Joint Commissions & OSHA requirements
- Two soak/rinse trays in various sizes
- Removes vapors & protects staff
- No ductwork or plumbing required
- Built-in chemical transfer pump
- Built-in GFCI



GUS Model G32-E
Shown Above

The GUS® Elevated Series gives extra working height for an easier disinfection process.

An automatic two-speed blower increases airflow when the lower door is open. When the door is closed the unit is in its energy saving mode. The built-in disposal system allows for safe and hands free transfer of used disinfectant. Three widths available: 27", 33.25" and 40"

SPECIFICATIONS:

Model	G25-E	G32-E	G36-E
Face Velocity (FPM) (lower door open & trays in place)	58	50	70
Electrical (115V 50/60Hz)	1.0A	1.0A	2.0A
Exterior Dimensions*			
Width	27"	33.25"	40"
Depth	26.5"	26.5"	26.5"
Height	25"	25"	25"
Weight (lbs)	90	110	150

*Allow 2" additional space on right for the power cord and 1.5" above the unit for the clean air exhaust.
UL and CE approved. 115/230 V models available.

OPTIONS:



Glute Out® Neutralizer



Spill Kits



Trays



Optional Carts



PCI Medical Inc. | 8 Inspiration Lane | Chester, CT 06412
Tel: USA (800) 862-3394 | International (860) 526-2862 | Fax: (860) 526-3081 | Email: info@pcimedical.com



Cut Sheet Summary

GBA Id **11831**

Item

Reprocessor, Endoscope

Manufacturer

Advanced Sterilization Product

Model

EVOTECH



Image shown may vary in color or finish from actual item to be purchased.

Physical	Electrical	Plumbing/Mechanical	Responsibilities
Height ("): 58.00	<input checked="" type="checkbox"/> Multiple Elec Reqs	<input type="checkbox"/> Medical Gas	Furnished by: Owner
Width ("): 46.00	Voltage: 208	<input type="checkbox"/> Compressed Air	New Install: Contractor
Depth ("): 33.00	Hertz: 60	<input type="checkbox"/> External Exhaust	Existing Install: N/A
Weight (lb): 500	Phase: 3	<input type="checkbox"/> Ventilation	Deinstall/ Move: N/A
Operating Wt (lb): 578	Amps:	<input type="checkbox"/> Building Steam	<input checked="" type="checkbox"/> Contractor Rough-In
	Watts: 9000	<input type="checkbox"/> Integral Steam Generator	
	Volt Amps:	<input checked="" type="checkbox"/> Cold Water	
Installation / Placement	Breaker Size: 30	<input type="checkbox"/> Hot Water	Notes
Placement: Freestanding	<input checked="" type="checkbox"/> Dedicated	<input checked="" type="checkbox"/> Treated Water	<input checked="" type="checkbox"/> Critical Path Item
<input type="checkbox"/> Component System	<input type="checkbox"/> Emergency	<input checked="" type="checkbox"/> Drain	<input type="checkbox"/> Refer to Vendor Dwg
	<input type="checkbox"/> Hard-wired <input checked="" type="checkbox"/> Power Cord	BTUs/Hr: 7,000	<input checked="" type="checkbox"/> See Mfgr Cut Sheets
Seismic Anchorage	NEMA: L15-30		<input checked="" type="checkbox"/> Dimensions may be rounded; see vendor sheets
Type: Floor	Network Connection: Wired		N/A Responsibilities = No Qty (New /Existing)
Pre-apprvl #:	<input type="checkbox"/> Cable TV		
	<input type="checkbox"/> Analog Phone Line		
	<input type="checkbox"/> Remote Alarm		

Comments:

Contractor To Install Bracket For Water Filtration System.

The information provided on this summary sheet is based on the data contained on the manufacturer cut sheet(s) that follow. It is the responsibility of the recipient to review the manufacturer's cut sheets for complete information. All specifications included in this document are subject to change without notice by the manufacturer.

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EVOTECH[®]

Endoscope Cleaner and Reprocessor (ECR)

INSTALLATION REQUIREMENTS AND PRODUCT SPECIFICATIONS



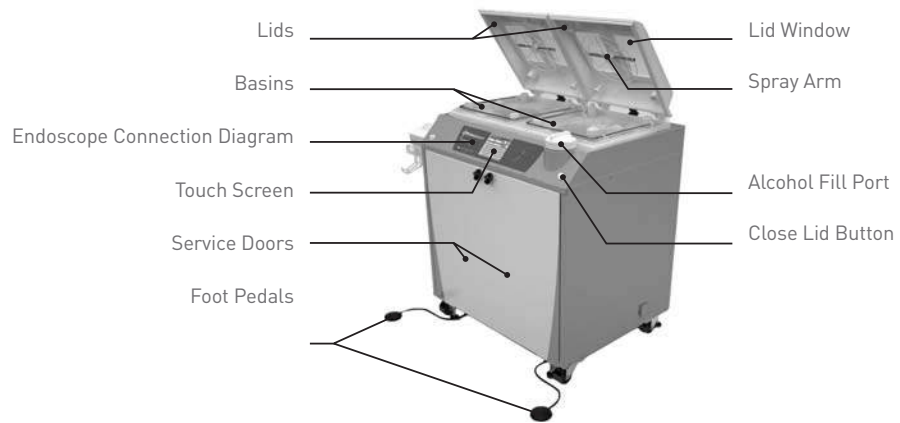
EVOTECH® ECR

Installation Requirements and Product Specifications

System Overview

The EVOTECH® Endoscope Cleaner and Reprocessor (ECR) is the first system to eliminate the labor-intensive manual cleaning of endoscopes*. With its evolved technology, the EVOTECH® ECR helps ensure compliance, consistently clean endoscopes, and safety for staff and patients. Plus, it automatically detects leaks, eliminating the inconsistencies of manual inspection. Integrated MEC monitoring also prevents staff exposure to high-level disinfectant and saves money by removing the need for test strips. All of this enhanced automation helps save time, increases productivity, and frees staff to focus on patient care.

*Does not eliminate bedside precleaning in procedure room and no manual cleaning is required when selecting a cycle that has a wash stage.



EVOTECH® ECR

Installation Requirements and Product Specifications

System Description	The EVOTECH® ECR is composed of two independently operated sides, each with a basin. Both processing basins are operated using the control panel. The EVOTECH® basins can operate asynchronously; one basin can be idle while the other is in use. The primary components of the system are as follows:
Processing Basins	One endoscope is loaded into each processing basin. The basin contains channel connectors for connecting the tubing sets to an endoscope.
Basin Lids	Each basin lid features a seal and a rotating spray arm. Each lid also has a window, allowing you to view the activity in the basin.
Service Doors	A door on each side of the front panel can be opened to change filters, and replenish detergent and disinfectant. The service doors can be locked so that only authorized personnel have access to the detergent, disinfectant, and bacterial retentive filters.
Alcohol Fill Port	The alcohol fill port is used to fill the alcohol reservoir with 70% isopropyl alcohol. Alcohol facilitates drying of the endoscope channels. The alcohol rinse is selectable on the control panel. The system notifies you when this solution needs to be replenished.
Barcode Reader (Optional)	The barcode scanner allows you to quickly enter information.
Connection Diagram	Information on how to connect an endoscope is shown by a generic endoscope diagram located on the front of the unit.
Touch Screen	The system is operated by means of a touch screen in the center of the top front panel.
Printer Support	The printer rests on either side of the system on the provided support. The printer can also be located on a nearby shelf.
Network Connection Port	The network connection port is on the rear of the unit.
Basins per System	2
Scopes per Basin	1
Scope Compatibility	Submersible flexible fiber optic and video endoscopes suitable for high-level disinfection
Where Marketed	United States, Canada, New Zealand, Australia, Singapore
FDA Clearance	Yes
Configuration	Floor, Stand-alone
Mobility	Moveable, 4 casters, 4 levelers
Standard of Care	High Level Disinfection
Positive Air Pressure Air Capability	Yes, to all internal channels
Self-Disinfect Cycle	Yes
Information Input/Output	<hr/>
Display	6.4-inch Color VGA
Hard Copy	Printout
Control Interface	Microprocessor
Input	Touch Screen

EVOTECH® ECR

Architecture and Space

Architecture/Space

Height (w/ Lid Closed)	46" (117 cm)
Height (w/ Lid Open)	58" (147 cm)
Width (w/out Printer)	37" (94 cm)
Width (w/ Printer)	46" (116 cm)
Depth	33" (84 cm)
	Leave at least approximately 3 inches of space between the wall and the back of the EVOTECH® ECR to ensure adequate space for the expansion tank. See Exhibit 2
Weight (Empty)	500 lbs (226.8 kg)
Weight (Operating)	578 lbs (262 kg)
Basin Size	18.25" × 19.75" × 5.75" (46.4 cm × 50.2 cm × 14.6 cm)
Service Access Area	Minimum access space around the System when in position for service is 36" behind, in front and to either the left or right side. Note: The EVOTECH® ECR is on castors and can be moved for servicing.
Earthquake Restraint	Unit includes attachment points. See Exhibit 2.
Tilt	Up to 1 degree from vertical

Space/HVAC

Min. Room Temperature	59° F (15° C)
Max. Room Temperature	86° F (30° C)
Relative Humidity	10 - 80% non condensing
Elevation	-330 to 9,900 feet (-100 to 3,000 meters)
External Venting	If desired, the system can be configured to allow it to vent to an external venting system. 2" vent

Heat Load

Normal Cycle	1200 Watt (4000 BTU/hr)
Self Disinfection Cycle	2000 Watt (7000 BTU/hr)
Idle	300 Watt (1000 BTU/hr)

EVOTECH® ECR

Electrical

EVOTECH® ECR Electrical

AC Power	208 V (+5%/-10%), 3 Phase~, 60Hz, 30 A USA, Canada. Dedicated circuit. Power outlet must be ground fault protected. Do not place the GFCI under the water filtration unit. See Exhibit 5.
Draw	Nominal 23 amps +10% at peak
Power Consumption	Nominal peak power is approximately 9000W and idle power is approximately 300W. The average power per cycle will depend upon incoming water temperature but typically should be approximately 1800W.
Electrical Connection	3-phase NEMA, L 15-30 - Locking The electrical connection must be user accessible. The EVOTECH® System must be positioned to allow user accessibility of the power plug as an electrical disconnection device.
Network interface	RJ45 10-Base T
Ground Fault Circuit Interrupter	30 Amp, 3 Phase 208 VAC 3-Wire (L1, L2, L3) Auto recovery on power loss GFCI Delta circuit w/o neutral ASP recommends the use of ground fault products by North Shore Safety (model PGFS-83105 -137) or Siemens (Type ED6, or equivalent) but customers may use any GFCI vendor products that meet the above specification. Expected lead time 2-3 weeks.

Printer Electrical

Printer	Black and white printer included. The printer is a separate external device from the EVOTECH® ECR.
Printer Power Connection	100 - 240V~, 50/60 Hz, 1.5 A
Printer Support	The printer rests on either side of the system on the provided support (brackets are included). The printer can also be located on a nearby shelf. Printer brackets can fit up to a 7.7" x 7.7" (19.5 x 19.5 cm) printer. Printer brackets extend approximately 8.7" (22 cm) from the system.
Printer Connection	120 inch power cable (supplied)

EVOTECH® ECR

Plumbing

Drain Specifications

Number of Drains	The left and right basin each has a drain tube. There is a shared overflow detector
Peak Drain Capacity	25 liters/min
Drain Height	38" (minimum) - 42" (maximum) as measured from the floor - vented
Stand Pipe	One 3" in diameter, or Two each 2" in diameter to accomodate EVOTECH® ECR drain lines (6" minimum length)
Drain Location	To the right of AC outlet and within 44" of installation system
Floor Drain	Recommended

Water Quality

Hardness	Less than 50 PPM (CaCO ₃ , or Equivalent). ASP requires the use of a water softening system with all EVOTECH® ECR installations. Contact Siemens Water Technologies for recommendations.
Type	Potable tap water. Reverse Osmosis (RI) and Deionized (DI) water are contraindicated for use in the EVOTECH® ECR and will cause cycle cancelations.
ASP Supplied Pre-Filter	Carbon filtration and 0.2 micron filtration (See page 6).
Water Pressure	40 PSI (275 kPa) minimum dynamic pressure during flow rate of 1.6 gallons per minute at EVOTECH® ECR inlet (6 lpm) per basin. Note: ASP recommends ¾ inch or greater water supply lines. 70 PSI (690 kPa) maximum static pressure. Check water filtration manual for maximum water filtration static pressure.
Water Temperature	59° F (15° C) to 86° F (30° C) Note: Hot water (>86° F) is contraindicated and will cause cycle cancellations.
Conductivity	>132 µS/cm (Between 41 and 132 µS/cm requires the addition of salt tablets to complete self-disinfection cycle; refer to CL-103685)
Recommended Silt Density Index (Water Sediment)	≤5 For optimum performance, ASP recommends the use of pre-filtration systems when SDI >5, contact Clear Solutions, Inc. for recommendations.

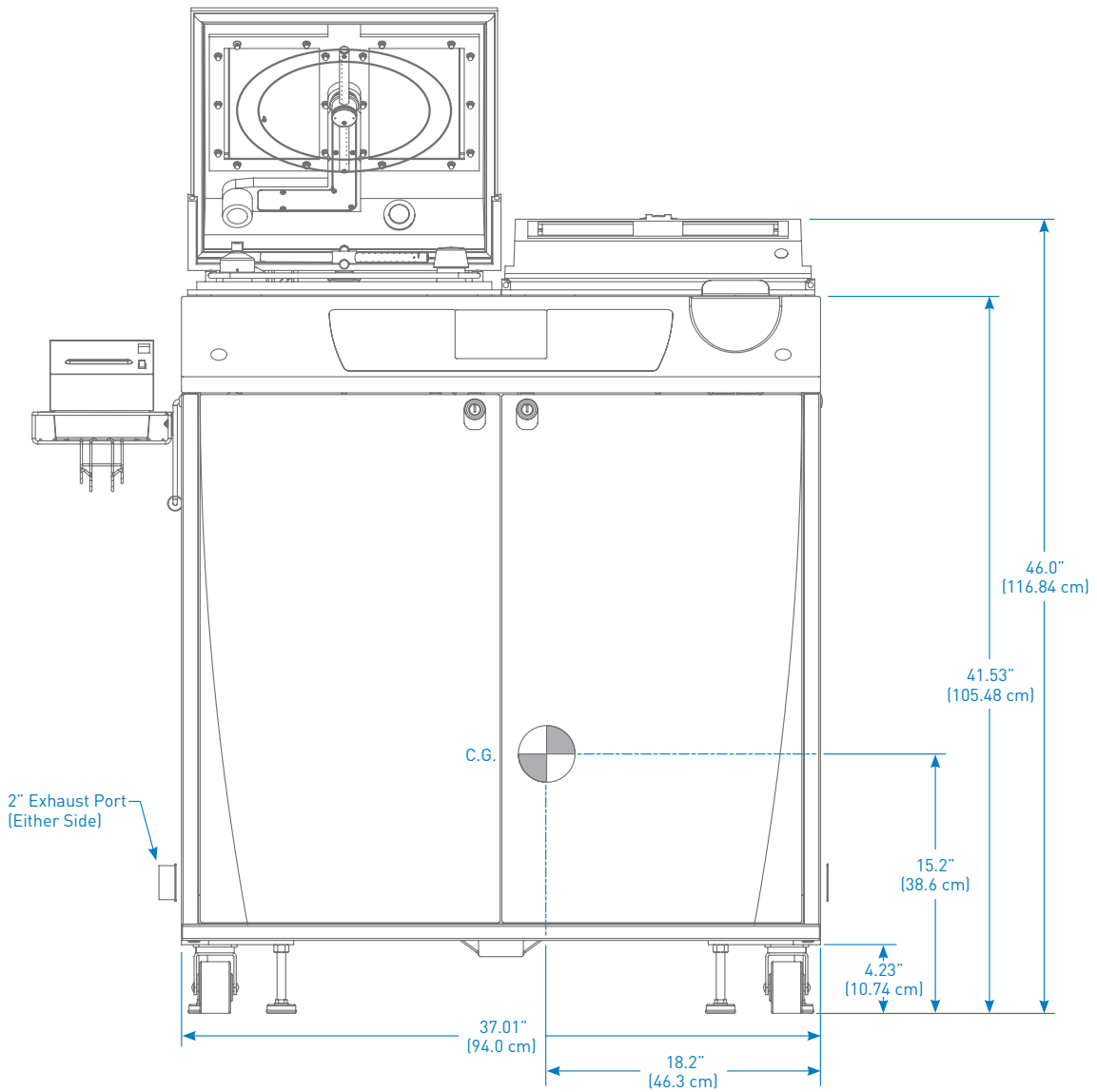
EVOTECH® ECR

Water Filtration System

Description	The Water Filtration System with Chlorine Removal for use with EVOTECH® Endoscope Cleaner and Reprocessor (ECR) offers a unique combination of efficiency and capacity for particulate and chemical adsorption. This system filters contaminants such as sediment, soluble organics and chlorine found in municipal water sources. This Water Filtration System is required for use with every EVOTECH® ECR (Additional filtration may be recommended).
Where Marketed	United States, Canada, New Zealand, Australia, Singapore
Configuration	Wall-mounted
Filter Media	
Hybrid Carbon Filter	PAC infused/Nanoalumina charged media with a Rigid Carbon Block Core
0.2 micron Filter	Polyether Sulfone Membrane or Polypropylene Polysulfone
Water Supply	
Pressure	Maximum static pressure not to exceed 70 PSI (4.83 bar)
Maximum Pressure	
Hybrid Carbon Filter	70 PSI (4.83 bar)
0.2 micron Filter	70 PSI (4.83 bar)
Temperature Range	39-135° F (4-57° C)
Chlorine Reduction Efficiency	2 ppm to less than 1 ppm for > 30,000 gallons (Part no. PACB4.5-20)
Silt Density Index	≤ 1.0 ±0.1
Efficiency	> 99.9% reduction of 0.2µ particulate (monodispersed latex spheres)
Dirt Holding Capacity (DHC)	925g (A2 Fine Test Dust)
Effective pH Range	5-10
Overall Size	27" (W) × 19.625" (H) × 8.25" (D)
Weight (Dry)	25 lbs
Weight (Filled w/ Water)	< 65 lbs
Water Filtration Plate (Mounting Plate)	Mounting plate is required to be installed by facility prior to Water Filtration System installation
Inlet Water Hose	58" (147.32 cm) - 3/4 inch GHT
Drain Hose	60" (Note that the drain hose cannot be stretched straight) - 3/4 inch GHT

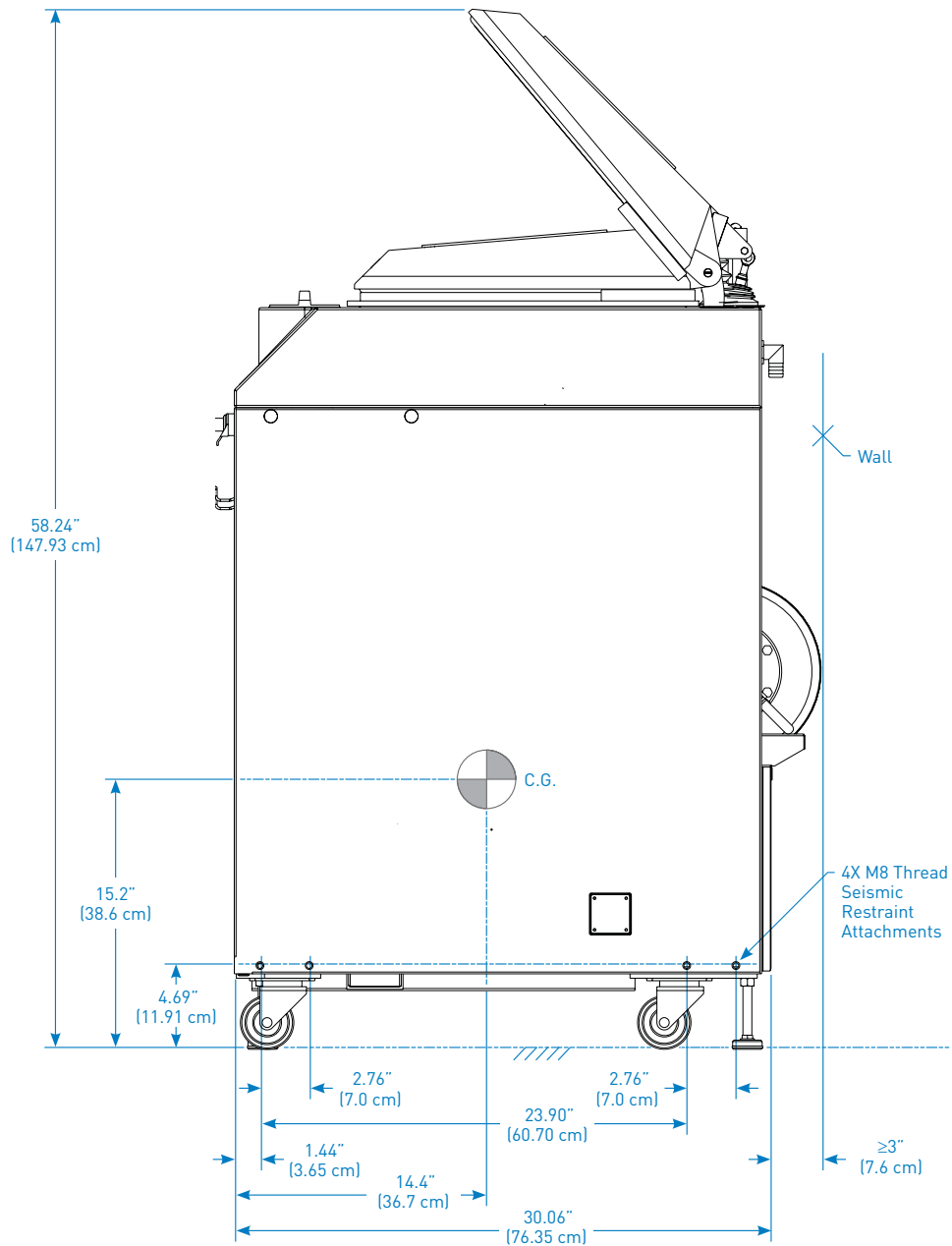
EVOTECH® ECR

Exhibit 1: Front View



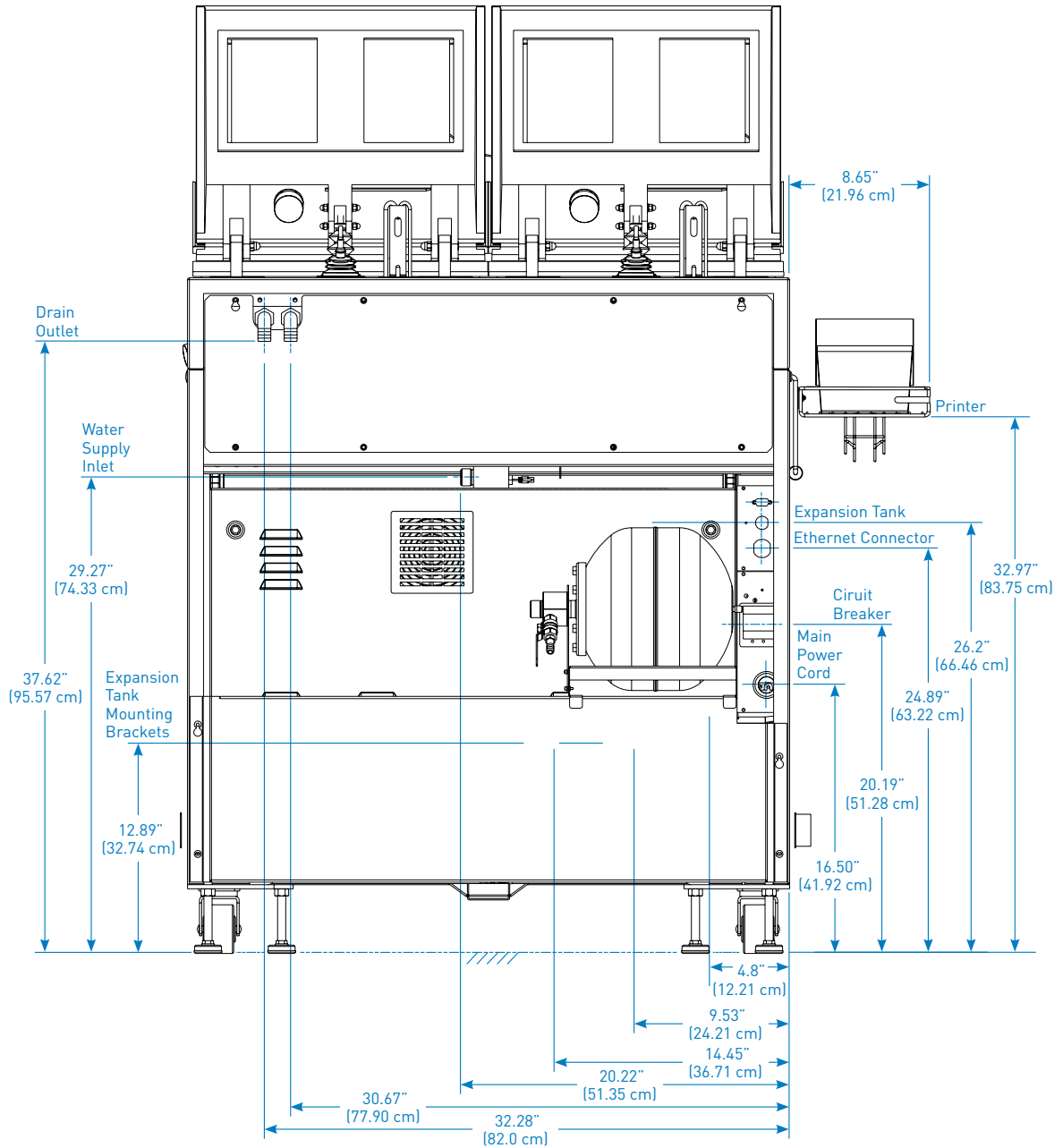
EVOTECH® ECR

Exhibit 2: Side View



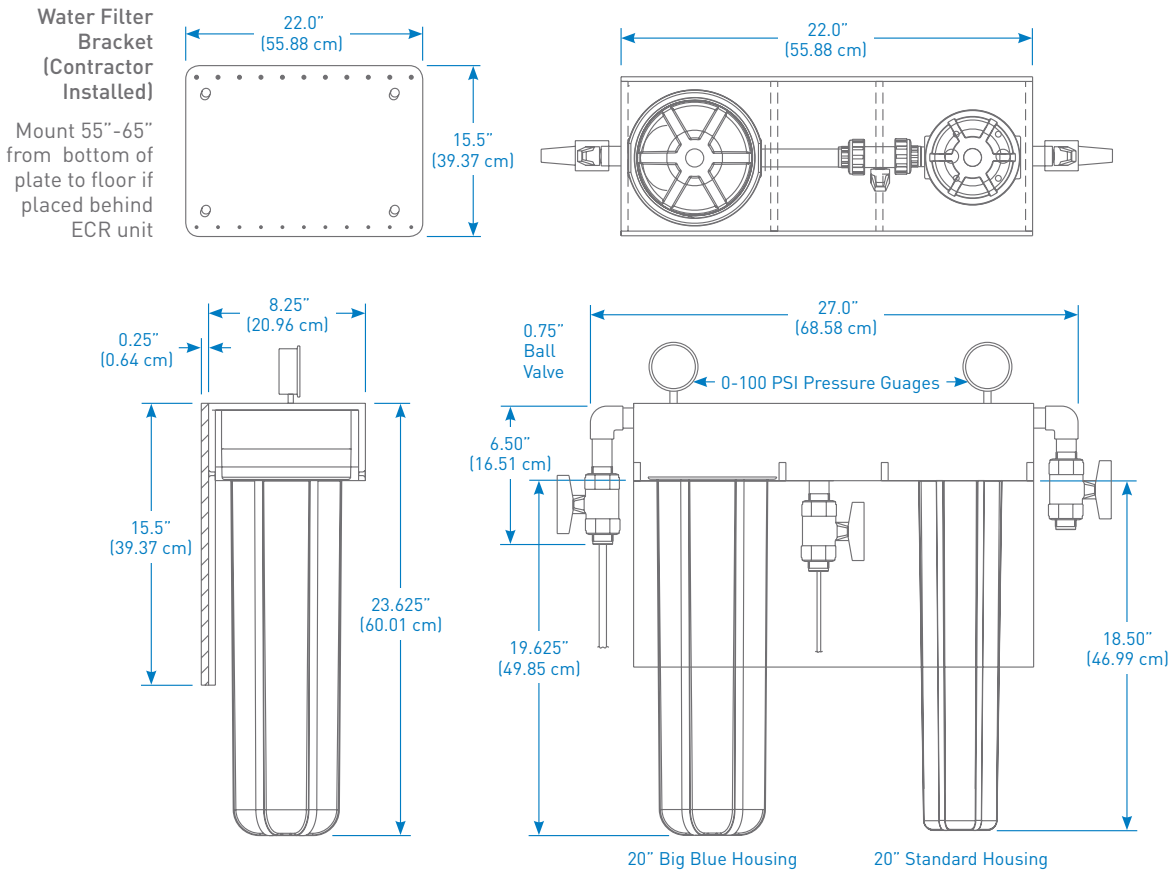
EVOTECH® ECR

Exhibit 3: Rear View (Expansion Tank Mounted Horizontally)



EVOTECH® ECR

Exhibit 4: Water Filtration System and Bracket



Pre-Installation of Bracket

Select the area where the filter housing assembly is to be mounted. Make sure adequate space is available below each housing to allow the filters to be removed and replaced.

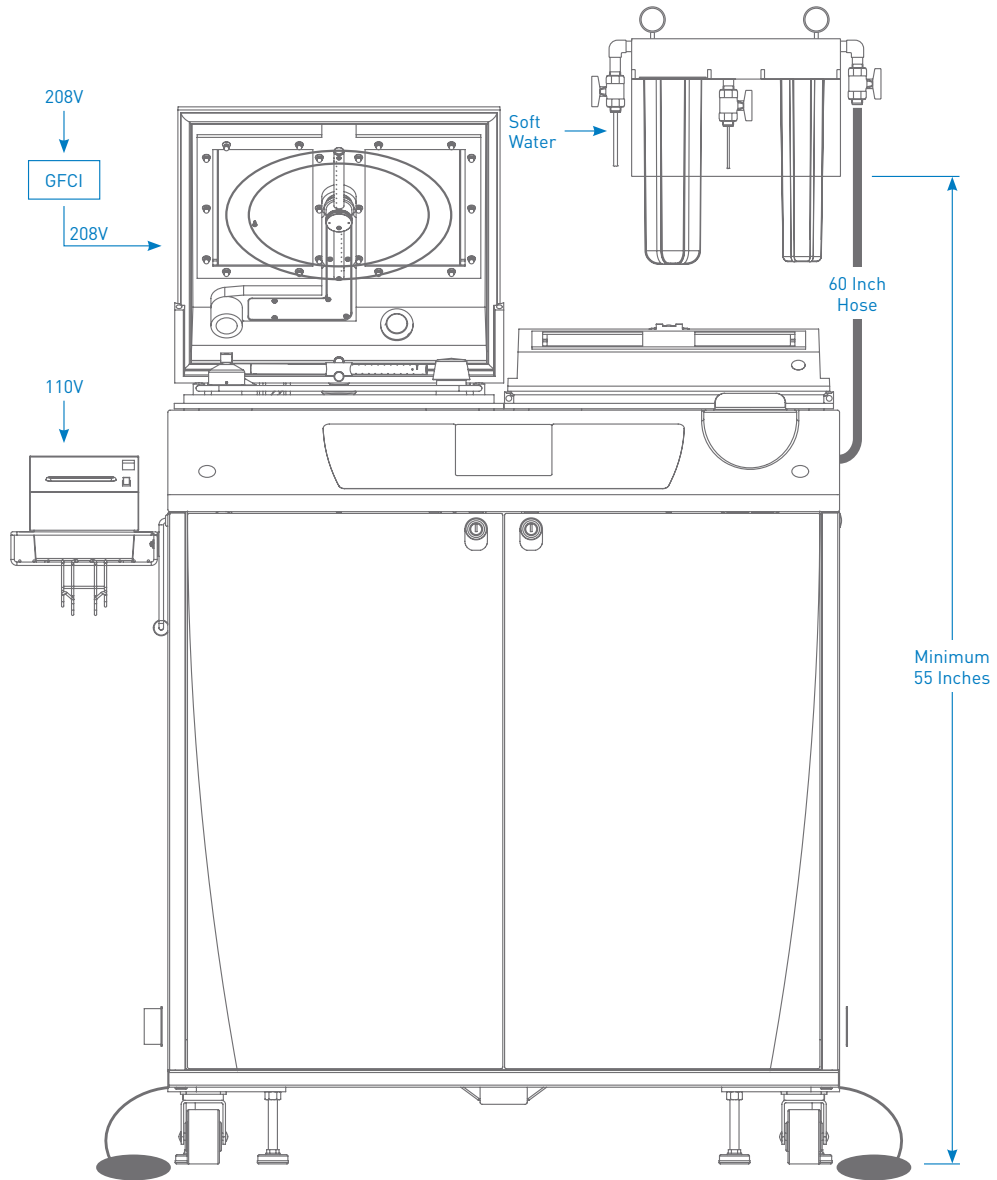
The choice of location dictates whether the wall mount plate is mounted directly to a wall stud or to wall material using lag bolts. ASP cannot mount the wall plate at your facility. Be sure to mount the plate in such a way that it can safely hold the weight of the filter unit; that there is sufficient clearance to change the filters; and make sure the Water Filtration System is close enough to the drain, water source and to the EVOTECH® ECR, to prevent kinking or damage to the hoses.

Verify that the water static pressure does not exceed 70 psi [4.83 bar].

Note: When filled with water, the system weighs approximately 65 lbs [29.5 kg].

EVOTECH® ECR

Exhibit 5: System Overview



EVOTECH® ECR

Pre-Installation Specification Checklist

<input type="checkbox"/>	Space Requirement: Installation Space	See Page 3 Height (w/ Lid Open) 58" (147 cm) Width (w/ Printer) 46" (116 cm) Depth 33" (84 cm)
<input type="checkbox"/>	Service Space	36" Minimum access space around the System
<input type="checkbox"/>	Room Environment	Room Temperature 64° F (18° C) to 86° F (30° C) Room Humidity 10% to 80% relative Humidity
<input type="checkbox"/>	Power Requirements: EVOTECH® System	See Page 4 3 phase 208VAC, 60Hz, 30amp GFI Protected Dedicated circuit Electrical Connection (3-phase NEMA, L 15-30)
<input type="checkbox"/>	EVOTECH® Printer	100 - 240V~, 50/60 Hz, 1.5 A *All power shall be located on the Left Side Facing the area being prepared for the Evotech system.
<input type="checkbox"/>	Water Requirements: Supply:	See Page 5 Water Flow: 12 liters/min (3.2 gallons/minute) Water Pressure: 40-70 psi dynamic pressure
<input type="checkbox"/>	Water Temperature:	15-30°C
<input type="checkbox"/>	Soft Water Available:	Water softeners are required for all Evotech installations Maintain constant <50 ppm at all time
<input type="checkbox"/>	Drain Requirement:	Drain stack: 1ea of 3 inches diameter or 2ea of 2 inches in diameter. Vented Drain Height: 38 to 42 inches high from the floor Drain Capacity: 24 liters/min (6.4 gallons/minute) per drain *All Drain(s) shall be located on the Right Side Facing the area being prepared for the Evotech system.
<input type="checkbox"/>	Conductivity:	>132 µS/cm (Between 41 and 132 µS/cm requires the addition of salt tablets to complete self-disinfection cycle; refer to CL-103685)
<input type="checkbox"/>	Recommended SDI:	≤5



Office of Statewide Health Planning and Development
ANCHORAGE PRE-APPROVAL
OPA-2893-10

THIS PRE- APPROVAL CONFORMS TO THE 2010 CALIFORNIA BUILDING CODE

Equipment Manufacturer: ADVANCED STERILIZATION PRODUCTS

Equipment Type: EVOTECH

GENERAL NOTES

1. EXPANSION ANCHORS:

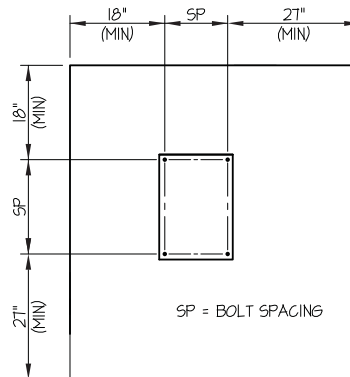
(a) ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

Anchor Diameter	Concrete Type	Min. f _c (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Installation Torque	Test Loads
3/8"	Sand Light Wt or Hardrock	3000	Simpson Strong Bolt 2	ESR-3037	1.875"	3"	18"	3-1/4"	30 FT-LB	Direct Pull Tension - 520 lb

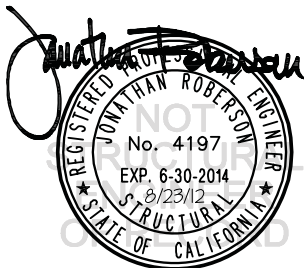
(b) THIS PRE-APPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 18" AWAY MINIMUM (i.e. - CORNER). SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE EDGE DISTANCES.

2. TESTING OF EXPANSION ANCHORS PER 2010 CBC, 1916A.7 : TENSION TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO OSHPD

- (a) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, DIRECT PULL TENSION TEST AT LEAST 50% OF THE ANCHORS.
- (b) ACCEPTANCE CRITERIA: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE TEST LOAD. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER BECOMES LOOSE.
- (c) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.



TYPICAL CONCRETE EDGE DETAIL



A P P R O V E D
Fixed Equipment Anchorage
 Office of Statewide Health Planning and Development

OPA-2893-10

Pre-approval Program Manager:
 Anthony R. Pike
 (616) 440-8470

P E N D I N G

Reviewed By: Anthony R. Pike 8/23/12



Office of Statewide Health Planning and Development
ANCHORAGE PRE-APPROVAL

OPA-2893-10

THIS PRE- APPROVAL CONFORMS TO THE 2010 CALIFORNIA BUILDING CODE

Equipment Manufacturer: ADVANCED STERILIZATION PRODUCTS

Equipment Type: EVOTECH

GENERAL NOTES (CONTINUED)

- 3. FORCES PER ASCE 7-05 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE $S_{ds} = 2.0$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 2.5$, $z/h \leq 1.0$.
- 4. THIS PRE-APPROVAL CONFORMS TO THE 2010 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN 2.0.
- 5. THIS PRE-APPROVAL COVERS ONLY THE ANCHORAGE OF THE EQUIPMENT TO THE HOSPITAL BUILDING'S STRUCTURE.
- 6. ALL ANCHOR FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING

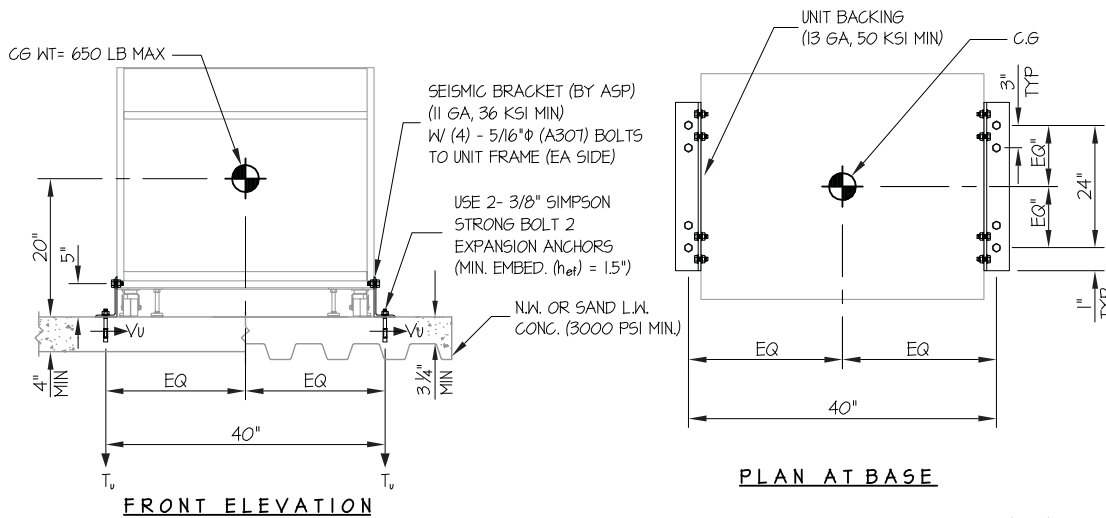
- 7. VERIFY THAT PROJECT SPECIFIC VALUES OF S_{ds} & z/h RESULT IN SEISMIC FORCES (E_h , E_v) THAT DO NOT EXCEED THE VALUES ON THE DETAILS.
- 8. VERIFY THAT THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE REQUIREMENTS OF THE APPLICABLE ICC ESR
- 9. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS (SEE TYPICAL DETAIL ON SHEET 1).
- 10. VERIFY THAT ALL NEW OR EXISTING ANCHORS ARE AN ADEQUATE DISTANCE FROM THE ANCHORS SHOWN IN THIS PRE-APPROVAL. SEOR SHALL VERIFY THAT THERE IS NO ADVERSE INTERACTION WHERE OTHER ANCHORS ARE WITHIN 18" OR $6h_{ef}$ FROM THIS UNIT'S ANCHORS
- 11. DESIGN BACKING PLATES, STUDS, ETC TO WHICH THE EQUIPMENT IS ATTACHED, AS NOTED ON THE DRAWINGS.
- 12. PROVIDE SUPPORTING STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS. VERIFY THE ADEQUACY OF THE STRUCTURES (SUCH AS WALLS AND FLOORS) WHICH SUPPORT THE EQUIPMENT FOR THE LOADS IMPOSED ON THEM BY THE EQUIPMENT IN ADDITION TO ALL OTHER LOADS.
- 13. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2010 CBC AND WITH THE DETAILS SHOWN IN THIS PRE-APPROVAL. VERIFY THAT THE ACTUAL EQUIPMENT'S WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS, AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.



EA SE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.equipmentanchorage.com ADVANCED STERILIZATION PRODUCTS EVOTECH	DES. J. ROBERSON	SHEET 3
	JOB NO. 11-1242	OF 3 SHEET
	DATE 8/23/12	

SEISMIC ANCHORAGE

CONCRETE SLAB / CONCRETE SLAB ON METAL DECK



T_u = 218 LB/BOLT (MAX)
 V_u = 117 LB/BOLT (MAX)

NOTES:

- ANCHORAGE DESIGN PER 2010 CALIFORNIA BUILDING CODE AND ASCE 7-05 STRENGTH DESIGN IS USED.

HORIZONTAL FORCE (E_h) = 144 W_p (S_{ds} = 2.00, a_p = 10, I_p = 15, R_p = 2.5, z/h ≤ 10)
 VERTICAL FORCE (E_v) = 0.40 W_p

- CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
- SEE GENERAL NOTES: SHEET 1.

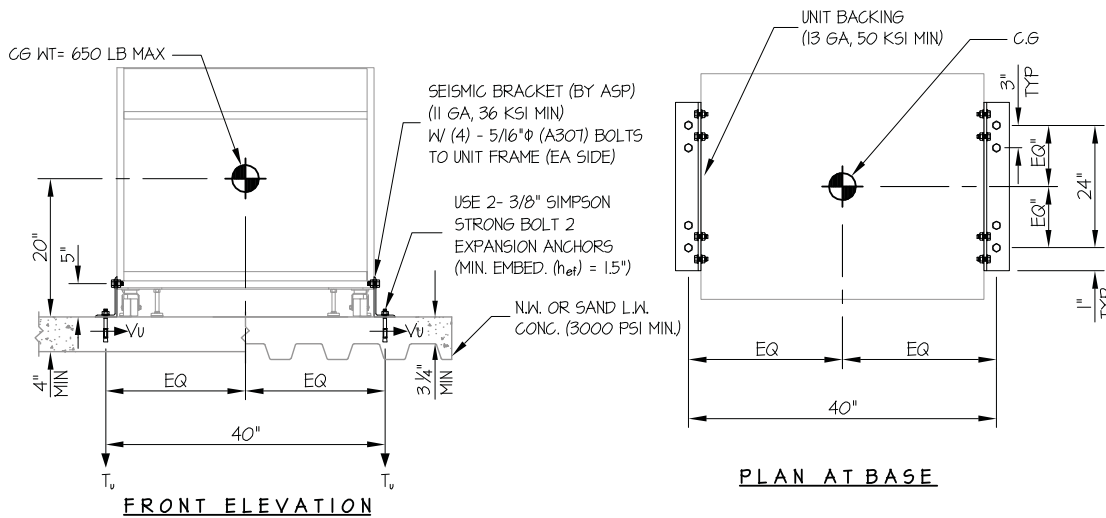


APPROVED	
Fixed Equipment Anchorage Office of Statewide Health Planning and Development	
OPA-2893-10	
Pre-approval Program Manager: Anthony R. Pike (816) 440-8470	
P E N D I N G	
Reviewed By: Anthony R. Pike	8/23/12

EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.equipmentanchorage.com	DES. J. ROBERSON	SHEET 1
	JOB NO. 11-1242	OF 1 SHEET
	DATE 8/23/12	
ADVANCED STERILIZATION PRODUCTS EVOTECH		

SEISMIC ANCHORAGE

CONCRETE SLAB / CONCRETE SLAB ON METAL DECK



LOADS: PER 2010 CALIFORNIA BUILDING CODE AND ASCE 7-05

(STRENGTH DESIGN IS USED) (S_DS = 2.00, a_p = 10, I_p = 15, R_p = 2.5, z/h = 0.0)

WEIGHT = 650 LB

HORIZONTAL FORCE (E_h) = 1.44W_p = 936 LB

VERTICAL FORCE (E_v) = 0.40W_p = 260 LB

BOLT FORCES:

BOLT SPECS: 3/8"φ SIMPSON STRONG BOLT 2

φ_T = 0.75φN_t = 416 LB/BOLT (TENSION)

φ_V = 0.75φV_n = 449 LB/BOLT (SHEAR)

TENSION (T)

$$T_{u \text{ MAXIMUM}} = \left[\frac{936\#(20")}{4 \text{ BOLTS}(40")} \times (0.3) \right] + \frac{936\#(20")}{4 \text{ BOLTS}(21")} - \frac{(650\#(0.9) - 260\#)}{8 \text{ BOLTS}} = 218 \text{ LB/BOLT (MAX)}$$

(HORIZ - SIDE TO SIDE) (HORIZ - FRONT TO BACK) (WEIGHT (0.9) - E_v)

SHEAR (V)

$$V_{u \text{ MAXIMUM}} = \frac{936\#}{8 \text{ BOLTS}} = 117 \text{ LB/BOLT (MAX)}$$

UNITY CHECK:

PRYING

$$M_{\text{PRYING}} = 218\#(15") - 117\#(5") = 0\#\$$

∴ NO PRYING EFFECTS

$$\left(\frac{T_u}{\phi T} \right) + \left(\frac{V_u}{\phi V} \right) \leq 10$$

$$\left(\frac{218}{416} \right) + \left(\frac{117}{449} \right) = 0.79 \leq 12 \quad \therefore \text{O.K.}$$

NOTE:

STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE DESIGN OF SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.





Office of Statewide Health Planning and Development
ANCHORAGE PRE-APPROVAL

OPA-2917-10

THIS PRE- APPROVAL CONFORMS TO THE 2010 CALIFORNIA BUILDING CODE

Equipment Manufacturer: ADVANCED STERILIZATION PRODUCTS

Equipment Type: WALL MOUNTED WATER FILTRATION SYSTEMS

GENERAL NOTES

1. FORCES PER ASCE 7-05 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE $S_{ds} = 2.0$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 2.5$, $z/h \leq 1.0$
2. THIS PRE-APPROVAL CONFORMS TO THE 2010 CALIFORNIA BUILDING CODE.
3. THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY HEIGHT AND AT ANY LOCATION IN THE STATE OF CALIFORNIA, WHERE SDS IS NOT GREATER THAN 2.0.
4. ALL ANCHOR FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.
5. SHEET METAL SCREWS SHALL BE TEKS SCREWS BY ITW BUILDEX (ICC ESR-1976).
6. THIS PRE-APPROVAL COVERS ONLY THE ANCHORAGE OF THE UNIT TO THE HOSPITAL BUILDING'S STRUCTURE

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING

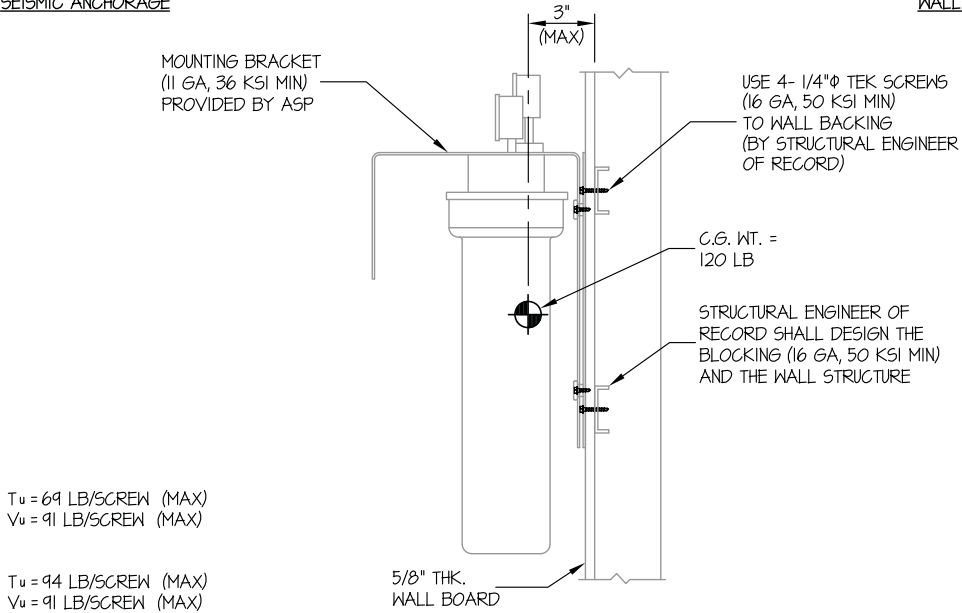
7. DESIGN BACKING BARS, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS. THE SEOR SHALL ALSO VERIFY THE ADEQUACY OF THE STRUCTURES (SUCH AS WALLS AND FLOORS) WHICH SUPPORT THE UNITS FOR THE LOADS IMPOSED ON THEM BY THE UNITS AS WELL AS ALL OTHER LOADS.
8. PROVIDE SUPPORTING STRUCTURE REQUIRED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
9. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2010 CBC AND WITH THE DETAILS SHOWN IN THIS PRE-APPROVAL. VERIFY THAT THE ACTUAL EQUIPMENT'S WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.
10. VERIFY THAT THE COMBINATION OF S_{ds} & z/h RESULT IN SEISMIC FORCES (E_h, E_v) THAT ARE NOT GREATER THAN THE VALUES ON THE DETAILS.



EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.equipmentanchorage.com		
ADVANCED STERILIZATION PRODUCTS	DES. J. ROBERSON	SHEET 2
WALL MOUNTED WATER FILTRATION SYSTEMS	JOB NO. 11-1262	OF 4 SHEETS
	DATE 10/1/12	

SEISMIC ANCHORAGE

WALL MOUNTED



T_u = 69 LB/SCREW (MAX)
V_u = 91 LB/SCREW (MAX)

T_u = 94 LB/SCREW (MAX)
V_u = 91 LB/SCREW (MAX)

SIDE ELEVATION

NOTES:

1. ANCHORAGE DESIGN PER 2010 CALIFORNIA BUILDING CODE AND ASCE 7-05. STRENGTH DESIGN IS USED.
 HORIZONTAL FORCE (E_h) = 144 W_p (S_{DS} = 2.00, a_p = 10, I_p = 15, R_p = 2.5, z/h ≤ 10)
 VERTICAL FORCE (E_v) = 0.40 W_p
2. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
3. STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
4. SEE GENERAL NOTES: SHEET 1

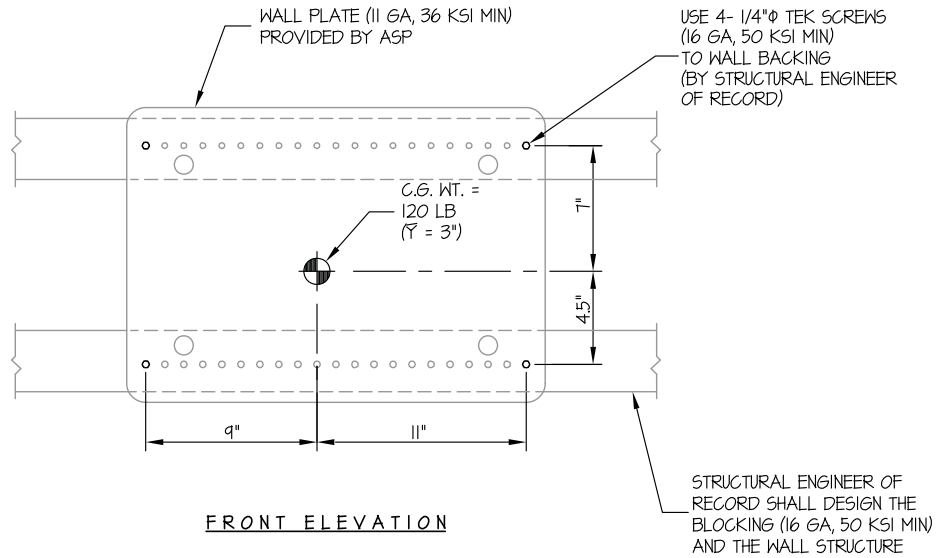


A P P R O V E D	
Fixed Equipment Anchorage Office of Statewide Health Planning and Development	
OPA-2917-10	
Pre-approval Program Manager: Anthony R. Pike (916) 440-8470	
P E N D I N G	
Reviewed By: Anthony R. Pike	10/1/12

EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.equipmentanchorage.com		
ADVANCED STERILIZATION PRODUCTS WALL MOUNTED WATER FILTRATION SYSTEMS	DES. J. ROBERSON	SHEET 3 OF 4 SHEETS
	JOB NO. 11-1262	
	DATE 10/1/12	

SEISMIC ANCHORAGE

WALL MOUNTED

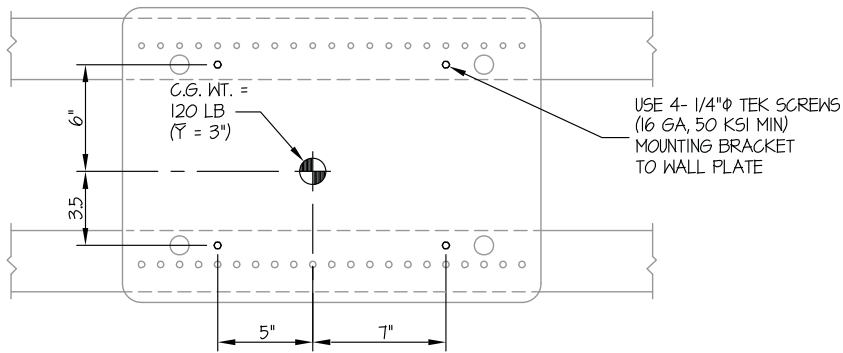


A P P R O V E D Fixed Equipment Anchorage Office of Statewide Health Planning and Development	
	
OPA-2917-10 Pre-approval Program Manager: Anthony R. Pike (916) 440-8470	
P E N D I N G	
Reviewed By: Anthony R. Pike	10/1/12

EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.equipmentanchorage.com		
ADVANCED STERILIZATION PRODUCTS WALL MOUNTED WATER FILTRATION SYSTEMS	DES. J. ROBERSON	SHEET 4 OF 4 SHEETS
	JOB NO. 11-1262	
	DATE 10/1/12	

SEISMIC ANCHORAGE

WALL MOUNTED



FRONT ELEVATION

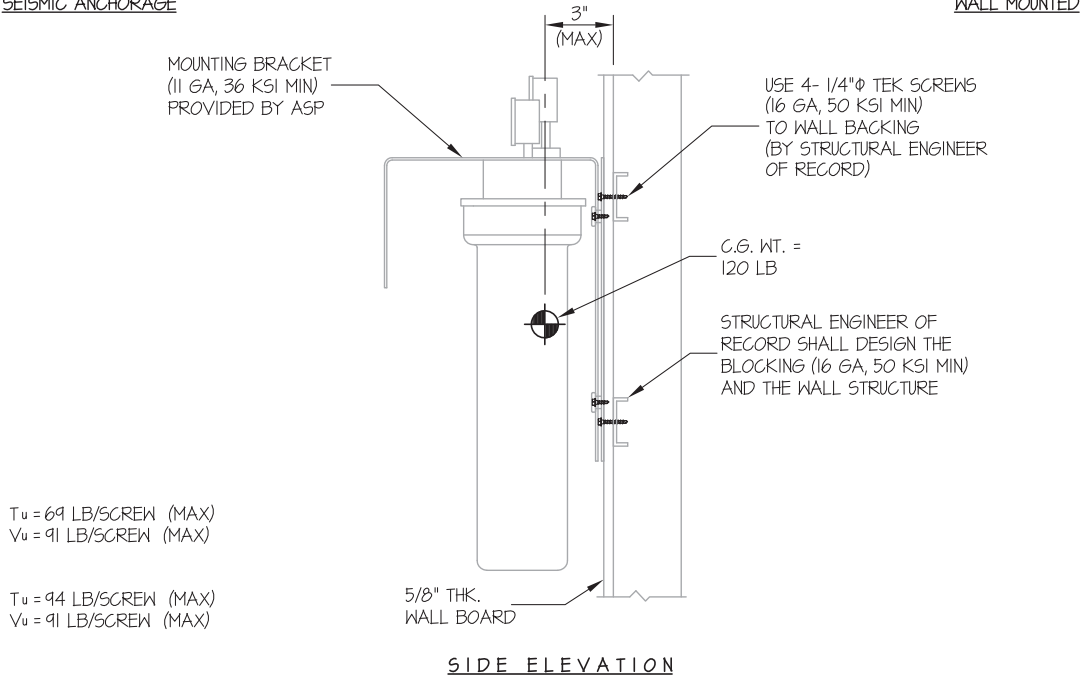


A P P R O V E D Fixed Equipment Anchorage Office of Statewide Health Planning and Development	
	
OPA-2917-10 Pre-approval Program Manager: Anthony R. Pike (916) 440-8470	
P E N D I N G	
Reviewed By: Anthony R. Pike	10/1/12

EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.equipmentanchorage.com	DES. J. ROBERSON	SHEET 1 OF 3 SHEETS
	JOB NO. 11-1262	
ADVANCED STERILIZATION PRODUCTS WALL MOUNTED WATER FILTRATION SYSTEMS	DATE 10/1/12	

SEISMIC ANCHORAGE

WALL MOUNTED



NOTES:

1. FORCES ARE DETERMINED PER 2010 CALIFORNIA BUILDING CODE AND ASCE 7-05. STRENGTH DESIGN IS USED.

HORIZONTAL FORCE (E_h) = $1.44 W_p$ ($S_{ds} = 2.00, a_p = 1.0, I_p = 1.5, R_p = 2.5, z/h \leq 10$)
 VERTICAL FORCE (E_v) = $0.40 W_p$

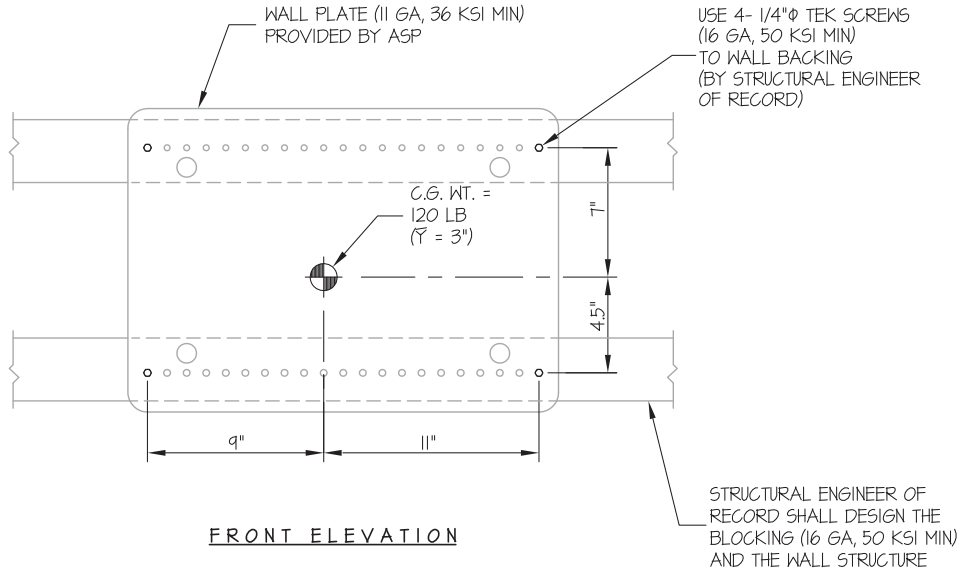
2. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
3. STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.



EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.equipmentanchorage.com ADVANCED STERILIZATION PRODUCTS WALL MOUNTED WATER FILTRATION SYSTEMS	DES. J. ROBERSON	SHEET 2
	JOB NO. 11-1262	OF 3 SHEETS
	DATE 10/1/12	

SEISMIC ANCHORAGE

WALL MOUNTED



LOADS:

WEIGHT = 120 LB
 HORIZONTAL FORCE (E_h) = 173 LB
 VERTICAL FORCE (E_v) = 48 LB

TENSION (T)

$$T_{u \text{ VERTICAL}} = \frac{12(120\#) + 48\#(3'')(9'')}{1 \text{ SCREW } (11.5'')(20'')} = 23 \text{ LB}$$

$$T_{u \text{ PARALLEL}} = \frac{173\#(3'')(4.5'')}{1 \text{ SCREW } (20'')(11.5'')} = 10 \text{ LB}$$

$$T_{u \text{ PERP.}} = \frac{173\#}{4 \text{ SCREWS}} = 43 \text{ LB}$$

$$T_{u \text{ MAX}} = 23\# + (0.3)(10\#) + 43\# = 69 \text{ LB/SCREW (MAX)}$$

SHEAR (V)

$$V_{u \text{ MAX}} = \frac{12(120\#) + 48\# + 173\#}{4 \text{ SCREWS}} = 91 \text{ LB/SCREW (MAX)}$$

UNITY CHECK:

$$\left(\frac{T_u}{\phi T}\right) + \left(\frac{V_u}{\phi V}\right) \leq 1.0 \left(\frac{69}{418}\right) + \left(\frac{91}{362}\right) = 0.42 \leq 1.0 \therefore \text{O.K.}$$

NOTE:

STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE DESIGN OF SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.

SCREW SPEC: 1/4" TEK SCREWS

φT = 418 LB/SCREW

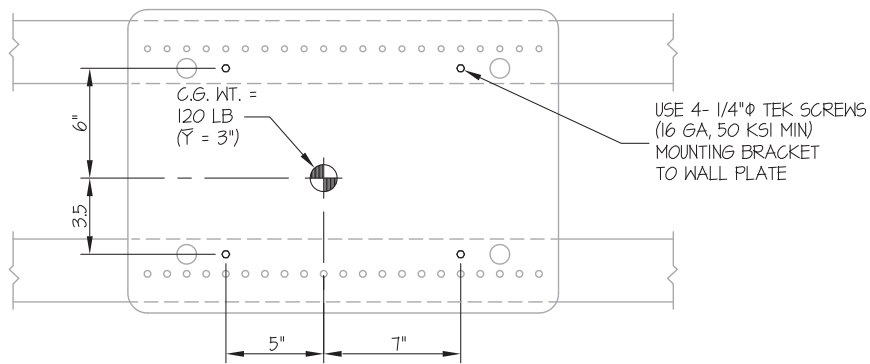
φV = 362 LB/SCREW



EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.equipmentanchorage.com ADVANCED STERILIZATION PRODUCTS WALL MOUNTED WATER FILTRATION SYSTEMS	DES. J. ROBERSON	SHEET 3
	JOB NO. 11-1262	OF 3 SHEETS
	DATE 10/1/12	

SEISMIC ANCHORAGE

WALL MOUNTED



FRONT ELEVATION

LOADS:

WEIGHT = 120 LB
 HORIZONTAL FORCE (E_h) = 173 LB
 VERTICAL FORCE (E_v) = 48 LB

TENSION (T)

$$T_{u \text{ VERTICAL}} = \frac{(12)(120\#) + 48\#(3'')(9'')}{1 \text{ SCREW } (9.5'')(12'')} = 46 \text{ LB}$$

$$T_{u \text{ PARALLEL}} = \frac{173\#(3'')(3.5'')}{1 \text{ SCREW } (12'')(9.5'')} = 16 \text{ LB}$$

$$T_{u \text{ PERP.}} = \frac{173\#}{4 \text{ SCREWS}} = 43 \text{ LB}$$

$$T_{u \text{ MAX}} = 46\# + (0.3)(16\#) + 43\# = 94 \text{ LB/SCREW (MAX)}$$

SHEAR (V)

$$V_{u \text{ MAX}} = \frac{12(120\#) + 48\# + 173\#}{4 \text{ SCREWS}} = 91 \text{ LB/SCREW (MAX)}$$

UNITY CHECK:

$$\left(\frac{T_u}{\phi T}\right) + \left(\frac{V_u}{\phi V}\right) \leq 10 \left(\frac{94}{418}\right) + \left(\frac{91}{362}\right) = 0.48 \leq 10 \therefore \text{OK}$$

NOTE:

STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE DESIGN OF SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.

SCREW SPEC: 1/4" φ TEK SCREWS

φT = 418 LB/SCREW

φV = 362 LB/SCREW





Cut Sheet Summary

GBA Id **25542**

Item **Ultrasonic Cleaner, Console**

Manufacturer **Steris**

Model **CAVIWAVE PRO CRP117**



Image shown may vary in color or finish from actual item to be purchased.

Physical	Electrical	Plumbing/Mechanical	Responsibilities
Height ("): 59.00	<input type="checkbox"/> Multiple Elec Reqs	<input type="checkbox"/> Medical Gas	Furnished by: Owner
Width ("): 36.00	Voltage: 208	<input type="checkbox"/> Compressed Air	New Install: Contractor
Depth ("): 35.00	Hertz: 60	<input type="checkbox"/> External Exhaust	Existing Install: N/A
Weight (lb):	Phase: 3	<input type="checkbox"/> Ventilation	Deinstall/ Move: N/A
Operating Wt (lb): 900	Amps: 26.7	<input type="checkbox"/> Building Steam	<input checked="" type="checkbox"/> Contractor Rough-In
	Watts:	<input type="checkbox"/> Integral Steam Generator	
	Volt Amps:	<input checked="" type="checkbox"/> Cold Water	
Installation / Placement	Breaker Size:	<input checked="" type="checkbox"/> Hot Water	Notes
Placement: Freestanding	<input type="checkbox"/> Dedicated	<input checked="" type="checkbox"/> Treated Water	<input checked="" type="checkbox"/> Critical Path Item
<input type="checkbox"/> Component System	<input type="checkbox"/> Emergency	<input checked="" type="checkbox"/> Drain	<input type="checkbox"/> Refer to Vendor Dwg
	<input checked="" type="checkbox"/> Hard-wired <input type="checkbox"/> Power Cord	BTUs/Hr: 300	<input checked="" type="checkbox"/> See Mfgr Cut Sheets
Seismic Anchorage	NEMA:		<input checked="" type="checkbox"/> Dimensions may be rounded; see vendor sheets
Type: Vendor Installed Connection	Network Connection:		N/A Responsibilities = No Qty (New /Existing)
Pre-apprvl #: 083280-220	<input type="checkbox"/> Cable TV		
	<input type="checkbox"/> Analog Phone Line		
	<input type="checkbox"/> Remote Alarm		

Comments:

Height shown is with lid in open position. Height with lid closed is 41".

The information provided on this summary sheet is based on the data contained on the manufacturer cut sheet(s) that follow. It is the responsibility of the recipient to review the manufacturer's cut sheets for complete information. All specifications included in this document are subject to change without notice by the manufacturer.

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CAVIWAVE™ PRO ULTRASONIC CLEANING SYSTEM SONIC CLEANER

APPLICATION

The Caviwave™ Pro Sonic Cleaner is designed to thoroughly wash (remove tissue, blood and other contaminants) surgical instruments and Intuitive Surgical® EndoWrist robot instruments and accessories prior to final disinfection and sterilization. The Caviwave Pro System effectively cleans 5mm and 8mm EndoWrist instruments and accessories, laparoscopic devices and surgical instruments.

DESCRIPTION

The Caviwave Pro Ultrasonic Cleaning System Sonic Cleaner is a freestanding instrument washer housed in a compact stainless-steel cabinet. The Sonic Cleaner contains all needed components to effectively clean (utilizing ultrasonic cavitation passing through a detergent-balanced wash solution) up to ten EndoWrist, six laproscopic surgical devices or collection of regular surgical instruments prior to disinfection and sterilization. The Sonic Cleaner is equipped with a powered opening lid and touch screen control.

STANDARDS

The Caviwave Pro Ultrasonic Cleaning System meets the applicable requirements of the following standards:

- **Underwriters Laboratories (UL) Standard 61010-1: 2nd Edition 2005 Electrical Safety.**
- **IEC-61010-1: 2001 Electrical Safety.**
- **Canadian Standards Association (CSA) Standard C22.2 No. 61010-1: 2nd Edition 2004 Electrical Safety.**
- **CalOSHPD California Seismic "R" Listing.**
- **IEC 61010-1 Safety Requirements.**

FEATURES

The Caviwave Pro Ultrasonic Cleaning System Sonic Cleaner is wired for operation on 208 V (60 Hz, single/three phase) voltage. STERIS



(Typical only - some details may vary.)

supplies a complete working unit ready for (but not including) installation and connection to facility service lines. The Sonic Cleaner includes the following features:

Optimum Ultrasonic Cleaning Power is ensured by simultaneous multi-frequency design. Sonic generators deliver dual frequencies creating optimal cleaning action and noise reduction. The generators are mounted with individual slide out modules for ease of service. Also, patented ceramically-enhanced transducer modules are bonded to the wash tank providing efficient energy transmission for instrument cleaning.

Touch Screen Controls supplied by Mitsubishi PLC. Operator may open lid, select cycle, start or pause cycle and monitor cycle progress from the touch screen.

Locking Caster Wheels are supplied for ease of Caviwave Pro Ultrasonic Cleaning System Sonic Cleaner movement.

Safety Interlocks and Controls help to ensure complete operator safety.

Large Capacity Process Tank (17 gal [64 L]) accepts a large variety of instrument trays. Each unit contains a standard instrument tray and a da Vinci EndoWrist instrument tray. Tank is constructed of type 316 stainless steel with a BA finish.

The Selections Checked Below Apply To This Equipment

VOLTAGES

- 208 V, 60 Hz, 3 ph (Standard)
- 208 V, 60 Hz, 1 ph

ACCESSORIES

- Seismic Design
- Additional Instrument Basket

Item _____

Location(s) _____

SD926 (03/01/11)

Illuminated Controls include MAIN POWER ON/OFF, ALERT: READ SCREEN and PLC.

Two Chemical Probes are provided for one-gallon containers of detergent and lubricant.

Front and Side Service Access Panels are supplied on the unit for ease of any maintenance procedures. Access doors are scratch and dent resistant and sound dampened. Lift-Out access panels are constructed of type 304 stainless steel. Front doors have automatic power cut-off feature to protect components when doors open.

Base Plate, Frame and Removable Countertop are constructed of type 304 stainless steel.

Recommended Chemicals for use in this machine:

- Hinge-Free® Instrument Lubricant.
- Prolystica® 2x Concentrate Enzymatic Presoak and Cleaner.
- Prolystica® 2x Concentrate Alkaline Detergent.
- Prolystica® 2x Concentrate Neutral Detergent.

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.

The base language of this document is ENGLISH. Any translations must be made from the base language document.

CUSTOMER IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE LOCAL AND NATIONAL CODES AND REGULATIONS.

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 that a dedicated, grounded electrical circuit be provided for each unit. Extension cord and plug use is not recommended.
3. Approximate net weight: 790 lb (358 kg).
4. Caviwave Pro Sonic Cleaner must be mounted on a hard, level surface.
5. Caviwave Pro Sonic Cleaner is manufactured for STERIS by Crest Ultrasonics.

UTILITY REQUIREMENTS

Refer to equipment drawing (136825-147) for installation details and specifications.

Electrical

208 V, 60 Hz, 3-Phase (5 Wires including Neutral and Ground) or 208 V, 60 Hz, 1-Phase.

Drain (Gravity)

1" CPVC Male Slip (trap and waste lines are not provided by STERIS). Maximum flow: 10 gpm. Maximum water temperature: 120°F (49°C).

Drain (Pump)

3/4" CPVC (trap and waste lines are not provided by STERIS). Maximum flow: 20 gpm . Maximum water temperature: 120°F (49°C).

Hot Tap Water

1/2" FNPT (40-50 psi); 110-120°F (43-49°C).

Cold Tap Water

1/2" FNPT (40-50 psi); 40-60°F (4-16°C).

Deionized Water

1/2" FNPT (35-50 psi); 65-120°F (18-49°C).

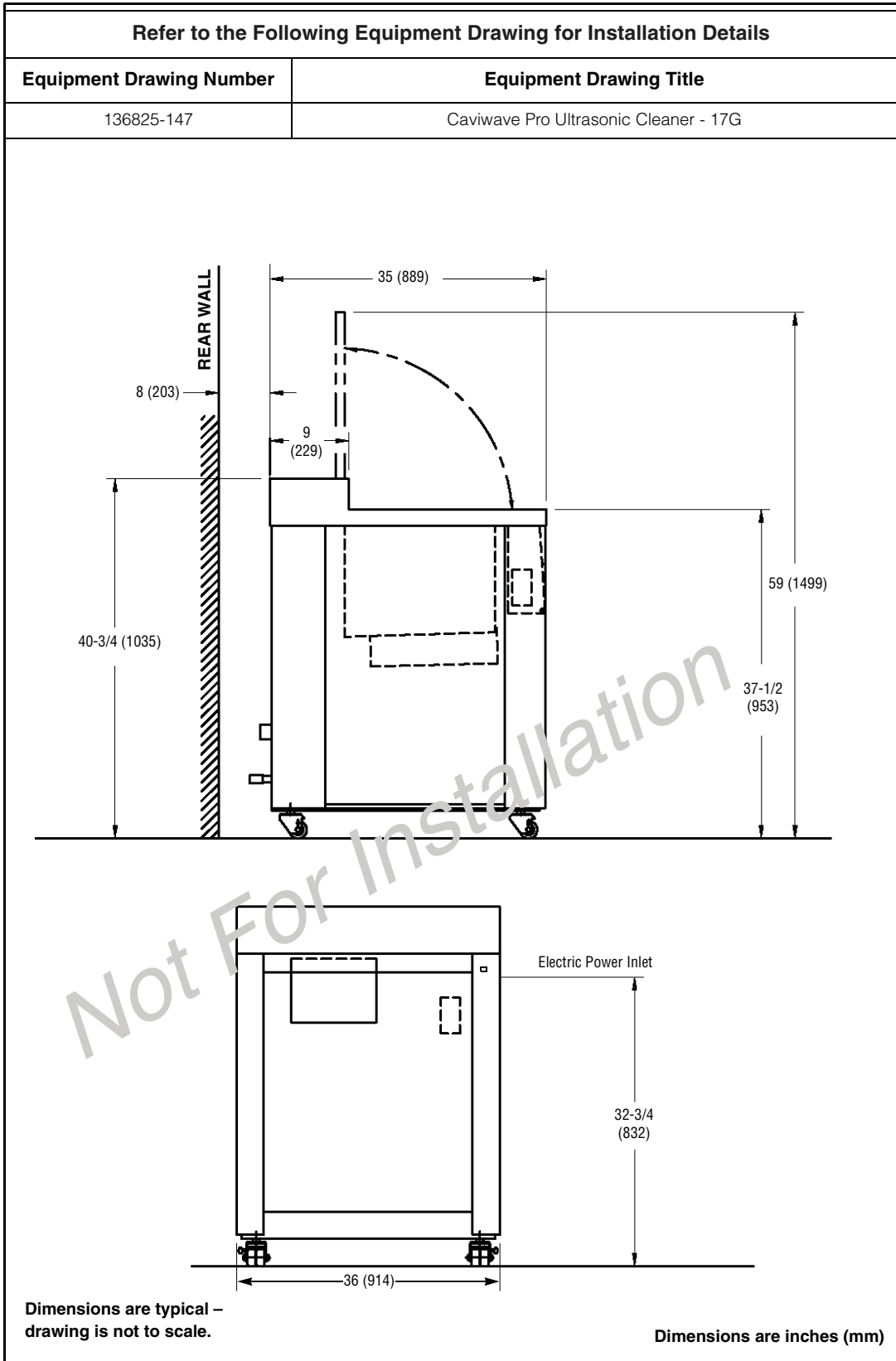
NOTE: Electrical and plumbing connection must be flexible or contain a disconnect to allow unit to be moved from the wall for servicing.

TECHNICAL DATA

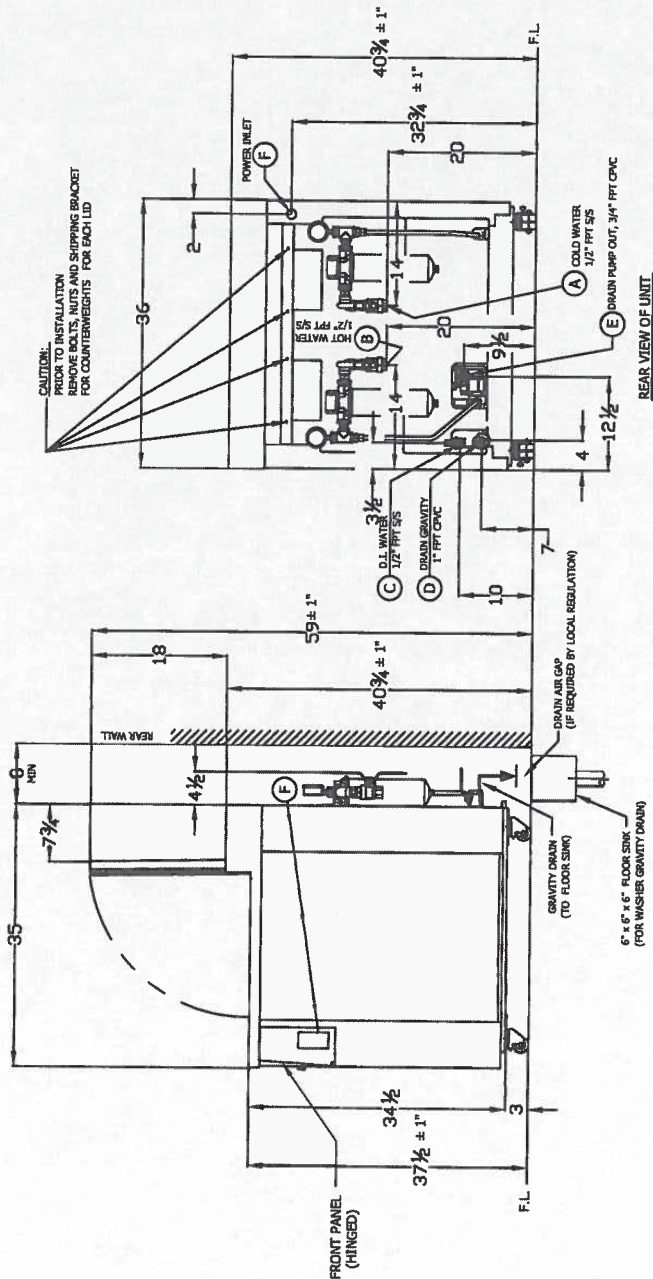
MODEL	POWER REQUIREMENTS (Amps)†		SONIC POWER (Watts)	SHIP WEIGHT	TANK FLUID CAPACITY	HEAT LOSS (BTU)	TRAY SIZE L x W x D*
	208 V						
	1 PH	3 PH					
CRP117	33.7	26.7	2000	1000 lb (454 kg)	17 gal (64 L)	300	24 x 14 x 3" (610 x 356 x 76 mm)

*Maximum tray size

†Amp value is actual current drain. Disconnect should be at least 25% more.



DATE 2-17-11 DRAWN BY YAKOV G. CHECKED BY _____ E.C.A. NO. 110054 DATE 3-25-11 REV. 0 DWG. NO. 136825-147



CAUTION !
 PRIOR TO INSTALLATION
 REMOVE BOLTS, NUTS AND SHIPPING BRACKET
 FOR COUNTERWEIGHTS AT UNIT REAR.

NOTES:
 1. SEE DOCUMENT: INSTALLATION SPECIFICATIONS AND UTILITY REQUIREMENTS
 2. ALL UTILITIES LOCATION DIMENSIONS ARE ± 1"
 3. LOCK ALL CASTERS AFTER INSTALLING THE UNIT IN PLACE

A - COLD TAP WATER, 1/2" FNPT, 40-50 PSI, 40-60°F
 B - HOT TAP WATER, 1/2" FNPT, 40-50 PSI, 110-120°F
 C - DEIONIZED WATER, 1/2" FNPT, 35-50 PSI, 65-120°F
 D - DRAIN, GRAVITY (TO FLOOR SINK), 1" CPVC, 20 GPM MAX. FLOW
 E - DRAIN, PUMP OUT, 3/4" CPVC, 20 GPM FLOW
 F - POWER CONNECTION:
 Route through opening at F to the terminal block located behind the hinged front panel.

SHT. 1 OF 3

STERIS	DWG. NO. 62941-091	STRESS Compensation Member, OH	GENERAL INSTALLATION LAYOUT DWG.	CAVIWAYE PRO 17V ULTRASONIC CLEANER	EQUIPMENT DRAWING NO. 136825-147
					ITEM LOCATION SD

Caviwave Pro 17- W INSTALLATION SPECIFICATIONS & UTILITY REQUIREMENTS

Installation Specifications:

1. The installation of the Caviwave Pro 17-W Washer must meet all Federal, State and Local regulations.
2. Installation specification is listed as Engineering and Installation Guides.
Referenced components and service connections are not furnished unless under written agreement with STERIS.
3. STERIS assumes no responsibility for changes made necessary through failure to observe the specifications on Equipment Drawing and notes. Specifications and descriptions are subject to change without notice.

Shipping Dimensions and Weight:

1. Shipping Container Dimensions : 44" x 46" x 55"
2. Approximate Washer and Container Shipping Weight: 1000 lbs
3. Washer Outer Dimensions : 36" x 35" x 41"

Environmental Parameters:

1. Approximate Washer Operating Weight - 900 lbs
(Unit weight + 17 gallons water + 35 lbs loaded instrument tray)
2. Approximate Heat Dissipated from Washer - 300 Btu
3. Approximate Washer Operational Noise Level - 67 to 75 dB
4. Washer Environment Range
 - Ambient Room Temperature - 50 °F (10 °C) to 105 °F (40 °C)
 - Room Relative Humidity - 30% to 75%
 - Room Atmospheric Pressure - 20.6 "Hg (700 mBar) to 31.3 "Hg (1060 mBar)
5. Service Clearance Considerations
 - Unit is on casters; removable panels are located on all sides
LOCK ALL CASTERS AFTER INSTALLING THE UNIT IN PLACE
 - Clearance on front side of unit should be depth of unit plus 24" min to allow unit to be moved out for servicing.
6. THE GAP BETWEEN THE BACK OF THE UNIT AND THE WALL (8" MIN) DEPENDENT
IN DEPTH ON THE PIPING AND CONNECTOR SYSTEMS EMPLOYED IN THE UTILITY CONNECTIONS.

Plumbing Utility Requirements:

1. Cold Tap Water
 - 40 to 50 PSI (2.8 to 3.45 Bar) ; 40 to 60 °F (4 to 16 °C)
 - 1/2" FPT , S.S.
2. Hot Tap Water
 - 40 to 50 PSI (2.8 to 3.45 Bar); 110 to 120 °F (43 to 49 °C)
 - 1/2" FPT , S.S.
3. Deionized Water
 - 35 to 50 PSI (2.5 to 3.45 Bar); 65 to 120 °F (18 to 49 °C)
 - 1/2" FPT , S.S.
4. Drain
 - Drain, (gravity) 10 GPM maximum flows, 1" CPVC Pipe; 120°F (49 °C) max. water temperature
 - Drain, (pump) 20 GPM maximum flows, 3/4" CPVC Pipe; 120°F (49 °C) max. water temperature

Note: See Equipment drawing for Drain plumbing instructions

6. Piping Installation Preparation

- Washer hook up piping should be performed by certified plumbing contractor in accordance to local codes. RECOMMEND USING FLEXIBLE UTILITY CONNECTIONS - IF ALLOWED BY APPLICABLE CODE (NECESSARY TO ALLOW UNIT TO BE MOVED FOR SERVICING).
 - Always blow down facility water and air lines before final connection to washer.
 - The washer is not supplied with a vacuum breaker or backflow preventer, and where required by local codes, installation of such a device in the water lines is by others.
 - STERIS does not provide piping components from washer to facility water or air utility piping source.
 - Facility water and air shut off valves must be nearby and within sight of the washer.
 - Shut off valves should be installed and labeled per facility plumbing guidelines.
 - Threaded water disconnects required;
- Unit must be disconnected from facility piping when servicing washer from back side.

Electrical Utility Requirements:

1. Nameplate Data

- Verify unit voltage configuration prior to installation
- Check unit Nameplate data tag at time of installation

2. Electrical Power Requirements

- The standard Caviwave Pro17-W configuration will operate on 208V/3PH/60HZ/26.7 AMPS

3. Electrical Disconnect Switch Box

- Facility electrical disconnect box must be nearby and within sight of the washer.
- Box should be installed to allow operator access and labeled with washer identification per facility guidelines.

4. Electrical Circuit Breaker Box Recommendations

- UL listed file E2875 & 154828 or comparable circuit breaker recommended.
- Circuit breaker should be 208/240V 40 Amp rated with lockable disconnect switch.

5. Electrical power connection to washer

- A grounding conductor must be connected to protective earth conductor terminal of the main control panel to provide the system with a proper earth ground. This conductor must be green or green with a yellow stripe and should be sized as follows - Minimum 10 AWG rated 90 °C
- The power supply connections must be connected through a proper disconnecting device to terminals 1L1, 1L2, 1L3, and N.
- Route power cable through F (see drawing) to terminal block located behind the hinged front panel.
- The system is designed to accept 208V/3PH /60HZ-26.7AMPS (or 208V/1PH/60HZ-33.7AMPS)

6. Electrical Power Cord/Cable Specifications

- Cable from washer to electrical switch box should be hard wired; plug and receptacle connection is not recommended.
- Power cord must be UL817 Compliant Green/Yellow conductors may only be used for connection to protective earth ground conductor terminals
- Always follow local electrical codes and safety-related work practices for wiring
- Power cable must allow unit to be moved away from the wall for servicing.

7. Electrical Installation Preparation

- Electrical wiring should be performed by certified electrical contractor in accordance to local codes.
- STERIS does not supply the electrical disconnect box.
- STERIS does not supply electrical power cord, or cable from washer to electrical disconnect box.

IG 2-15-2011

SEISMIC ANCHORAGE REPORT**STERIS®**

Reliance Ultrasonic Cleaning System
Caviwave Ultrasonic Cleaning System
Caviwave Pro Ultrasonic Cleaning System

P/N: 083280-220**REVISION RECORD**

Rev. Num.	Revision Date	PER/RA/ECA Number	Changed By	Engineering Approval	Manufacturing Approval
0	11-24-10	100261	K.J.P.	U.P.	J.C.M.
1	03-25-11	110054	P.B.	MAB	VGM
2	04-23-14	40512	ZSM	IN PLM	IN PLM

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Rev No.

2

Rev. Date

04-23-14

Drawing No.

83280-220

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STERIS Corporation

5900 Heisley Way

Mentor, OH 40060

Crest Ultrasonics Co., Yakov G. 4-25-2014

25542

RELIANCE ULTRASONIC CLEANING SYSTEM SONIC CLEANER

<u>Product Number</u>	<u>Model</u>	<u>Capacity</u>	<u>Equipment Drawing No.</u>
CRD101	11-W	11 Gal.	136825-043
CRD115	15-W	15 Gal.	136825-045

RELIANCE ULTRASONIC CLEANING SYSTEM SONIC CONSOLE WASHER/DRYER

<u>Product Number</u>	<u>Model</u>	<u>Capacity</u>	<u>Equipment Drawing No.</u>
CRD11LR	11-WRD LR	11 Gal.	136825-085
CRD11RL	11-WRD RL	11 Gal.	136825-085
CRD15LR	15-WRD LR	15 Gal.	136825-086
CRD15RL	15-WRD RL	15 Gal.	136825-086

CAVIWAVE ULTRASONIC CLEANING SYSTEM SONIC CLEANER

<u>Model</u>	<u>Capacity</u>	<u>Equipment Drawing No.</u>
CR101	11 Gal.	136825-058
CR115	15 Gal.	136825-060
CR12	20 Gal.	136825-062

CAVIWAVE ULTRASONIC CLEANING SYSTEM SONIC CONSOLE WASHER/DRYER

<u>Model</u>	<u>Capacity</u>	<u>Equipment Drawing No.</u>
CR2-01 LR	11 Gal.	136825-059
CR2-02 RL	11 Gal.	136825-059
CR2-15 LR	15 Gal.	136825-061
CR2-15 RL	15 Gal.	136825-061
	20 Gal.	136825-063
	20 Gal.	136825-063

CAVIWAVE PRO ULTRASONIC CLEANING SYSTEM SONIC CLEANER

<u>Model</u>	<u>Capacity</u>	<u>Equipment Drawing No.</u>
CAVI-DV-17	17 Gal.	136825-147

CAVIWAVE PRO ULTRASONIC CLEANING SYSTEM SONIC CONSOLE WASHER/DRYER

<u>Model</u>	<u>Capacity</u>	<u>Equipment Drawing No.</u>
CRP217LR	17 Gal.	136825-148

Rev No.

2

Rev. Date

04-23-14

Drawing No.

83280-220

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EQUIPMENT DESCRIPTION.

Reliance Ultrasonic Cleaning System Sonic Cleaner:

The Reliance Ultrasonic Cleaning System Sonic Cleaner is a freestanding instrument washer housed in a compact stainless-steel cabinet. The Sonic Cleaner contains all needed components to effectively clean (utilizing ultrasonic cavitation passing through a detergent-balanced wash solution) surgical instruments prior to disinfection and sterilization. The Sonic Cleaner is equipped with a manual opening lid.

Reliance Ultrasonic Cleaning System Sonic Console Washer/Dryer:

The Reliance Ultrasonic Cleaning System Sonic Console Washer/Dryer is a freestanding instrument washer, rinser, and dryer housed in a compact stainless-steel cabinet. The Sonic Console Washer/Dryer contains all needed components to effectively clean (utilizing ultrasonic cavitation passing through a detergent-balanced wash solution),thoroughly rinse, and adequately dry surgical instruments prior to disinfection and sterilization. The Console Washer/Dryer is equipped with manual opening lids. Cleaning and rinsing/drying chambers are positioned for either left-to-right or right-to-left workflow.

Caviwave Ultrasonic Cleaning System Sonic Cleaner:

The Caviwave Ultrasonic Cleaning System Sonic Cleaner is a freestanding instrument washer supplied in a compact stainless-steel cabinet. The Sonic Cleaner contains all needed components to effectively clean (utilizing ultrasonic cavitation passing through a detergent-balanced wash solution) surgical instruments prior to disinfection and sterilization. The Sonic Cleaner is equipped with an automatic opening lid and load elevator for easy and safe instrument loading.

Caviwave Ultrasonic Cleaning System Sonic Console Washer/Dryer:

The Caviwave Ultrasonic Console Washer/Dryer is a freestanding instrument washer, rinser and dryer supplied in a compact stainless-steel cabinet. The Sonic Console Washer/Dryer contains all needed components to effectively clean (utilizing ultrasonic cavitation passing through a detergent-balanced wash solution) thoroughly rinse and adequately dry surgical instruments prior to disinfection and sterilization. The console washer/dryer is equipped with an automatic opening lids and load elevators for easy and safe instrument loading. Cleaning and rinsing/drying chambers are positioned for either left-to-right or right-to-left workflow.

Caviwave Pro Ultrasonic Cleaning System Sonic Cleaner:

The Caviwave Pro Ultrasonic Cleaning System Sonic Cleaner is a freestanding instrument washer housed in a compact stainless-steel cabinet. The Sonic Cleaner contains all needed components to effectively clean (utilizing ultrasonic cavitation passing through a detergent-balanced wash solution) up to ten EndoWrist and Laproscopic surgical devices or collection of regular surgical instruments prior to disinfection and sterilization. The Sonic Cleaner is equipped with a powered opening lid and touch screen control.

Caviwave Pro Ultrasonic Cleaning System Sonic Console Washer/Dryer:

The Caviwave Pro Ultrasonic Cleaning System Sonic Console Washer/Dryer is a freestanding instrument washer housed in a compact stainless-steel cabinet. The Sonic Console Washer/Dryer contains all needed

Rev No. 2	Rev. Date 04-23-14	Drawing No. 83280-220	Page 3 of 4
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components to effectively clean (utilizing ultrasonic cavitation passing through a detergent-balanced wash solution) up to ten EndoWrist and Laproscopic surgical devices or collection of regular surgical instruments prior to disinfection and sterilization. The Console Washer/Dryer is equipped with powered opening lids and a touch screen control. Cleaning and rinsing/drying chambers are positioned for either left-to-right or right-to-left workflow.

REPORT SUMMARY

Attached to this report are reproductions of the equipment anchorage for the entire Ultrasonic Cleaning Systems.

This document can be freely accessed by the public at the OSHPD website under OPM-0070-13.

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APPLICATION FOR OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY	
APPLICATION #:	OPM-0070-13

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: New Renewal Update to Pre-CBC 2013 OPA Number: OPA-1942-07

Manufacturer Information

Manufacturer: Crest Ultrasonics

Manufacturer's Technical Representative: Zach Miday

Mailing Address: STERIS Corporation, 5900 Heisley Rd, Mentor, Ohio 44060

Telephone: 440-392-7688 Email: Zachary.Miday@Steris.com

Product Information

Product Name: Crest Ultrasonic Cleaner

Product Type: Hospital Series Consoles OPM-0070-13

Product Model Number: 11W, 11WRD, 15W, 15WRD, 17W, 17WRD, 20W, 20WRD

General Description: Ultrasonic cavitation provides an intense "scrubbing action," which leads to cleaning speed and consistency when compared with simple soaking or immersion with agitation. Ultrasonic energy causes alternating patterns of low- and high-pressure phases.

Applicant Information

Applicant Company Name: ISAT Seismic Bracing

Contact Person: William V Joerger

Mailing Address: 1020 Crews Road, Suite Q, Matthews NC 28105

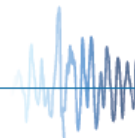
Telephone: 510-714-0216 Email: wvjoerger@isatsb.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.

Signature of Applicant:  Date: January 03, 2014

Title: Principal Structural Engineer Company Name: ISAT Seismic Bracing

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dvnamic Needs"



Registered Design Professional Preparing Engineering Recommendations

Company Name: ISAT Seismic Bracing

Name: William V Joerger+ California License Number: S4545

Mailing Address: 1020 Crews Rd, Matthews NC 28105

Telephone: 510-714-0216 Email: wvjoerger@isatsb.com

OSHPD Special Seismic Certification Preapproval (OSP)

- Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required)
Special Seismic Certification is no preapproved

Certification Method(s)

- Testing in accordance with: ICC-ES AC156 FM 1950-10
Other* (Please Specify): Equipment is considered to be rugged. OPM is for anchorage to concrete slabs.

*Use of criteria other than those adopted by the California Building Standards Code, 2013 (CBSC 2013) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2013 may be used when approved by OSHPD prior to testing.

- Analysis
Experience Data
Combination of Testing, Analysis, and/or Experience Data (Please Specify):

List of Attachments Supporting the Manufacturer's Certification

- Test Report Drawings Calculations Manufacturer's Catalog
Other(s) (Please Specify):

OFFICE USE ONLY - OSHPD APPROVAL VALID FOR CBC 2013 ONLY

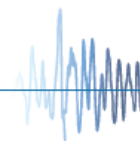
Signature: [Signature] Date: February 12, 2014

Print Name: Jeffrey Y. Kikumoto

Title: Senior Structural Engineer

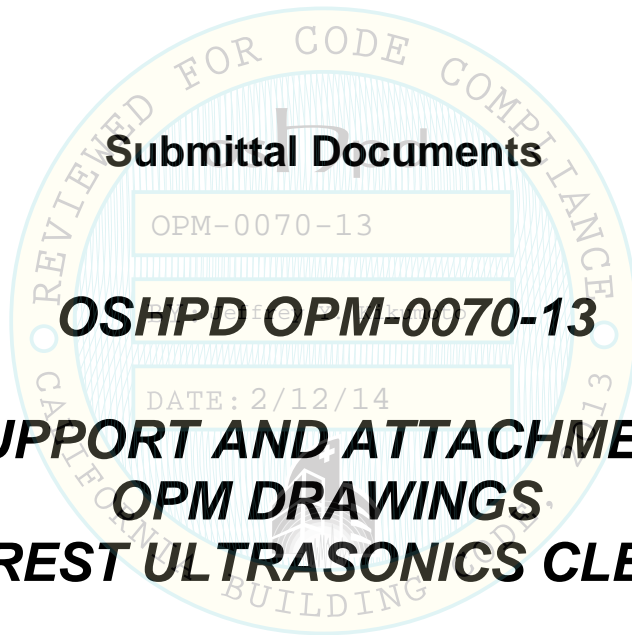
Condition of Approval (if applicable):

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"





**INTERNATIONAL SEISMIC
APPLICATION TECHNOLOGY**



Submittal Documents

OPM-0070-13

OSHPD OPM-0070-13

DATE: 2/12/14

**SUPPORT AND ATTACHMENT
OPM DRAWINGS
FOR CREST ULTRASONICS CLEANERS**

CREST ULTRASONICS

ISAT
1020 Crews Road Suite Q
Matthews, N.C. 28105
704-841-4080



FILE NO.: CLT-1113-152a

"Empowered by Experience"

REV 3



OSHPD OPM-0070-13

DRAWING INDEX

DRAWING INDEX

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Crest Ultrasonics Equipment Attachment for Slab-On-Grade	p 4
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OSHPD OPM-0070-13

MANUFACTURE: CREST ULTRASONICS CLEANER

EQUIPMENT TYPE: HOSPITAL SERIES CONSOLES

GENERAL NOTES FOR ATTACHMENT TO SLAB ON GRADE:

1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2013. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013.
2. SEISMIC CRITERIA USED: $S_{DS} = 2.5$ $I_p = 1.5$ $a_p = 1.0$ $R_p = 2.5$ (WET SIDE COMPONENT) $z/h = 0.0$ $F_{pHorz} = 1.13 W_p$ $F_{pVertical} = 0.50 W_p$.
3. SUPPORT AND ATTACHMENT FORCES ARE DETERMINED USING ASCE 7-10 CHAPTER 13 "SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS". AN OVERSTRENGTH FACTOR $\Omega_0 = 2.5$ IS USED FOR CONCRETE ANCHORAGE FORCES PER ASCE 7-10 SUPPLEMENT 1 TABLE 13.6-1. LOADS SHOWN ARE STRENGTH DESIGN LOADS PER CBC 2013 SECTION 1909A.
4. TABULATED ANCHOR TENSION FORCES WERE INCREASED BY A FACTOR OF 1.8 TO ACCOUNT FOR PRYING AT THE ATTACHMENT.
5. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
6. THIS PREAPPROVAL IS FOR CONCRETE SLAB AT GRADE OR BELOW FOR THE DEMAND LOADS SHOWN WHERE $z/h = 0$ AND $S_{DS} \leq 2.5$. REFER TO "ELEVATED SLAB LAYOUT" AND "ELEVATED SLAB NOTES" FOR OTHER CONDITIONS THAT ARE PART OF OPM-0070-13.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD

1. CONFIRM THE MATERIAL PROPERTIES AND THICKNESS OF THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ATTACHED MEETS THE REQUIREMENTS OF ICC-ES ESR-1917.
2. PROVIDE A PLAN FOR ANCHORAGE INSPECTION AND VERIFY ITS IMPLEMENTATION.
3. CONFIRM THE SPECIFIED MINIMUM CONCRETE EDGE DISTANCES ARE MAINTAINED BASED ON THE ACTUAL EQUIPMENT LOCATION. VERIFY THAT EXISTING OR NEW ANCHORS ARE AN ADEQUATE DISTANCE FROM THIS UNIT'S ATTACHMENT. CHECK FOR POST-INSTALLED ANCHOR INTERACTION WHERE OTHER ANCHORS ARE WITHIN $6 h_{ef} = 19.5"$.
4. VERIFY THAT THE EXISTING STRUCTURE IS ADEQUATE FOR THE IMPOSED DEAD, LATERAL AND OVERTURNING FORCES SHOWN IN ADDITION TO ALL OTHER LOADS.
5. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH CBC 2013 AND WITH THE OPM-0700-13 DETAILS. MATERIALS AND GAGE OF THE UNIT WHERE THE ATTACHMENTS ARE MADE TO AGREE WITH THE INFORMATION SHOWN.
6. VERIFY THAT THE PROJECT SPECIFIC S_{DS} AND h/z VALUES RESULT IN SEISMIC FORCES (E_h AND E_v) DO NOT EXCEED THE VALUES SHOWN IN THESE DETAILS.

DATE: SLAB-ON-GRADE ANCHOR

ANCHOR TYPE	ICC-ES ESR NO.	CONCRETE TYPE	MIN. CONC. STRENGTH	DIA	HOLE DEPTH	MIN. SLAB THICKNESS	MIN. SPACING	MIN. EDGE DISTANCE	INSTALLATION TORQUE
HILTI KWIK BOLT TZ	1917	NORMAL WT	3000 PSI	0.50"	4"	6"	6"	6"	40 FT-LBS

OPM-0070-13

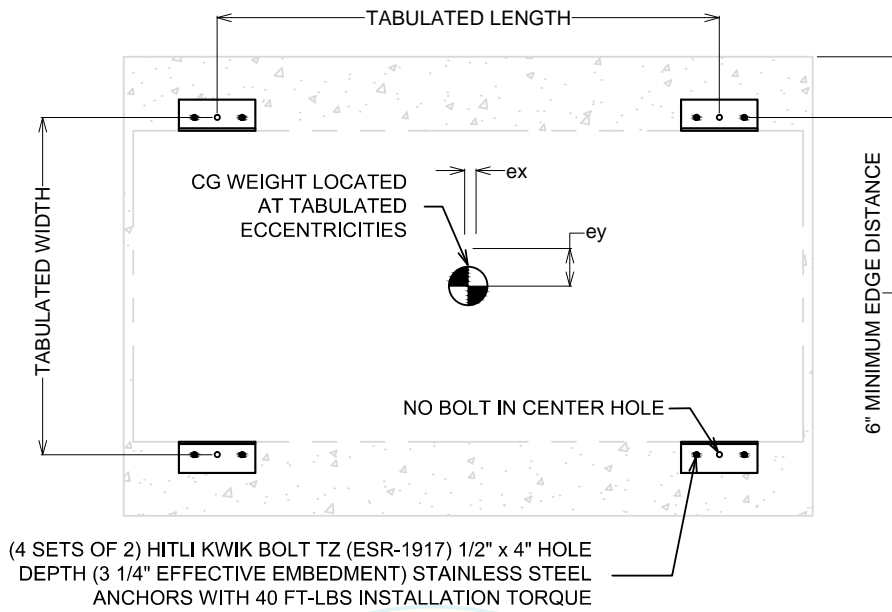
CREST ULTRASONICS SLAB-ON-GRADE NOTES

SEE EQUIPMENT LAYOUT FOR ATTACHMENT PLAN AND EQUIPMENT ELEVATION

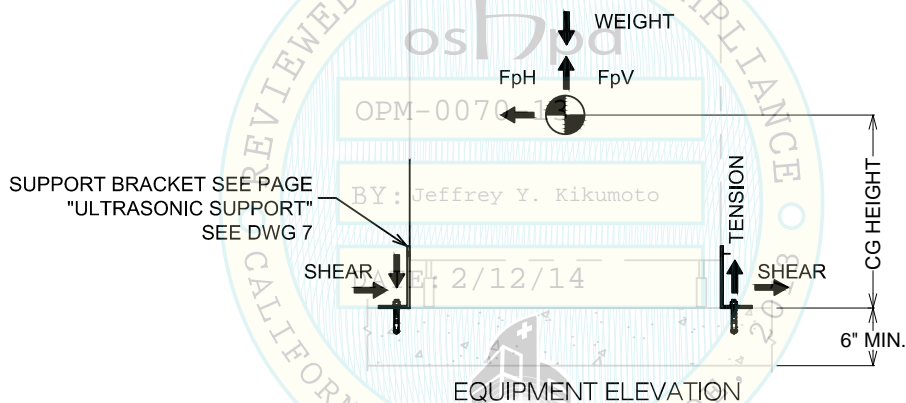


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 1020 Crews Road, Suite Q, Matthews, NC 28105
 704-841-4080 www.isatsb.com

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SCHEMATIC ATTACHMENT PLAN



OPM-0070-13

CREST ULTRASONICS EQUIPMENT ATTACHMENT LAYOUT FOR SLAB-ON-GRADE
SEE "GRADE NOTES" FOR NOTES AND "FORCES" FOR DIMENSIONS AND FORCES



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OSHPD OPM-0070-13

MANUFACTURE: CREST ULTRASONICS CLEANER
EQUIPMENT TYPE: HOSPITAL SERIES CONSOLES

GENERAL NOTES FOR ATTACHMENT TO ELEVATED SLABS:

1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2013. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013.
2. SEISMIC CRITERIA USED: $S_{DS} = 2.5$ $I_p = 1.5$ $a_p = 1.0$ $R_p = 2.5$ (WET SIDE COMPONENT) $z/h = 0.0$ $F_{pHorz} = 1.80 W_p$ $F_{pVertical} = 0.50 W_p$.
3. SUPPORT AND ATTACHMENT FORCES ARE DETERMINED USING ASCE 7-10 CHAPTER 13 "SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS". AN OVERSTRENGTH FACTOR $\Omega_0 = 2.5$ IS USED FOR CONCRETE MATERIALS AND $\Omega_0 = 1.0$ FOR STEEL MATERIALS PER ASCE 7-10 SUPPLEMENT 1 TABLE 13.6-1. LOADS SHOWN ARE STRENGTH DESIGN LOADS PER CBC 2013 SECTION 1909A.
4. USE (4) 0.50" HOT DIPPED GALVANIZED THROUGH BOLTS TO A SUPPLEMENTAL STEEL MEMBER BELOW. DETAILS OF THE SUPPLEMENTAL STEEL AND CONNECTIONS TO STRUCTURE ARE SHOWN ON PAGE "SUPPLEMENTAL STEEL".
 - a. THROUGH BOLTS ARE TO BE TORQUED BY 3/4 TURN OF THE NUT AFTER SNUG TIGHT CONDITION IS ACHIEVED. SNUG TIGHT CONDITION IS DEFINED AS THE THIGHTNEE REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.
 - b. THROUGH BOLT HOLES SHALL BE 1/16" LARGER THAN THE BOLT SIZE (HOLE SIZE = BOLT SIZE + 1/16") FOR BOTH THE STEEL AND CONCRETE.
 - c. THROUGH BOLTS WITH STEEL-TO-STEEL CONNECTION IN TENSION DO NOT REQUIRE TESTING.
5. TABULATED ANCHOR TENSION FORCES WERE INCREASED BY A FACTOR OF 1.8 TO ACCOUNT FOR PRYING AT THE ATTACHMENT.
6. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
7. THIS PREAPPROVAL IS FOR ELEVATED CONCRETE SLABS FOR THE DEMAND LOADS SHOWN WHERE $z/h = 1$ AND $S_{DS} \leq 2.5$. REFER TO "SLAB-ON-GRADE LAYOUT" AND "SLAB-ON-GRADE NOTES" FOR OTHER CONDITIONS THAT ARE PART OF OPM-0070-13.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD

1. CONFIRM THE MATERIAL PROPERTIES AND THICKNESS OF THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ATTACHED MEETS THE REQUIREMENTS OF THIS OPM.
2. PROVIDE A PLAN FOR ANCHORAGE INSPECTION AND VERIFY ITS IMPLEMENTATION.
3. CONFIRM THE SPECIFIED MINIMUM CONCRETE EDGE DISTANCES ARE MAINTAINED BASED ON THE ACTUAL EQUIPMENT LOCATION. VERIFY THAT EXISTING OR NEW ANCHORS ARE AN ADEQUATE DISTANCE FROM THIS UNIT'S ATTACHMENT.
4. VERIFY THAT THE EXISTING STRUCTURE IS ADEQUATE FOR THE IMPOSED DEAD, LATERAL AND OVERTURNING FORCES SHOWN IN ADDITION TO ALL OTHER LOADS.
5. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH CBC 2013 AND WITH THE OPM-0700-13 DETAILS. MATERIALS AND GAGE OF THE UNIT WHERE THE ATTACHMENTS ARE MADE TO AGREE WITH THE INFORMATION SHOWN.
6. VERIFY THAT THE PROJECT SPECIFIC S_{DS} AND h/z VALUES RESULT IN SEISMIC FORCES (E_h AND E_v) DO NOT EXCEED THE VALUES SHOWN IN THESE DETAILS.

OPM-0070-13

CREST ULTRASONICS EQUIPMENT ATTACHMENT NOTES FOR ELEVATED SLABS
SEE "ELEV LAYOUT" FOR DIMENSIONS AND ATTACHMENT FORCES

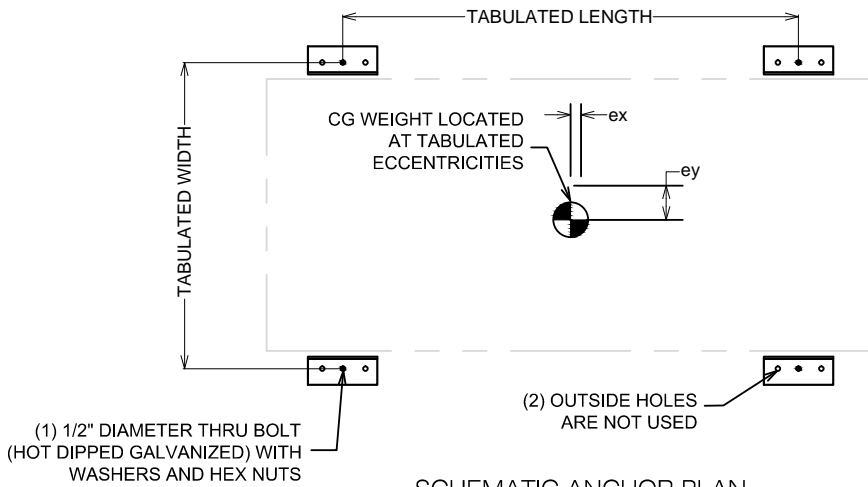


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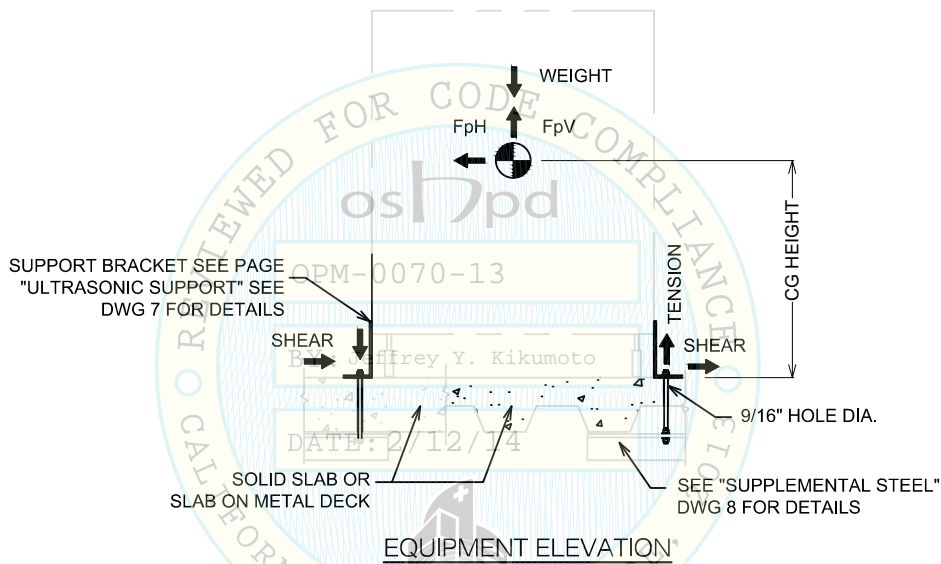


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SCHEMATIC ANCHOR PLAN



EQUIPMENT ELEVATION

OPM-0070-13

CREST ULTRASONICS EQUIPMENT ATTACHMENT LAYOUT FOR ELEVATED SLABS
 SEE "ELEV NOTES" FOR NOTES AND "FORCES" FOR DIMENSIONS AND FORCES



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PAGE
 ELEV LAYOUT

OSHPD OPM-0070-13

MANUFACTURE: CREST ULTRASONICS CLEANER

EQUIPMENT TYPE: HOSPITAL SERIES CONSOLES

ATTACHMENT GENERAL NOTES:

1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2013. THE DEMAND (DESIGN
2. SEE "SLAB-ON-GRADE NOTES" AND "ELEVATED SLAB NOTES" FOR SEISMIC CRITERIA USED.

SLAB-ON-GRADE NOTES:

3. USE (8) HILTI KWIK BOLT TZ (ICC-ES ESR-1917 FOR MAY 2013) 0.50" x 4" HOLE DEPTH (3.25" EFFECTIVE EMBEDMENT) STAINLESS STEEL ANCHORS IN A CONCRETE SLAB WITH A MINIMUM THICKNESS OF 6 INCH; 40 FT-LBS INSTALLATION TORQUE. MINIMUM EDGE DISTANCE AND SPACING = 6".
4. CONCRETE USED FOR DESIGN IS A NORMAL WEIGHT SLAB WITH A MINIMUM F'c = 3000 PSI AT 28 DAYS AND A MINIMUM THICKNESS OF 6 INCHES.
5. PERIODIC SPECIAL INSPECTION PER CBC 2013 SECTION 1705A AND TABLE 1705A INCLUDING VERIFICATION OF ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, ANCHOR SPACING, EDGE DISTANCES, CONCRETE MEMBER THICKNESS, TIGHTENING TORQUE, HOLE DIMENSIONS, ANCHOR EMBEDMENT AND ADHERENCE TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. IN ADDITION, FOLLOW THE PROVISIONS OF THE 2013 CALIFORNIA BUILDING CODE SECTION 1916A.7.2 BY CONFIRMING THE INSTALLATION TORQUE SPECIFIED BY THE MANUFACTURER. TESTING IS NOT TO OCCUR UNTIL A MINIMUM OF 24 HOURS HAS ELAPSED AFTER THE INSTALLATION OF THE SUBJECT ANCHORS. TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR. TEST 50% OF THE ANCHORS FOR EACH PIECE OF EQUIPMENT. USING A CALIBRATED TORQUE WRENCH VERIFY THE INSTALLATION TORQUE IS OBTAINED WITHIN 1/2 TURN OF THE NUT. REPORT OF TEST REPORTS ARE TO BE SUBMITTED TO OSHPD.

ELEVATED SLAB NOTES:

6. USE (4) 0.50" HOT DIPPED GALVANIZED STEEL THROUGH BOLTS TO SUPPLMENTAL STEEL MEMBER BELOW. DESIGN OF THE SUPPLEMENTAL STEEL AND CONNECTIONS TO THE STRUCTURE ARE SHOWN ON PAGE "SUPPLEMENTAL STEEL".
 - a. THROUGH BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUT AFTER SNUG TIGHT CONDITION IS ACHIEVED (UNLESS OTHERWISE NOTED). SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.
 - b. THROUGH BOLT HOLES SHALL BE 1/16" LARGER THAN THE BOLTS SIZE (HOLE SIZE = BOLT SIZE + 1/16") FOR BOTH STEEL AND CONCRETE.
 - c. THROUGH BOLTS WITH STEEL-TO-STEEL CONNECTION IN TENSION DO NOT REQUIRE TESTING.
 - d. USE ONE NUT AND WASHER ON EACH END. WHERE BOLT OCCURS IN THE OPEN AREA OF THE METAL DECK PROVIDE AN ADDITIONAL NUT AND WASHER ON TOP OF THE SUPPLEMENTAL STEEL MEMBER, SEE DWG 8.

OPM-0070-13

CREST ULTRASONICS ATTACHMENT NOTES

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OSHPD OPM-0070-13

MANUFACTURE: CREST ULTRASONICS CLEANER

EQUIPMENT TYPE: HOSPITAL SERIES CONSOLES

ULTRASONIC CLEANERS AT GRADE OR BELOW (FpH = 1.13 WEIGHT)							ATTACHMENT FORCES -LB5	
Model	Length	Width	CG Height	ex	ey	Weight Lbs	Tension	Shear
11W	21.25"	33.25"	26.5"	0"	0.75"	660	1157	233
11WRD	51.25"	33.25"	26.5"	0"	0.75"	1265	1568	447
15W	21.25"	33.25"	26.5"	0"	0.25"	770	1315	272
15WRD	51.25"	33.25"	26.5"	0"	0.75"	1375	1653	486
17W	21.5"	35.25"	26.5"	0"	0.25"	990	1637	350
17WRD	52.5"	35.25"	26.5"	0"	0"	1485	1730	524
20W	21.5"	35.25"	26.5"	0"	0.25"	935	1546	330
20WRD	52.5"	35.25"	26.5"	0"	0.25"	1430	1666	505
ULTRASONIC CLEANERS AT ELEVATED 5LAB5 (FpH = 1.80 WEIGHT)							ATTACHMENT FORCES -LB5	
Model	Length	Width	CG Height	ex	ey	Weight Lbs	Tension	Shear
11W	21.25"	33.25"	26.5"	0"	0.75"	660	1544	743
11WRD	51.25"	33.25"	26.5"	0"	0.75"	1265	1988	1423
15W	21.25"	33.25"	26.5"	0"	0.25"	770	1757	866
15WRD	51.25"	33.25"	26.5"	0"	0.75"	1375	2095	1547
17W	21.5"	35.25"	26.5"	0"	0.25"	990	2192	1114
17WRD	52.5"	35.25"	26.5"	0"	0"	1485	2193	1671
20W	21.5"	35.25"	26.5"	0"	0.25"	935	2070	1052
20WRD	52.5"	35.25"	26.5"	0"	0.25"	1430	2112	1609

BY: Jeffrey Y. Kikumoto

DATE: 2/12/14

OPM-0070-13

CREST ULTRASONICS ATTACHMENT FORCES



International Seismic Application Technology
 1020 Crews Road, Suite Q, Matthews, NC 28105
 704-841-4080 www.isatsb.com

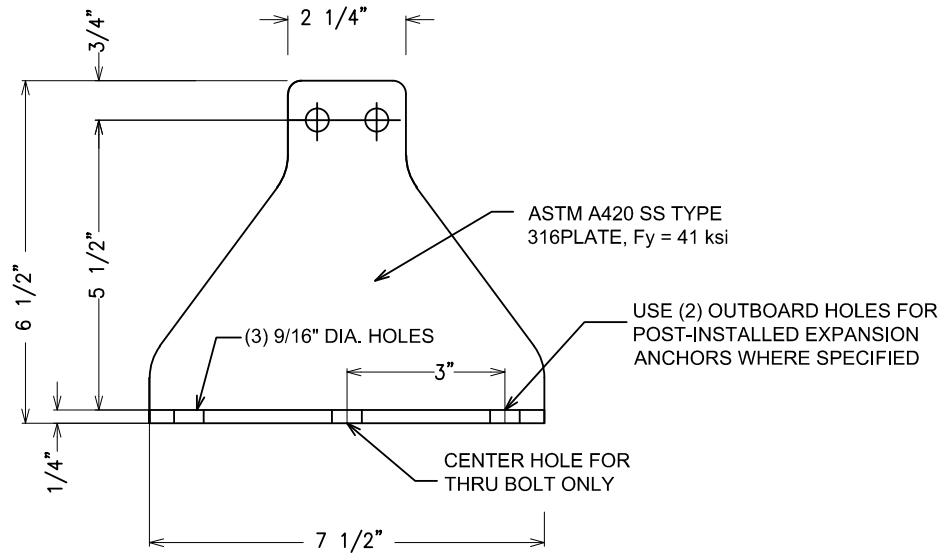


DRAWN BY: WVJ
DATE:

REVISED BY: WVJ
DATE: 02/04/14
REV NO: 0

SCALE
 N.T.S.

PAGE
 FORCES



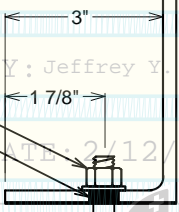
BRACKET ELEVATION

7/16" HOLES FOR 3/8"-18 SS BOLTS
ASTM A193 GRADE B8M, FLAT WASHER
ASTM A240 AND SS LOCK WASHER

12 GAGE ASTM A420 TYPE SS 316 (Fy = 41 KSI)
CLEANER BASE MATERIAL FRAME WITH SS
THREADED CONNECTION WELDED TO FRAME

1/2" GALV. BOLT ASTM A307 OR
ASTM A36 ALL THREAD ROD
WITH WASHER AND NUT

9/16" HOLE DIA.



SECTION AT EQUIPMENT

OPM-0070-13

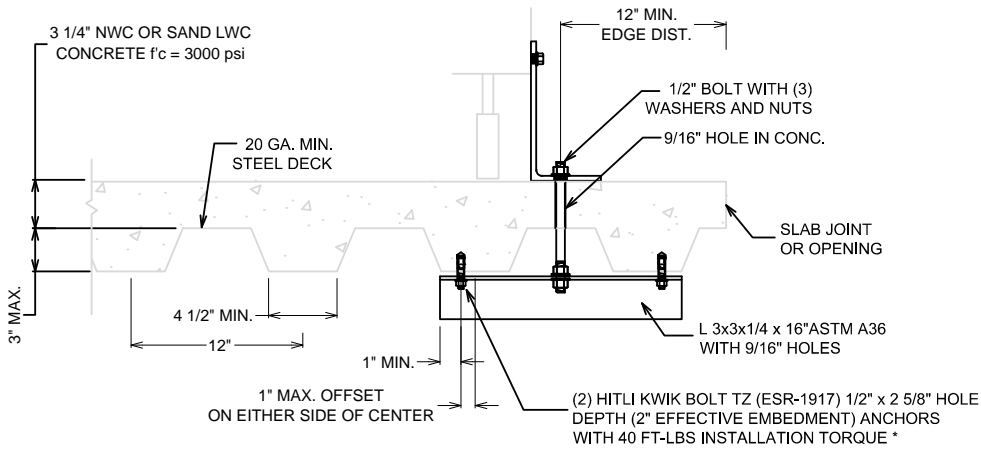
CREST ULTRASONICS EQUIPMENT SUPPORT DETAIL



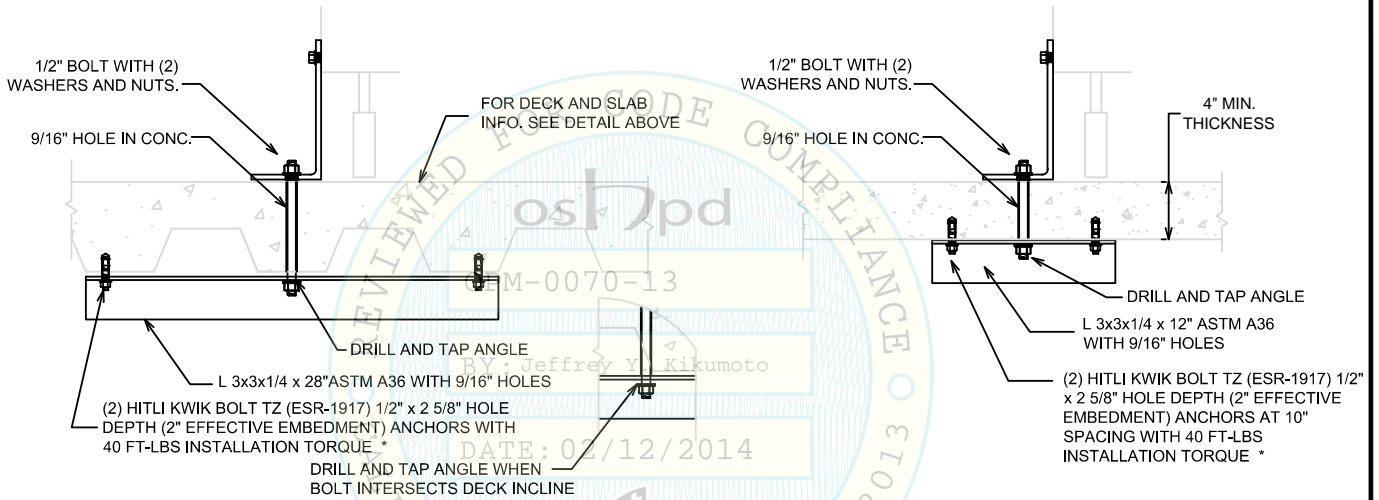
International Seismic Application Technology
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DATE: 1/13/14	
REVISED BY: WVJ	
DATE: 02/04/14	
REV NO: 1	
SCALE N.T.S.	PAGE SUPPL STEEL



DETAIL FOR ATTACHMENT BOLT BETWEEN FLUTES



DETAIL FOR ATTACHMENT BOLT AT THE SIDE OF THE FLUTE OR AT THE BOTTOM FLUTE

DETAIL FOR ATTACHMENT BOLT AT SOLID CONCRETE SLABS

OPM-0070-13

CREST ULTRASONICS SUPPLEMENTAL STEEL DETAIL AT ELEVATED SLABS

* TESTING: SEE SLAB ON GRADE NOTES, NOTE NO. 5 ON PAGE "ATTACHMENT NOTES"



International Seismic Application Technology
 1020 Crews Road, Suite Q, Matthews, NC 28105
 704-841-4080 www.isatsb.com



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DATE: 1/13/14	
REVISED BY: WVJ	
DATE: 04/16/14	
REV NO: 3	
SCALE N.T.S.	PAGE SUPPL STEEL



Cut Sheet Summary

GBA Id **999-04**

Item **Chemical Dispensing System, Acu-Hold Container, 3 Pump Delivery System**

Manufacturer **Steris**

Model **PROLYSTICA ACU-HOLD AL-2003**



Image shown may vary in color or finish from actual item to be purchased.

Physical	Electrical	Plumbing/Mechanical	Responsibilities
Height ("): 14.00	<input type="checkbox"/> Multiple Elec Reqs	<input type="checkbox"/> Medical Gas	Furnished by: Owner
Width ("): 10.25	Voltage: 120	<input type="checkbox"/> Compressed Air	New Install: Med Equip Vendor
Depth ("): 6.00	Hertz: 60	<input type="checkbox"/> External Exhaust	Existing Install: N/A
Weight (lb):	Phase: 1	<input type="checkbox"/> Ventilation	Deinstall/Move: N/A
Operating Wt (lb):	Amps:	<input type="checkbox"/> Building Steam	<input checked="" type="checkbox"/> Contractor Rough-In
	Watts:	<input type="checkbox"/> Integral Steam Generator	
	Volt Amps:	<input type="checkbox"/> Cold Water	
Installation / Placement	Breaker Size:	<input type="checkbox"/> Hot Water	Notes
Placement: WallMount	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Treated Water	<input checked="" type="checkbox"/> Critical Path Item
<input type="checkbox"/> Component System	<input type="checkbox"/> Emergency	<input type="checkbox"/> Drain	<input type="checkbox"/> Refer to Vendor Dwg
	<input type="checkbox"/> Hard-wired <input checked="" type="checkbox"/> Power Cord	BTUs/Hr:	<input checked="" type="checkbox"/> See Mfgr Cut Sheets
Seismic Anchorage	NEMA:		<input checked="" type="checkbox"/> Dimensions may be rounded; see vendor sheets
Type: Vendor Installed Connection	Network Connection:		N/A Responsibilities = No Qty (New /Existing)
Pre-apprvl #:	<input type="checkbox"/> Cable TV		
	<input type="checkbox"/> Analog Phone Line		
	<input type="checkbox"/> Remote Alarm		

Comments:

3-Pump Delivery System With Bottle Holders Located Underneath. 120V - 1.0 Amp Receptacle With Ground. Delivery System To Be Within 4 Ft Of Power Outlet. Delivery System Should Be Mounted No More Than 5 Ft Off Floor. Delivery System To Be Mounted Above The Prolystica Bottle Holders. Use Wire Ducting To Channel All Tubing, Power Cord And Communications Cable. Low Level Sensors To Be Tie Wrapped To Chemical Suction Tubing. Cable And Tubing Between Washer And Delivery System Supplied Separately. Customize Lengths As Required On Site.

The information provided on this summary sheet is based on the data contained on the manufacturer cut sheet(s) that follow. It is the responsibility of the recipient to review the manufacturer's cut sheets for complete information. All specifications included in this document are subject to change without notice by the manufacturer.

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AL-2000 CHEMISTRY DELIVERY SYSTEM

APPLICATION

The AL-2000 Chemistry Delivery System provides an automated solution for delivering Prolystica® Ultra Concentrate Chemistries to Washer/Disinfectors. The precision of the peristaltic pump design maintains accurate delivery of solution from 1/40 to 1/10 oz/gal (0.2 to 0.8 mL/L) from distances up to 150 feet (45.7 m). Use this special delivery system on all Reliance and Hamo Washer/Disinfectors, as well as on washer/disinfectors from other manufacturers.

DESCRIPTION

The AL-2000 is a high precision electronic delivery system designed exclusively for STERIS Prolystica Ultra Concentrated Chemistries. The system interfaces and delivers chemistries on all STERIS equipment and competitive washer/disinfectors.

SIZE (W x H x D)

AL-2002 - 2 Pump Delivery System

6-13/16 x 13-9/16 x 5-11/16" (172 x 336 x 145 mm)

AL-2003 - 3 Pump Delivery System

10-1/4 x 13-9/16 x 5-11/16" (260 x 336 x 145 mm)

STANDARDS

AL-2000 Chemistry Delivery System meets the applicable requirements for the following:

- **CAN/CSA - C22.2 No. 61010-1-04**
- **UL Standard 61010-1 (2nd Edition)**
- **CE Mark**

FEATURES

Unique microprocessor pump controller

interfaces to the washer's chemical pump power outputs and low supply sensors through a customized washer interface module mounted inside the washer. Service friendly electrical connectors make washer interfacing simple and easy for the technician.

Precise speed controlled peristaltic metering pumps provide optimal accuracy for delivering ultra concentrated chemistries for any



(Typical only - some details may vary.)

preprogrammed wash cycle. A simple calibration procedure requires calibration to 30 or 120 me per minute flow rates that enable precise washer control over delivery quantities.

Low supply audible alarm function at delivery system is also communicated to the washer through the washer interface module.

Bright pump signal LEDs illuminate whenever a pump signal from the washer is present. If the LED is not on, the pump will not operate and vice versa. Low supply sensor LEDs also indicate when the float switch on the low supply sensor senses a chemical container low level situation.

Pumps can dose in the default "relay" mode for STERIS equipment or "signal" mode for all other washers.

Typical AL-2000 Chemistry Delivery System configuration:

- Washer Interface Module (connects to washer pumps and level sensor inputs/outputs)
- Main Control with Pumps
- Low Wash Chemical Supply Sensors
- Three-Way Calibration Valve with Chamber Injection Tubing
- Delivery Station Protective Wire Duct
- Separate Install Kit, including Chemical Feed Lines and Signal Cable

The Selections Checked Below Apply To This Equipment

CONFIGURATIONS

- AL-2002 - 2 Pump Delivery System
- AL-2003 - 3 Pump Delivery System

ACCESSORIES

- Prolystica Ultra Concentrate Enzymatic Cleaner
- Prolystica Ultra Concentrate Neutral Detergent
- Prolystica Ultra Concentrate Alkaline Detergent
- Prolystica Ultra Concentrate Lubricant

Item _____
 Location(s) STERIS H11409,c1r4, Item 20

ACCESSORIES

Prolystica® Ultra Concentrate Enzymatic Cleaner: Provides superior cleaning performance against blood, mucous and the most challenging fatty soils, with a dual enzyme system that works exceptionally well within a range of water qualities and types. Use dilutions from 1/40 to 1/10 oz/gal (0.2 to 0.8 mL/L).

Prolystica® Ultra Concentrate Neutral Detergent: Built-in corrosion inhibitors protect instruments and prolong washer life, while chelating and sequestering agents protect instrumentation and enhance cleaning performance within a broad range of water quality and type. Use dilutions from 1/40 to 1/10 oz/gal (0.2 to 0.8 mL/L).

Prolystica® Ultra Concentrate Alkaline Detergent: Exceptional cleaning with built-in corrosion inhibitors and chelating and sequestering agents to protect instruments and cleaning performance, over a broad range of water quality.

Prolystica® Ultra Concentrate Lubricant: This special formula is non-silicone based so steam or EO sterilization steps are not compromised. Use dilutions from 1/40 to 1/10 oz/gal (0.2 to 0.8 mL/L).

UTILITY REQUIREMENTS

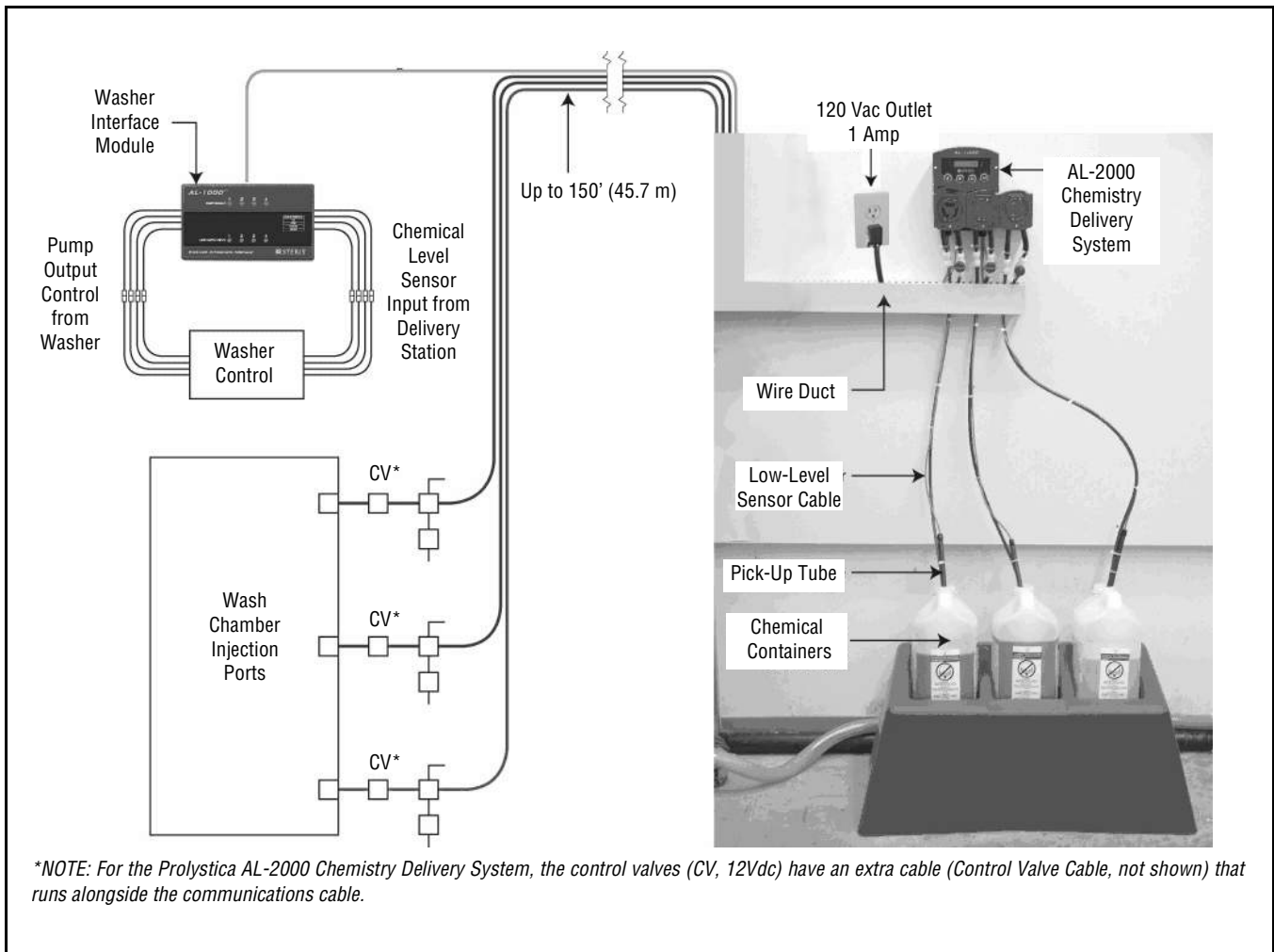
120 Vac 1.0 Amp Receptacle with Ground.

NOTES

1. Delivery system to be within four feet (1.2 m) of power outlet. MUST BE 120 Vac 1.0 AMP CAPACITY GROUNDED.
2. Delivery System should be mounted no more than five feet (1.5 m) off the floor.
3. Delivery System to be mounted above Prolystica containers.
4. Use wire ducting to channel all tubing, power cord and communication cable.
5. Low Level Sensors to be tie wrapped to chemical suction tubing.
6. Cable and tubing between washer and delivery system supplied separately. Customize lengths as required on site.

CUSTOMER IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE LOCAL, STATE AND NATIONAL CODES AND REGULATIONS.

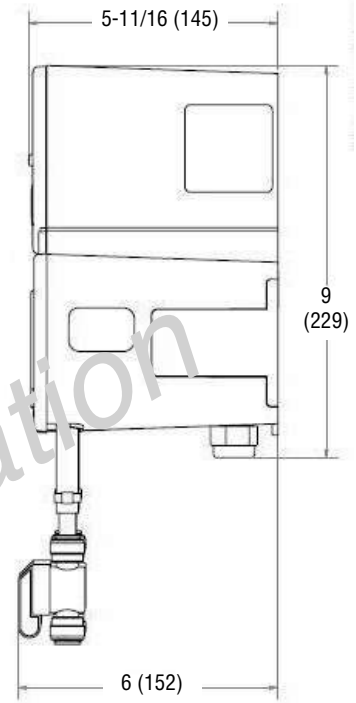
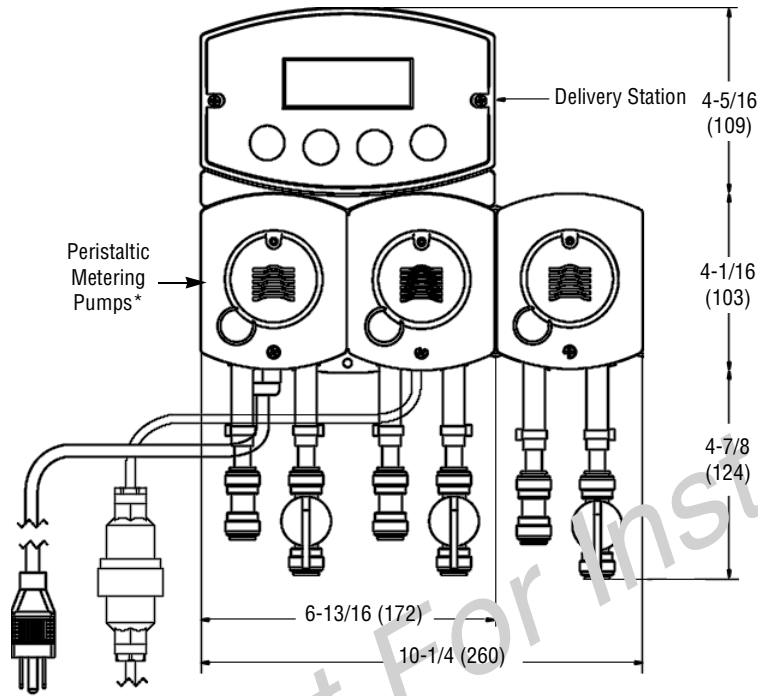
The base language of the document is ENGLISH. Any translations must be made from the base language document.



Reference the following equipment drawings for installation details.	
Equipment Drawing Number	Equipment Drawing Title
129393-281	AL-2000 Chemistry Delivery System

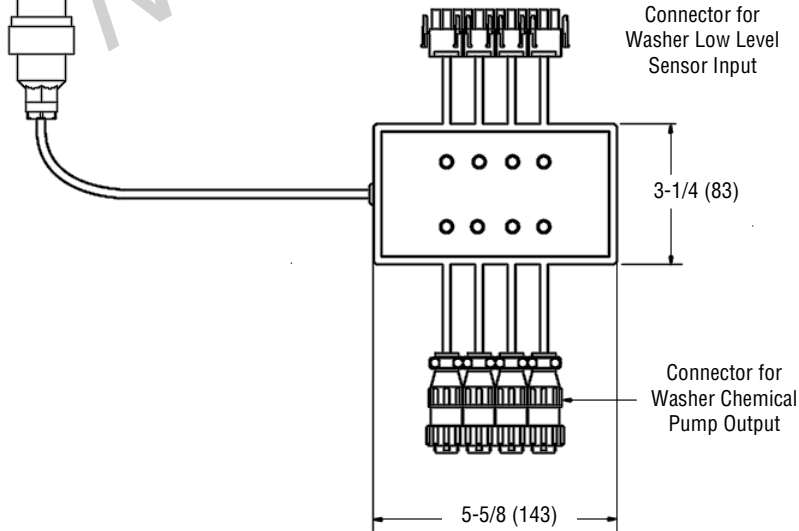
Dimensions are in inches (mm).

Dimensions are typical.
Drawing is not to scale.



SIDE VIEW

FRONT VIEW



WASHER INTERFACE MODULE

* AL-2003 Chemical Delivery System Shown

For Further Information, contact:



STERIS Corporation
5960 Heisley Road
Mentor, OH 44060-1834 • USA
440-354-2600 • 800-444-9009
www.steris.com

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PROLYSTICA

PROLYSTICA ACU-HOLD™ CONTAINER SYSTEM

Product Order Numbers

T635Q0 ACU-HOLD SYSTEM RAIL 38" (1 EACH)
T637Q0 ACU-HOLD SYSTEM (1 BOTTLE BRACKET - EACH)

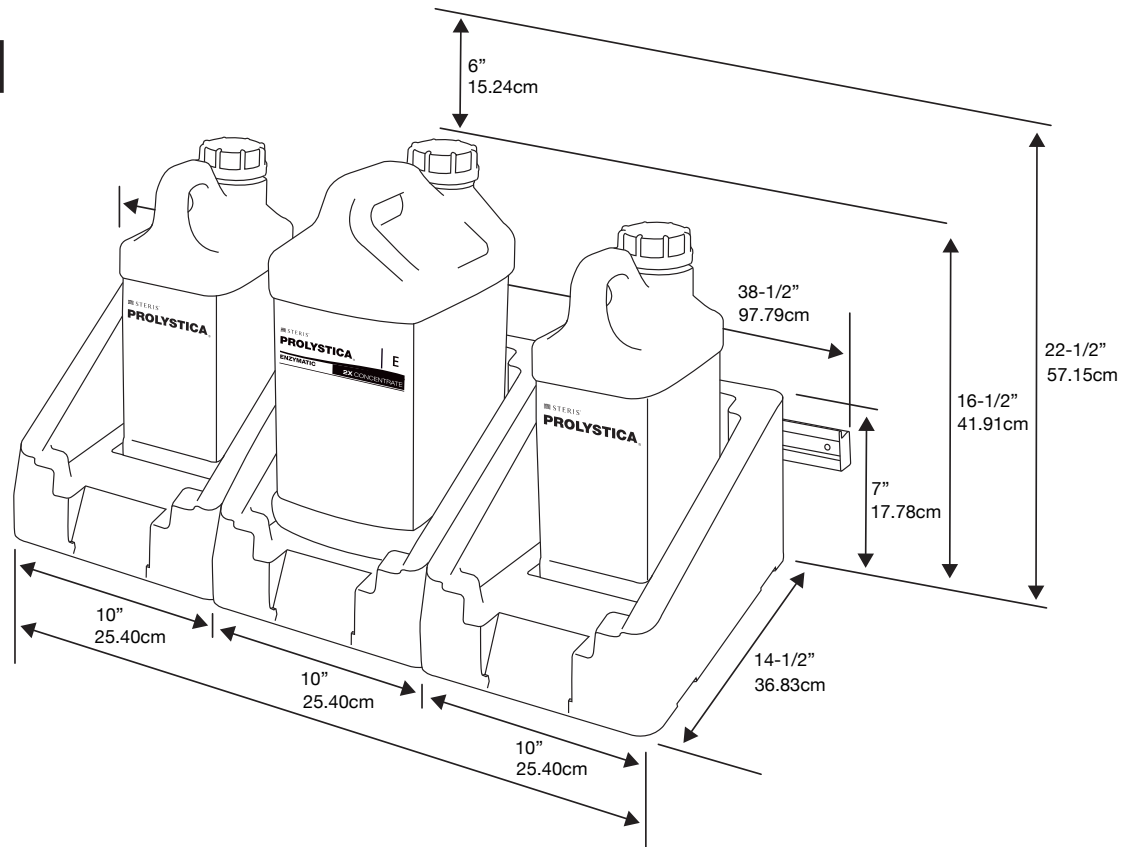
Numéros de commande de produit

T635Q0 RAIL DE SYSTÈME ACU-HOLD DE 38 po (1 UNITÉ)
T637Q0 SYSTÈME ACU-HOLD (SUPPORT À 1 FLACON - UNITÉ)

Números de pedido de los productos

T635Q0 RIEL DEL SISTEMA ACU-HOLD 38" (1 UNIDAD)
T637Q0 SISTEMA ACU-HOLD (1 SOPORTE PARA FRASCOS - UNIDAD)

1



2

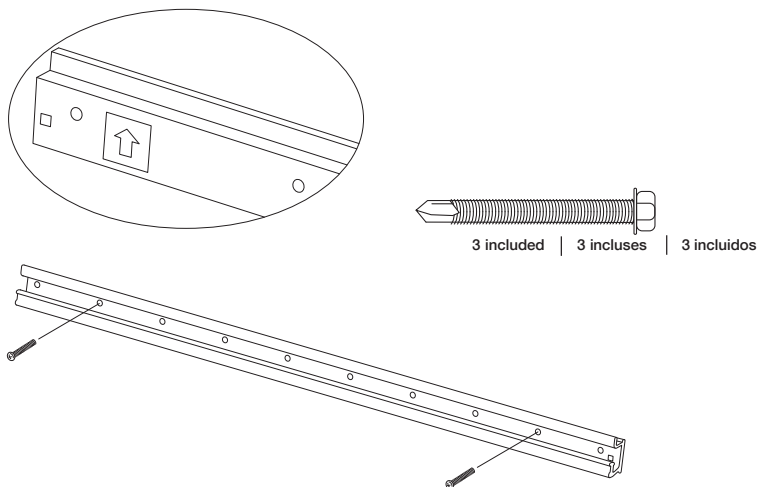


For use with
1 gallon,
5 liter,
2 ½ gallon,
and 10 liter
Jerricans.

Pour les
nourrices
de 1 gallon,
5 litres,
2.5 gallons
et 10 litres.

Para uso
con Jerricans
de 1 galón,
5 litros,
2 ½ galones
y 10 litros.

3



Rail must be securely attached to surface that will support holder, filled bottles, and connecting lines. Approximately 100 lbs of weight.

Le rail doit être solidement fixé à la surface qui supportera le porte-flacon, les flacons remplis et les lignes de branchement. Poids d'environ 100 lb. (45.4 kg)

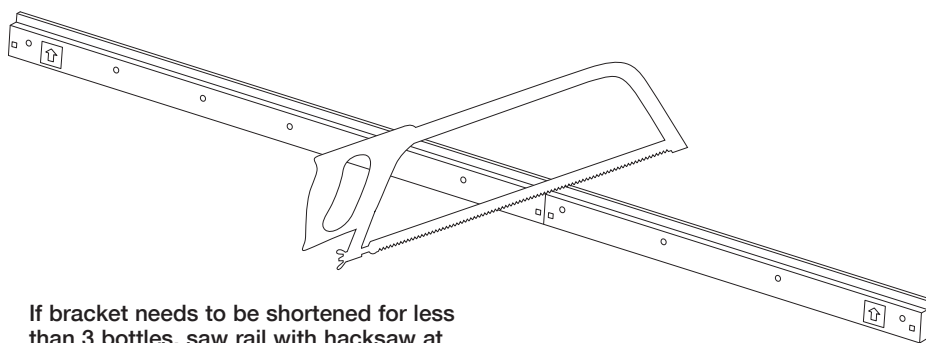
El riel debe conectarse firmemente a la superficie que contendrá el portafracons, los frascos llenos y las vías de conexión. Aproximadamente 100 lbs de peso.

When attaching rail, make sure the arrow on back of rail is pointing up.

En fixant le rail, vérifiez que la flèche derrière le rail pointe vers le haut.

Al conectar el riel, asegúrese de que la flecha en la parte posterior del riel esté orientada hacia arriba.

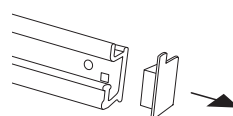
4A



If bracket needs to be shortened for less than 3 bottles, saw rail with hacksaw at groove marked on flat side of rail.

Si le support doit être raccourci pour moins de 3 flacons, scier le rail avec une scie à métaux au niveau de la rainure marquée sur la face plate du rail.

Si es necesario acortar el soporte para menos de 3 frascos, corte el riel con la sierra para metales en la ranura marcada del lado plano del riel.

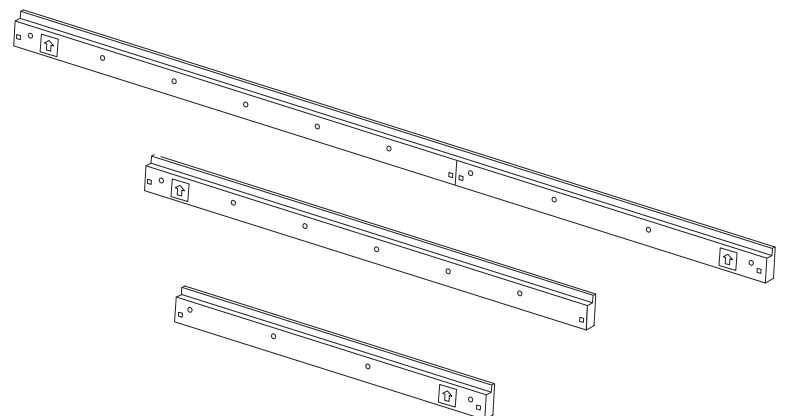


Then remove endcap from unused rail, and attach to rail being used.

Retirer ensuite le capuchon d'extrémité du rail inutilisé et le fixer au rail utilisé.

Luego quite la tapa del extremo del riel no utilizado, y conecte al riel que se está utilizando.

4B

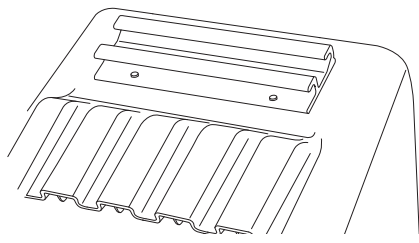


Top: 3 bottle rail 38" (96.52 cm)
Middle: 2 bottle rail 24" (60.96 cm)
Bottom: 1 bottle rail 14" (35.56 cm)

Ci-dessus, en haut : Rail à 3 flacons de 38 po (96.52 cm)
Au milieu : Rail à 2 flacons de 24 po (60.96 cm)
En bas : Rail à 1 flacon de 14 po (35.56 cm)

Superior: Riel para 3 frascos 38" (96.52 cm)
Central: Riel para 2 frascos 24" (60.96 cm)
Inferior: Riel para 1 frasco 14" (35.56 cm)

5

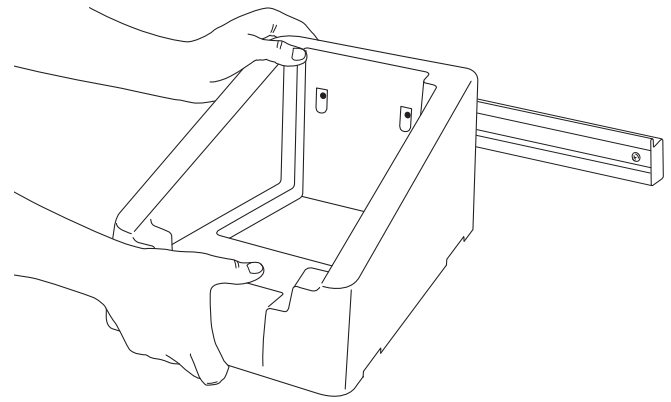


Bracket ready to place on rail.

Support prêt à positionner sur le rail.

Soporte listo para ser colocado en el riel.

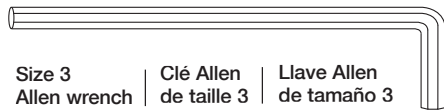
6



Place bottle holder on rail groove.

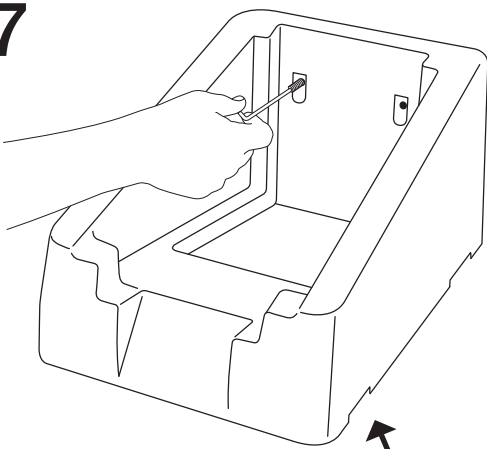
Placer le porte-flacon sur la rainure du rail.

Coloque el portafrascos en la ranura para rieles.



Size 3 Allen wrench | Clé Allen de taille 3 | Llave Allen de tamaño 3

7



Tighten screws to secure bottle holder.

Serrer les vis pour fixer le porte-flacon.

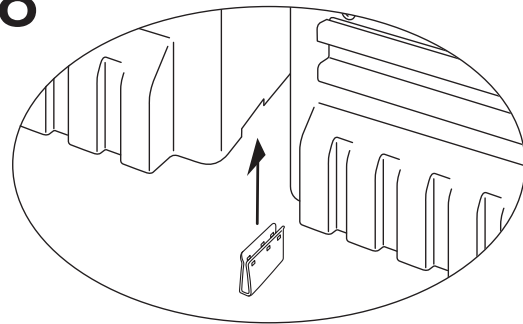
Apriete los tornillos para fijar el portafrascos.

Connection channels for attaching more than one bottle holder.

Encoches de raccordement pour fixer plusieurs porte-flacons.

Canales de conexión para conectar más de un portafrascos.

8



Close-up of clip sliding into bottle holder bracket.

For more than one bottle holder, attach 2 metal clips on channels to secure holders together.

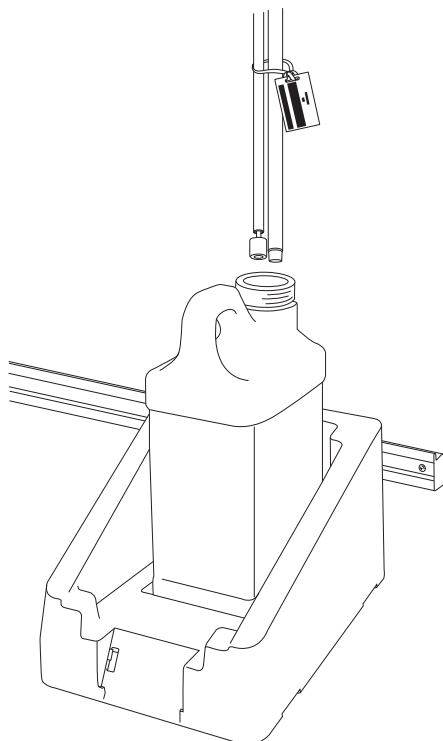
Plan rapproché de la pince glissant dans le support du porte-flacon.

Pour fixer plusieurs porte-flacons, fixer 2 pinces métalliques sur les encoches pour relier les portes flacons.

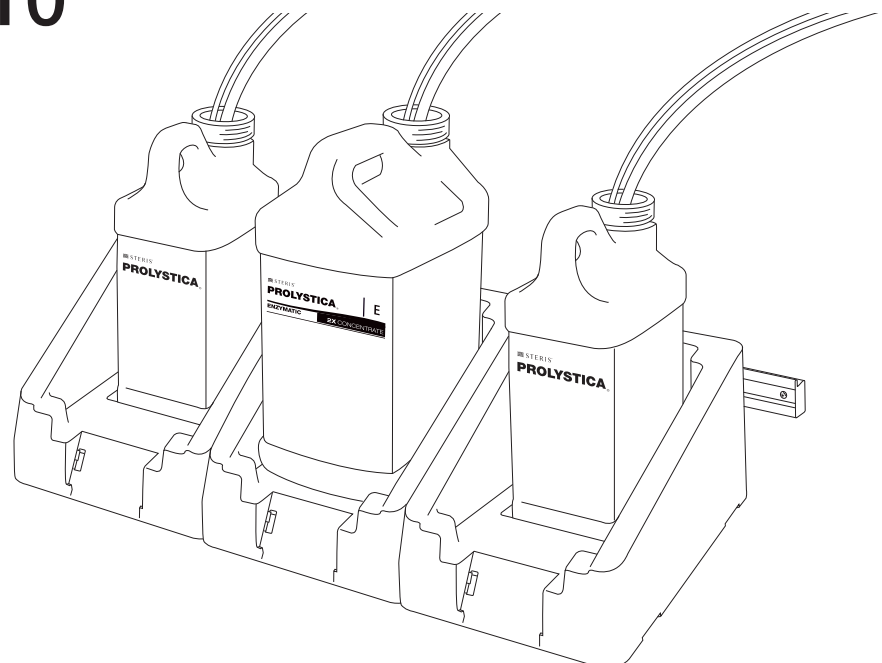
Primer plano del clip deslizando al interior del soporte del portafrascos.

Para más de un portafrascos, conecte 2 clips metálicos en los canales para mantener unidos firmemente los portafrascos entre sí.

9



10



Ultimate Efficiency

You've made the smart decision to use superior-quality Prolystica® Cleaning Chemistries. Don't compromise one drop of efficiency by using a sub-par containment system. Some state regulations now require that cleaning chemistries be stored off of the floor. The **Prolystica Acu-Hold® Container System** is a compliant, ergonomic way to ensure your Prolystica cleaning products are neatly contained for convenient — and complete — use.



PROLYSTICA - AUTOMATED WASHING

 **STERIS**

999-04



Flexible

Easy to load, easy to use and easy to maintain, the Prolystica Acu-Hold Container System is designed to accommodate both 5 liter and 10 liter Prolystica Ultra Concentrate and Ultra Concentrate HP Chemistries.

Space- and strain-saving

The unit installs easily on any wall and is customizable to your department needs. Whether using one rack or more, there is no need for significant lifting or bending in order to place chemicals in the holder.

Smart design

Our patented internal slant mechanism maximizes chemistry extraction — so you won't waste valuable chemistry. The system includes line tags that are color coordinated with product labels. This helps make sure the proper product dispensing tube is used with the correct Prolystica product, avoiding errors, incorrect cycles and wasted product.



Prolystica Acu-Hold Container System supports the following chemistries:

- 5L and 10L Prolystica Ultra Concentrate HP Chemistries
- 5L and 10L Prolystica Ultra Concentrate Chemistries

Ordering Information

Container System – 1 holder each	T637Q0
Rail – 1 rail each	T635Q0

To see Prolystica Acu-Hold in action, contact your local STERIS representative.



Scan this code or visit www.steris.com/prolystica to learn more.



STERIS Corporation
5960 Heisley Road
Mentor, OH 44060-1834 · USA
440-354-2600 · 800-548-4873
www.steris.com



Cut Sheet Summary

GBA Id **24644**

Item **Washer, Cart, Pit Mounted**

Manufacturer **Steris**

Model **VISION 1327**



Image shown may vary in color or finish from actual item to be purchased.

Physical	Electrical	Plumbing/Mechanical	Responsibilities
Height ("): 112.75	<input type="checkbox"/> Multiple Elec Reqs	<input type="checkbox"/> Medical Gas	Furnished by: Owner
Width ("): 124.00	Voltage: 480	<input checked="" type="checkbox"/> Compressed Air	New Install: Med Equip Vendor
Depth ("): 130.00	Hertz: 60	<input checked="" type="checkbox"/> External Exhaust	Existing Install: N/A
Weight (lb): 6,367	Phase: 3	<input type="checkbox"/> Ventilation	Deinstall/ Move: N/A
Operating Wt (lb): 7,483	Amps: 13.5	<input checked="" type="checkbox"/> Building Steam	<input checked="" type="checkbox"/> Contractor Rough-In
	Watts:	<input type="checkbox"/> Integral Steam Generator	
Installation / Placement	Volt Amps:	<input checked="" type="checkbox"/> Cold Water	Notes
Placement: Recessed - Wall	Breaker Size:	<input checked="" type="checkbox"/> Hot Water	<input checked="" type="checkbox"/> Critical Path Item
<input type="checkbox"/> Component System	<input type="checkbox"/> Dedicated	<input checked="" type="checkbox"/> Treated Water	<input type="checkbox"/> Refer to Vendor Dwg
	<input type="checkbox"/> Emergency	<input checked="" type="checkbox"/> Drain	<input checked="" type="checkbox"/> See Mfgr Cut Sheets
Seismic Anchorage	<input checked="" type="checkbox"/> Hard-wired <input type="checkbox"/> Power Cord	BTUs/Hr: 13,800	<input checked="" type="checkbox"/> Dimensions may be rounded; see vendor sheets
Type: Floor	NEMA:		N/A Responsibilities = No Qty (New /Existing)
Pre-apprvl #: OPA-2689-10	Network Connection: Wired		
	<input type="checkbox"/> Cable TV		
	<input type="checkbox"/> Analog Phone Line		
	<input type="checkbox"/> Remote Alarm		

Comments:

The information provided on this summary sheet is based on the data contained on the manufacturer cut sheet(s) that follow. It is the responsibility of the recipient to review the manufacturer's cut sheets for complete information. All specifications included in this document are subject to change without notice by the manufacturer.



VISION® 1321/1327 CART AND UTENSIL WASHER/DISINFECTOR

APPLICATION

The Vision 1321/1327 Cart and Utensil Washer/Disinfector is a high-capacity mechanical washer intended for use in the efficient cleaning, low-level disinfecting and drying of case carts, containers, utensils, beds and other miscellaneous reusable items used in the care of patients. In addition, soiled simple hard-surfaced rigid surgical instruments (e.g., forceps and clamps) are cleaned and intermediate level disinfected with a required option.

DESCRIPTION

The Vision 1321/1327 Cart and Utensil Washer/Disinfector is a mechanical unit equipped with a microprocessor control system. The unit is designed with eight factory-set adjustable cycles: CART STANDARD, CART LOW ECO, CONTAINERS, UTENSILS, BEDS, QUICK, ALUM SAFE and INSTRUMENTS. Eleven additional cycles are available for customized programming to meet specific operating requirements. Cycles are programmed with a drying phase, and with minimal wash and thermal rinse duration. Two exterior mounted fluorescent lights are included to illuminate the wash chamber.

The Vision 1321/1327 Cart and Utensil Washer/Disinfector is available in a double-door configuration. The unit can be built to seismic design.

The Vision 1321/1327 Cart and Utensil Washer/Disinfector is available in a double-door configuration. The unit can be built to seismic design.

Size (W x H x L)

1321 Version

- **Maximum overall dimensions:**
124 x 112.75 x 106" (3150 x 2864 x 2692 mm)
- **Effective chamber load capacity:**
40 x 80 x 82" (1016 x 2032 x 2083 mm)

1327 Version

- **Overall dimensions:**
124 x 112.75 x 130" (3150 x 2864 x 3302 mm)
- **Effective chamber load capacity:**
40 x 80 x 106" (1016 x 2032 x 2692 mm)



(Typical - details may vary.)

STANDARDS

This washer/disinfector meets applicable requirements of the following standards:

- **Governing Directive for the affixing of the CE Mark:**
EU Medical Device Directive 93/42/EEC as amended by 2007/47/EC.
- As certified by UL:
 - » Underwriters Laboratories (UL) Standard UL 61010-1, 2005.
 - » Canadian Standards Association (CSA) CAN/CSA-C22.2, No. 61010-1, Second Edition.
- **International Standards:**
 - » **EN/IEC 61010-1, 2nd Edition;** EN/IEC 61010-2-040, 2005; EN/IEC 61326-1, 2005.
 - » **EN ISO 15883-1:2006,** ANSI/AAMI ST 15883-1 and CSA Z15883-1:2009 - Washer-Disinfectors - General Requirements, Definitions and Tests
 - » **EN ISO 15883-2:2006¹,** ANSI/AAMI ST 15883-2 (draft)¹ Requirements and Tests for Washer-Disinfectors Employing Thermal Disinfection for Surgical Instruments, Aesthesia Equipment, Hollowware, Utensils, Glassware, etc.

¹ When Instrument Washing Option is Present.

The Selections Checked Below Apply To This Equipment

VOLTAGE

- 208 V, 3-Phase, 60 Hz
- 380-415 V, 3-Phase, 50 Hz
- 480 V, 3-Phase, 60 Hz

CONFIGURATION

- 1321 Double Power Door (Pass-Through)
- 1327 Double Power Door (Pass-Through)

OPTIONS

- Pure Water Line (FY03-0010)
- Third Reservoir (FY03-0009)
- Instrument Cycle (FY03-0011)

ACCESSORIES

- Common Service Area Junction Panels (FD328)

- Nonservice Side Panels
 - Vision 1321 (FD327)
 - Vision 1327 (FD331)
- Service Side Access Panels
 - Vision 1321 (FD326)
 - Vision 1327 (FD330)
- Air Compressor (available only North America)
 - 208 V (AX84-100-000-000-001)
 - 460 V (AX84-100-000-000-003)
- Floor Ramps for Floor Mounted Unit (two) [FD324]
- Seismic Tie-Down Kit (FD318)
- Bar Code Scanner (FD329)
- Vision Cart Washer/Disinfector Container Cart (FD322)*

- Vision Cart Washer/Disinfector Utensil Cart (FD323)*
- HEPA Air Filter (FD325)

REMOTE MONITORING

- ProConnect® Technical Support Services (Remote Monitoring, Priority Technical Support, Customer Care Center Access, Equipment Performance Reports). Available in U.S. and Canada only. (GP09169)

* Refer to Cart Washer Accessories Tech Data (SD956) for more information.

Item _____
Location(s) _____

SD940 (04/01/14)

- » **EN ISO 15883-6:2011**, Requirements and Tests for General Purpose Washer-Disinfectors Employing Thermal Disinfection for Non-Invasive Medical Devices, Washbowls, Utensils, Transit Containers, etc.

FEATURES

Sumplex Solution Delivery System. The washer/disinfector cabinet base is 6-3/4" (171 mm) deep.

Solutions are heated by an in-line stainless-steel heat exchanger. A thermal rinse tank includes a steam coil to maintain water temperature for thermal rinse phase.

Spraying System. The washer/disinfector includes two horizontally mounted spray headers, one on each side of the wash chamber to optimize load coverage and cycle time. Each spray header contains 17 jets directed to provide maximum full load coverage. Header height is adjusted to concentrate spray action to lower portion of chamber when processing carts 44" (1118 mm) high or lower. Control monitors spray system travel to stop movement if obstruction is detected or alert operator if full movement is not accomplished.

Horizontal Sliding Doors. Each chamber is provided with two automatic, powered, side-sliding doors made of two 1/4" (6 mm) tempered glass panes to minimize heat transfer and allow easy visual monitoring of the cleaning process. Units are equipped with sensors to detect obstructions and prevent unit operation if doors are not fully closed. Doors are dynamically pressed against a silicone gasket ensuring complete air and water seal of the wash chamber.

Interior Light. Two exterior mounted 18W fluorescent lamps are provided to illuminate the wash chamber. The life expectancy of the lamps is 10,000 hours.

Integral Self-Priming Automatic Chemical Dispenser.

Three peristaltic pumps are included in the standard washer/disinfector with up to two additional chemical injection pumps provided if Instrumented Washing option and Three Reservoir option are installed. Standard pumps: one for neutral or alkaline detergent, one for rinse aid and one for the descaler agent. The pumps are located in a separate room, positioned near the detergent containers and connected to washer/disinfector with up to 100' (30 m) of piping. Each tube is color coded to facilitate tracking through the facility.

Pumps allow use of Prolystica® Ultra Concentrate chemicals. Each ultra concentrated product is 10 times the concentration of a traditional product, therefore Only 1/10th of the chemical is injected to properly process the cycles.

The peristaltic pumps automatically add a selected quantity of detergent:

- Ultra Concentrates: 1/20 or 1/10 oz/gal (0.4 to 0.8 mL/L).
- Regular Chemicals: 1/8 to 2 oz/gal (1 to 16 mL/L)
- Rinse Aid: 1/50 oz/gal (0.16 mL/L).

A low-level sensor is included to indicate when the detergent level in the container is low or when insufficient chemical is available for the next cycle.

The control monitors the volume of chemicals injected and indicates if this parameter meets specified criteria during all specific phases (only for instrument cycle).

Wash Chamber. The chamber is constructed of 14 and 16 gauge, #304 stainless steel (No. 4 finish), argon-welded and polished. Base is made of #304 L stainless steel. Chamber flooring consists of two removable stainless-steel panels designed with gratings running lengthwise in the chamber allowing for quiet loading and unloading.

Removable Debris Screen. A removable debris screen is located in the bottom of the chamber. The debris screen prevents large debris from entering the piping system and pump. The screen is provided with a handle and is easily removed for cleaning under running water.

Other Components. All components of the wash/rinse system, including screens, spray headers, piping, and booster in-line heat exchanger are constructed of #304 stainless steel. High-pressure recirculating pump is made of #316 L stainless steel. Ball valves are constructed of Teflon® and #316L stainless steel.²

Unit frame, mobile mechanical core and all fasteners are constructed of #304 stainless steel. Aluminum-sheathed rigid fiberglass insulation, 1" (25 mm) thick covering the top and sides of the chamber exterior, reduces heat loss and noise level to the work area.

Treatment Staging Tanks. The tanks are equipped with an automatic solution level control, automatic hot water fill and safety overflowing piping. Tanks are made of #304 L stainless steel and are fully insulated with 1" (25 mm) thick aluminum sheathed fiberglass to prevent heat loss and burn hazard. The bottom of the tanks are sloped toward the water outlet for optimum drainability. Each solution tank includes an internal baffle that deflects solutions to the tank walls to assure self-cleaning of the tank during the recirculation process. Capacity is 25 U.S. gal (94.62 L).

High Pressure Pump. Open impeller pump is powered by dual-speed motor permitting two ranges of flow rate/pressure. Pump impeller, shaft and casing are of #316 L stainless-steel construction. The pump motor is a Totally Enclosed Fan Cooled (TEFC) class H motor, electro-polished, magnetic starter, overload protection and sealed bearings (requiring no lubrication).

Nonrecirculated, Vented Drying System. The vented drying system effectively dries the processed load at the completion of each cycle. Fresh, heated filtered air is blown at high velocity through all four corners of the wash chamber and to the load. Dry air is then evacuated through the chamber vent opening. Fresh air can be High Efficiency Particulate Air (HEPA) filtered as an accessory.

Automatic Floor Tilting System. System slopes the processed load at the start of the drying phase to properly drain flat surfaces of carts. The floor is automatically returned to its level position at completion of the cycle for smooth loading and unloading.

Integral Exhaust Fan. The fan assists the building ventilation system when evacuating vapor from the wash chamber. Fan impeller, casing and motor shaft are made of stainless steel.

² Teflon® is a registered trademark of E. I. duPont de Nemours and Company.

Heating System. Solutions are heated by an instantaneous, in-line, stainless-steel heat exchanger designed to reduce steam consumption and cycle time. A steam coil also exists in the thermal rinse tank to preheat and maintain water temperature to reduce thermal rinse phase readiness time.

Drain Discharge Cool Down. Unit is provided with a cold water connection for use with cold water selection and effluents cool down if sump or reservoir water temperature is higher than 140°F (60°C) while being discharged to building drain system.

Process Data Validation System. The washer/disinfector includes a Process Data Validation System (PDVS). This system documents and measures the following parameters:

- Sump temperature
- Volume of detergent injected during Instrument Cycle Control alarms user if this independently recorded data falls outside passing criteria. The PDVS increases facility confidence level that the cycle has been successfully completed.

ProConnect Response Center. Maximize operational efficiencies with secure, internet-based, real-time equipment monitoring. Data from your equipment is used by STERIS to provide pro-active Customer alert notifications, technical support, and predictive maintenance. Online parts ordering, equipment performance dashboards, and online service scheduling at steris.com is also available. (ProConnect Technical Support Services is available in U.S. and Canada only.) Refer to Tech Data sheet *SD983, PROCONNECT TECHNICAL SUPPORT SERVICES*, for details.

CONTROL SYSTEM

The control system consists of an Allen-Bradley SoftLogix™ PC-based control system³. Operator interfaces are ergonomically located, easily accessible and viewable on both ends of the unit. Other control system features are as follows:

- **Control system** monitors and controls washer operations and functions. Cycle progresses automatically through the designated phases as programmed. Control system also stores all cycle data as protection against power disruption.
- **Operator Interface** is an 8 x 7" (203 x 179 mm) touch-sensitive color graphic display. Display permits operator to monitor current cycle status, including current chamber temperature and remaining phase time. Identical information displayed on both ends of the unit.
- **Integral thermal printer** with automatic paper take-up provides an easy-to-read record of all pertinent cycle data. Generated printout includes date, treatment type, cycle starting time and key cycle transition points. All cycle deviations are indicated by visual and audible means, recorded by the printer and need acknowledgement by operator.
- **Security access code** requires entry of a four-digit access code to change cycles, cycle values and to enter service mode.
- **Service mode** is accessible through main control panel for service and maintenance purposes.
- **Preprogrammed parameters** for each cycle. If operator selects an out-of-range setting when modifying the cycle values, the control system alerts operator with a reference message and halts further operation until the correct value is entered.

³ Allen-Bradley SoftLogix™ is a trademark of Rockwell Automation, Inc.

- **USB Port** is supplied so cycle data is available in PDF format and accessible through Service Mode.
- **Ethernet port** is available for remote monitoring and troubleshooting.
- **Three Operator Modes** are available. Supervisor, Service and Cycle. The first two modes are password protected. Cycle mode is always available.

CYCLE DESCRIPTION

ADVISORY NOTE: *This washer/disinfector is specifically designed to only process goods as outlined in this tech data. If there is any doubt about the use of a specific material or product, contact the manufacturer of the product for recommended washing techniques.*

STERIS does not intend, recommend, or represent in any way that this Vision 1321/1327 Cart and Utensil Washer/Disinfector be used for the terminal disinfection or sterilization of any regulated medical device. The Vision 1321/1327 Cart and Utensil Washer/Disinfectors are intended only to perform an initial step in the processing of soiled, reusable items used in the care of patients. If medical devices will be contacting blood or compromised tissues, such devices must be terminally processed in accordance with good hospital practices (GHP) before each use in human patients.

Items to be cleaned are placed on the appropriate accessory cart and/or rack and are positioned in front of the washer. When the washer is ready, the operator opens the doors and pushes the cart/rack into the chamber. Operator closes the door and initiates the cycle. Unit proceeds through treatment schedule and automatically opens the unloading door at cycle completion. A display message and audible alarm indicate that the load is ready for removal. Clean side operator removes clean/disinfected items.

Each cycle program is operator adjustable to meet specific processing needs. Cycle programming is protected by a security access code set by the supervisor. The standard control system features eight factory pre-programmed cycles (CART STANDARD, CART LOW ECO, CONTAINERS, UTENSILS, BEDS, QUICK, INSTRUMENTS and ALUM SAFE) and a special SELF DECONTAMINATION cycle for routine maintenance of the unit. Control is also equipped with open cycles that are programmable on-site at the user's discretion.

Each cycle program is constructed of phases. The following phase descriptions are from the featured Cart and Utensil cycles developed and validated to provide a total cleaning solution by joining advanced washing technology with Prolystica Ultra Concentrate cleaning chemistries:

Wash phase - solution from Reservoir (Tank) 2 or 3 (if the third reservoir option is present) is recirculated through the spray system for the selected time period. Solution is heated to 135°F (57°C) in the second portion of the phase. After a programmable number of cycles, solutions are automatically drained and renewed.

Thermal Rinse phase - pre-heated, hot or pure water from Reservoir (Tank) 1 is sprayed over the load and recirculated for the selected time period to rinse and disinfect the load. Solution is heated to 176°F (80°C). After a programmable

number of cycles, solutions are automatically drained and renewed. Rinse Aid is automatically added during the reservoir (tank) filling.

HEPA-Filtered Air Drying - The drying phase consists of blowing heated nonrecirculated air on the load, and evacuating it through the vent connection. Selected time for this nonrecirculated phase must be between 02:00 and 15:00.

SAFETY FEATURES

Safety Door Switch. A microswitch prevents a cycle from starting if the doors are not fully closed, and also stops the unit if doors are opened during a cycle. Doors must be closed to continue operation. Also, if an obstruction is present when a door attempts to close, control senses obstruction and prevents door from closing.

Emergency Stop Pushbuttons. The washer/disinfector is equipped with two external Emergency Stop pushbuttons that automatically stop operation of the unit. Once pushed, door locking mechanism disengages allowing the door to be easily opened from inside or outside.

Door Interlock. The safety interlock mechanism prevents both doors from being opened simultaneously, preventing cross-contamination. The clean side/unload door cannot be opened until the cycle has been successfully completed.

Labeling. The washer/disinfector is labeled with warning and caution pictograms to warn the operators and service technicians of precautions to be taken.

Emergency Stop Cables. Located on each side of the interior wash chamber, instantly stop washer/disinfector operation if pulled. Once pulled, door locking mechanism disengages allowing the door to be easily opened from inside or outside.

ON/OFF Switch. Power switch is located on load side of the unit and is used to shut off control power and drain sump and reservoirs (tanks).

OPTIONAL FEATURES

Instrument Cycle Package allows the cleaning and intermediate level disinfection of soiled hard-surfaced rigid surgical instruments (e.g., forceps and clamps). Option comes with an Enzyme injection line, a coupling system for manifolded rack, a Vision instrument washing manifolded rack, detergent flow meters and an Instrument Cycle.

Third Reservoir Option allows an additional detergent to be introduced to wash cycle. Tank is constructed of #304 L stainless-steel, insulated with aluminum sheathed rigid fiberglass to prevent heat loss and burn hazard and with a capacity of 25 US gal (95 L).

Pure Water Line, constructed of 316 stainless-steel, delivers purified water to rinse phase.

ACCESSORIES

High Efficiency Particulate Air (HEPA) filter is located on the mechanical core of washer/disinfector. Air entering the chamber passes through the HEPA filter to prevent any contamination of the load.

Service Side Enclosure Panels and supports are provided to enclose the mechanical core.

Nonservice Side Enclosure Panels are provided to cover insulation on the nonservice side of unit cabinet.

Remote Air Compressor, complete with tank and pressure switch, is available in either 208 V or 460 V. Oilless air compressor operates at 59 dBa. Wiring at installation not provided by STERIS. Also required for operation, a 120 V, 60 Hz outlet for auto drain valve.

Floor Ramps, 4' (1.2 m) long, are provided with guards on each side to help the operator guide the load into the washer. Slope of the ramp not to exceed 6.5° to enable easy loading of carts in the wash chamber.

Seismic Tie-Down Kit includes hardware for properly securing the washer to the building floor. The washer is designed to comply with Seismic Zone 3 and 4 requirements.

Bar Code Scanner is provided to automatically identify and initiate the appropriate cycle by means of a bar code tag attached to load.

Container (FD32-2) and Utensil (FD32-3) Carts designed for efficient cleaning and disinfection of containers, utensils and other reusable items used in patient care. Refer to Cart Washer Accessories Tech Data (SD956) for more information.

PREVENTIVE MAINTENANCE

A global network of skilled service specialists can provide periodic inspections and adjustments to help ensure low-cost peak performance. STERIS representatives can provide information regarding annual maintenance programs.

CHEMICAL ADDITIVES SPECIFICATIONS

Follow detergent label recommendations for the concentration of chemical to use.

To achieve maximum cleaning efficiency, STERIS recommends the following chemicals:

- Prolystica® Ultra Concentrate Enzymatic Presoak and Cleaner (Instrument Cycle).
- Prolystica® Ultra Concentrate Alkaline Detergent.
- Prolystica® Ultra Concentrate Neutral Detergent.

IMPORTANT: STERIS does not promote, recommend, or endorse the use of any other type of chemical additives in the processing of articles in the Vision 1321/1327 Cart and Utensil Washer/Disinfector, such as high alkaline detergents (pH > 12), alcohol rinses, and liquid disinfectants, including hypochloric acid (bleach).

NOTES

1. Customers must ensure the washer/disinfector stands on a level non combustible floor.
2. STERIS recommends that shutoff valves and vacuum breakers (not provided by STERIS) be installed on service lines, and that fused disconnect switches (with lockout in OFF position; not provided by STERIS) be installed in electric supply lines near the equipment.
3. Pipe sizes shown indicate terminal outlets only. Building service lines provided (not provided by STERIS), must supply the specified pressures and flow rates.
4. For all ventilation ducting from the washer, STERIS recommends installation of a dedicated corrosion-proof, water-tight duct, rated to an operating temperature of 210°F (99°C) or more, to the exterior of the building, sloped toward the washer with condensate drain connection.
5. Refer to Equipment Drawing for specific installation details.
6. STERIS recommends a well-lighted service area (if applicable), along with the provision of a convenience outlet for maintenance.
7. Always follow local electrical codes and safety-related work practices for wiring.

UTILITY REQUIREMENTS

Important: Refer to Equipment Drawing (Vision 1321: 920-517-287; Vision 1327: 920-513-916) for installation details and specifications.

Hot Water
1" NPT

Cold Water
1" NPT

Steam
1-1/2" NPT

Air
1/2" NPT

Ventilation
6" (152 mm) O.D.

Drain
Recommended minimum 9" (229 mm) floor sink with minimum 4" (101 mm) drain outlet.

Pure Water
1" NPT

Condensate Return
1" NPT

Electricity

- » 200-208 V, 60 Hz, 3-Phase, 25.5-27.5 Amps
- » 460-480 V, 60 Hz, 3-Phase, 13.5 Amps
- » 380-415 V, 50 Hz, 3-Phase, 14.5 Amps

Requirements for ProConnect Technical Support Services

Refer to Tech Data sheet *SD983, PROCONNECT TECHNICAL SUPPORT SERVICES*. (Available in U.S. and Canada only.)

The base language of this document is ENGLISH. Any translations must be made from the base language document.

CUSTOMER IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE LOCAL AND NATIONAL CODES AND REGULATIONS.

ENGINEERING DATA	
Shipping Weight (max):	
Chamber (Vision 1321)	1820 lb (826 kg)
(Vision 1327)	1925 lb (873 kg)
Mechanical Core (Vision 1321)	1325 lb (601 kg)
(Vision 1327)	1325 lb (601 kg)
Operating Weight:	
Cabinet, Water, Two Heavy Case Carts (Vision 1321)	7289 lb (3306 kg)
(Vision 1327)	7483 lb (3394 kg)
Without Cabinet, With Water and Two Heavy Case Carts (Vision 1321)	6173 lb (2800 kg)
(Vision 1327)	6367 lb (2888 kg)
For Seismic Report, With Cabinet, With Water in Reservoir and Without Case Cart (Vision 1321)	6468 lb (2934 kg)
(Vision 1327)	6662 lb (3022 kg)
Hot Water Consumption Per Cycle:	14 U.S. gal (53 L)
Steam Consumption Per Cycle (With Hot Tap Water Heated at 140°F-60°C):	31 lbs (14 kg)
Noise Level⁴:	65 dBa
Heat Loss:	13,800 BTU/hr (4039 W)

⁴ Calculated as described in ISO-3746 standard

NOTES

Recommended Air Compressor

1. Rotary scroll air compressor must be located in a clean, well lit and ventilated area.
2. Never install the compressor where the ambient temperature is higher than 105°F (40°C), or where humidity is high. Clearance must allow for safe, effective inspection and maintenance. Minimum clearances required: above and sides, 24" (610 mm); electrical panel opening 42" (1067 mm).

3. Never use any piping smaller than the compressor connection.

UTILITY REQUIREMENTS

Recommended Air Compressor

Electrical – Compressor Motor

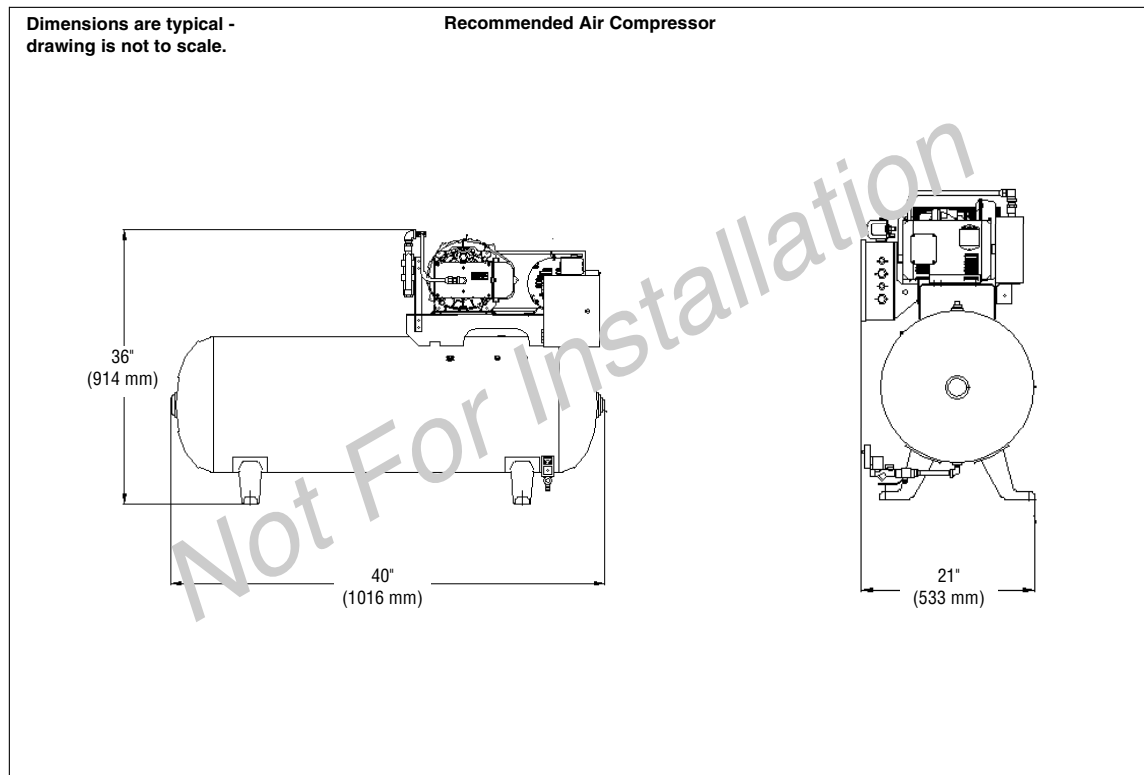
208, 230 or 460 Volt, 60 Hz, 3-Phase

Electrical – Auto Drain Valve

120 Volt, 60 Hz

ENGINEERING DATA - RECOMMENDED AIR COMPRESSOR WITH AUTOMATIC TANK DRAIN

SCFM @ 100 PSIG	Weight	dB (A) Level	BTU/HR	Size	Capacity	Maximun Pressure	F.L.A./MOTOR		
							208 V	230 V	460 V
8.8	240 lb (109 kg)	69	7635	See Below	30 gal (114 L)	116 psig (800 kPa)	10.6	9.6	4.8

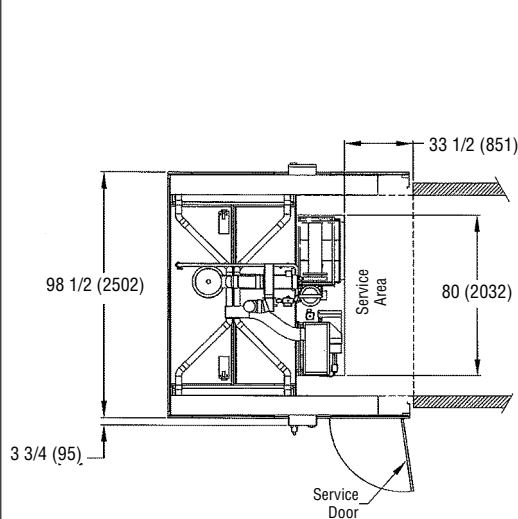


Refer to the Following Equipment Drawings for Installation Details

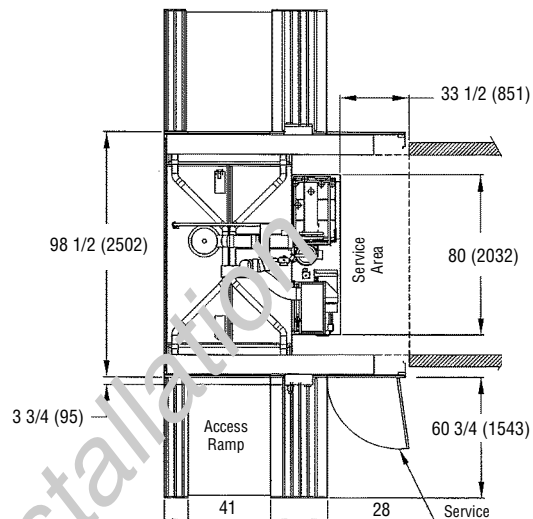
Equipment Drawing Number	Equipment Drawing Title
920-517-287	Vision 1321 Cart and Utensil Washer/Disinfector
920-513-916	Vision 1327 Cart and Utensil Washer/Disinfector

Dimensions are typical – drawing is not to scale.

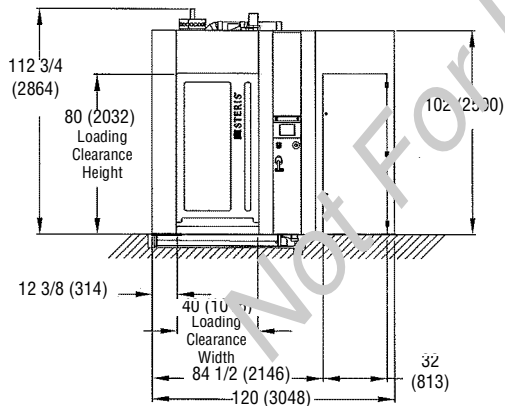
Dimensions are in inches (mm)



TOP VIEW

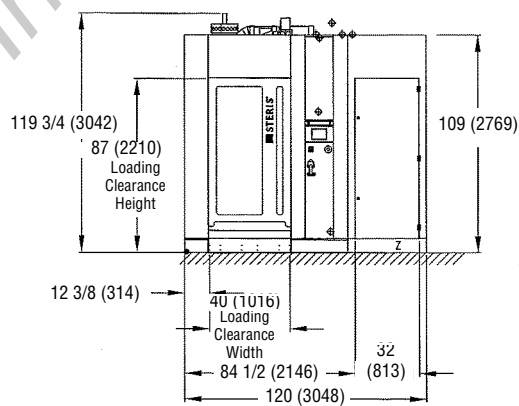


TOP VIEW



FRONT VIEW

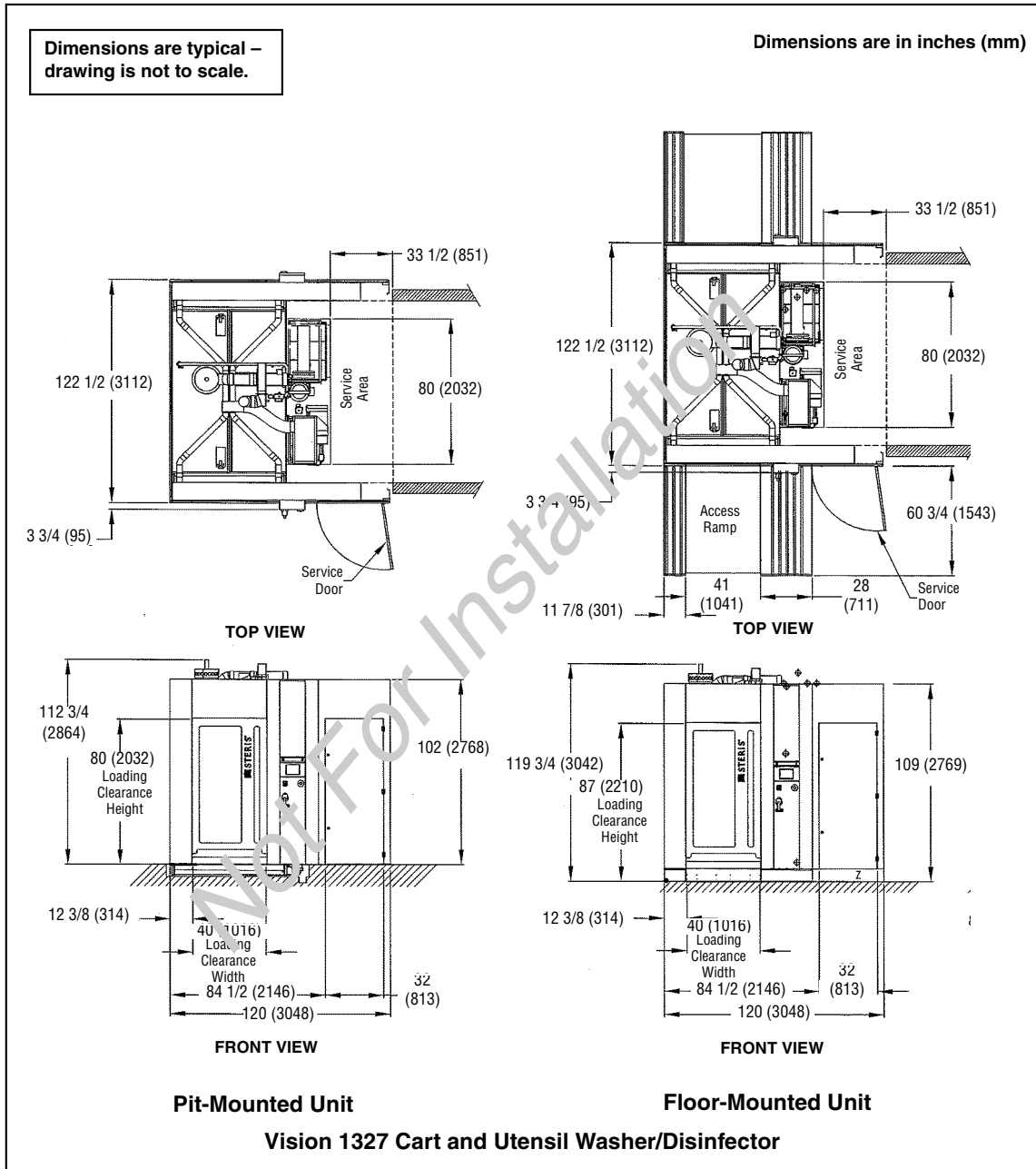
Pit-Mounted Unit



FRONT VIEW

Floor-Mounted Unit

Vision 1321 Cart and Utensil Washer/Disinfector

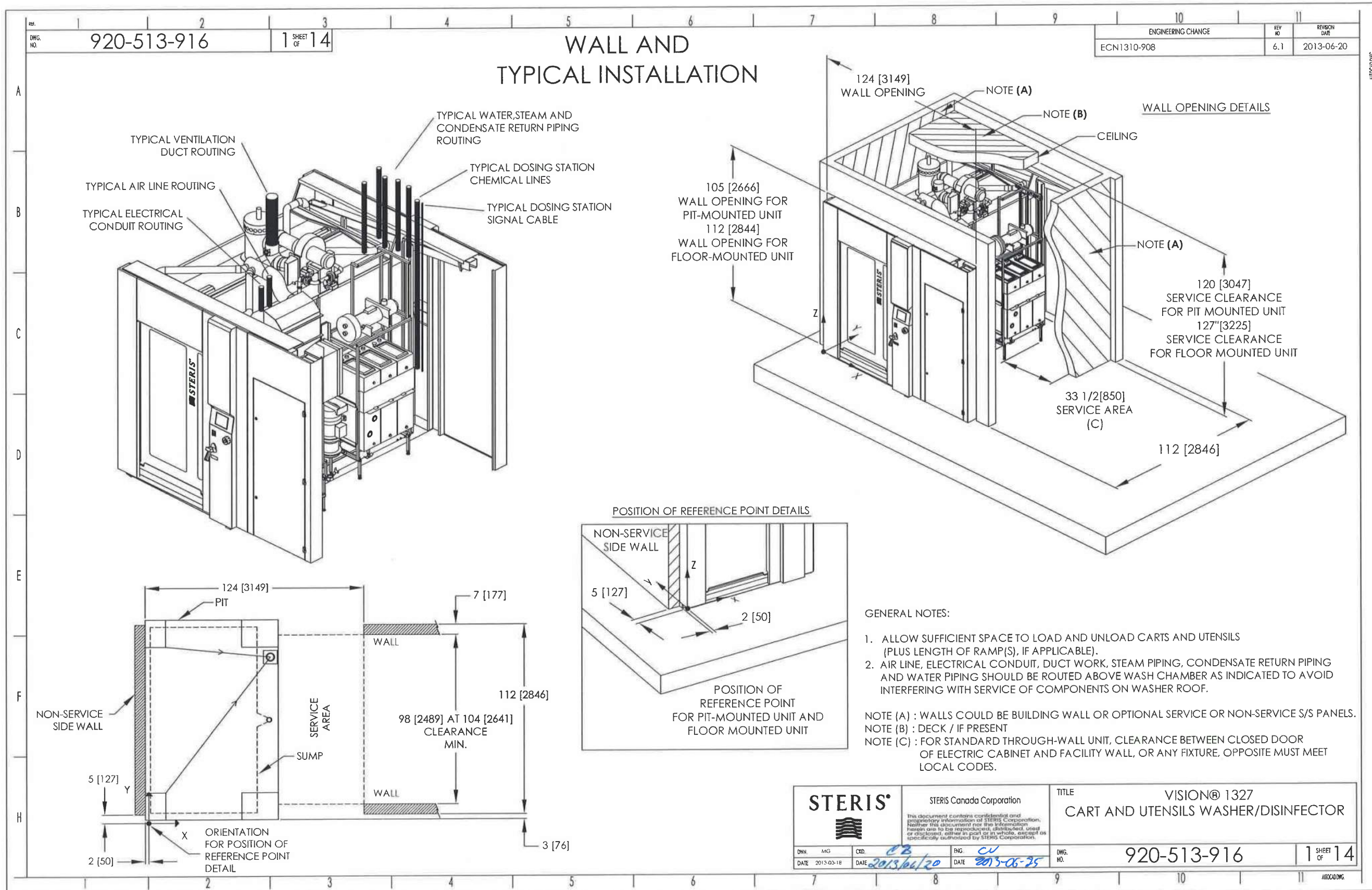


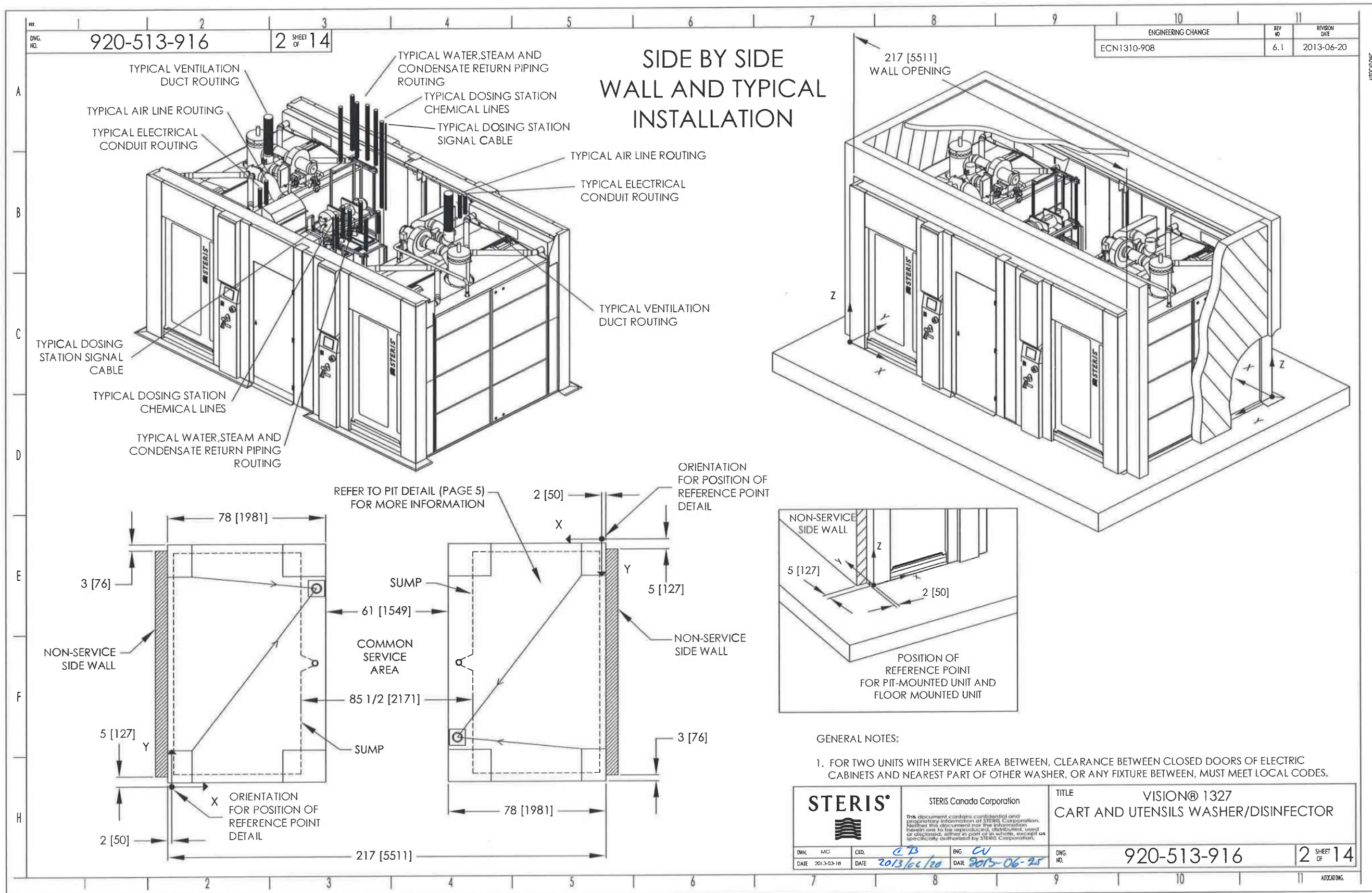
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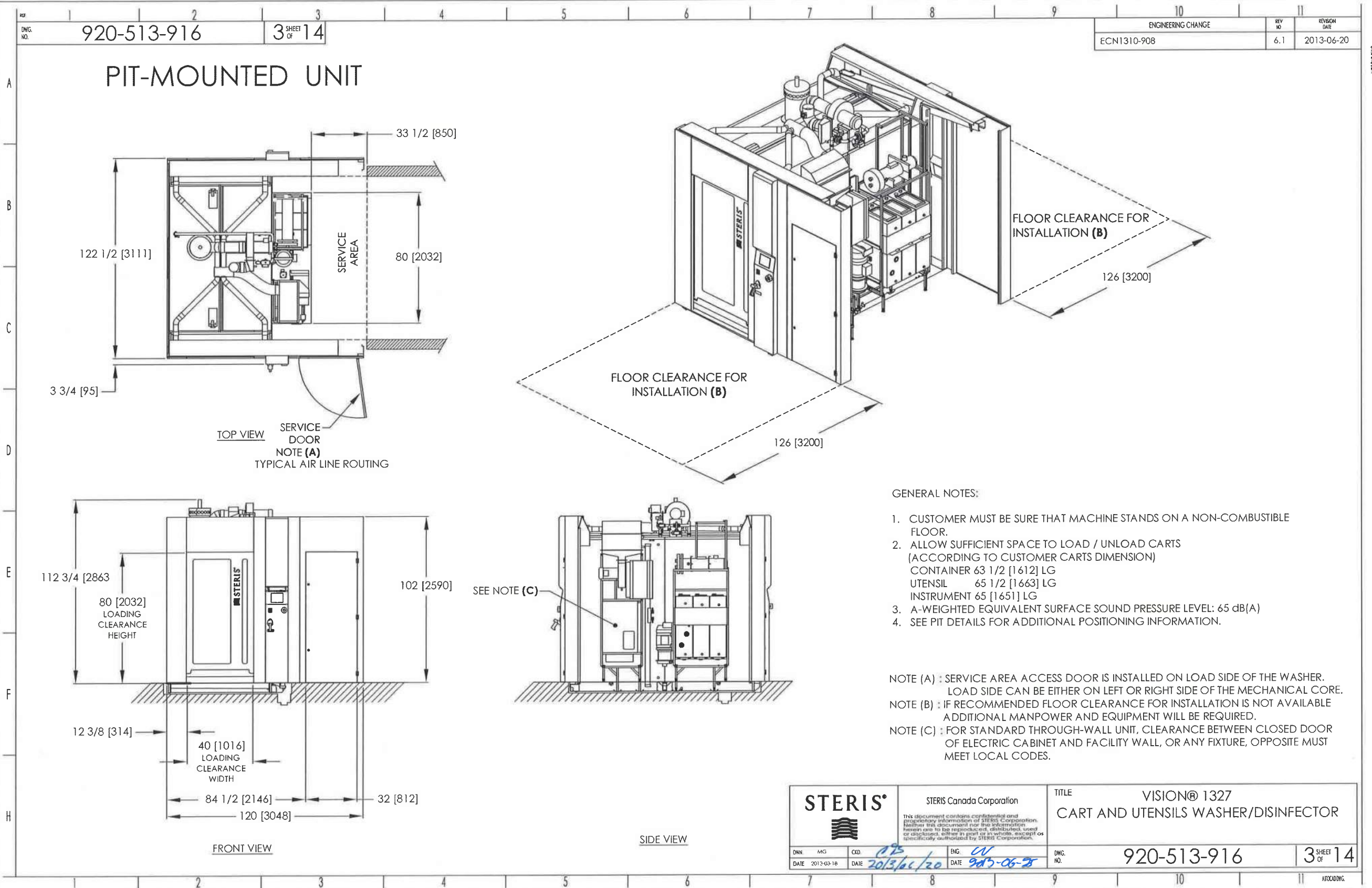


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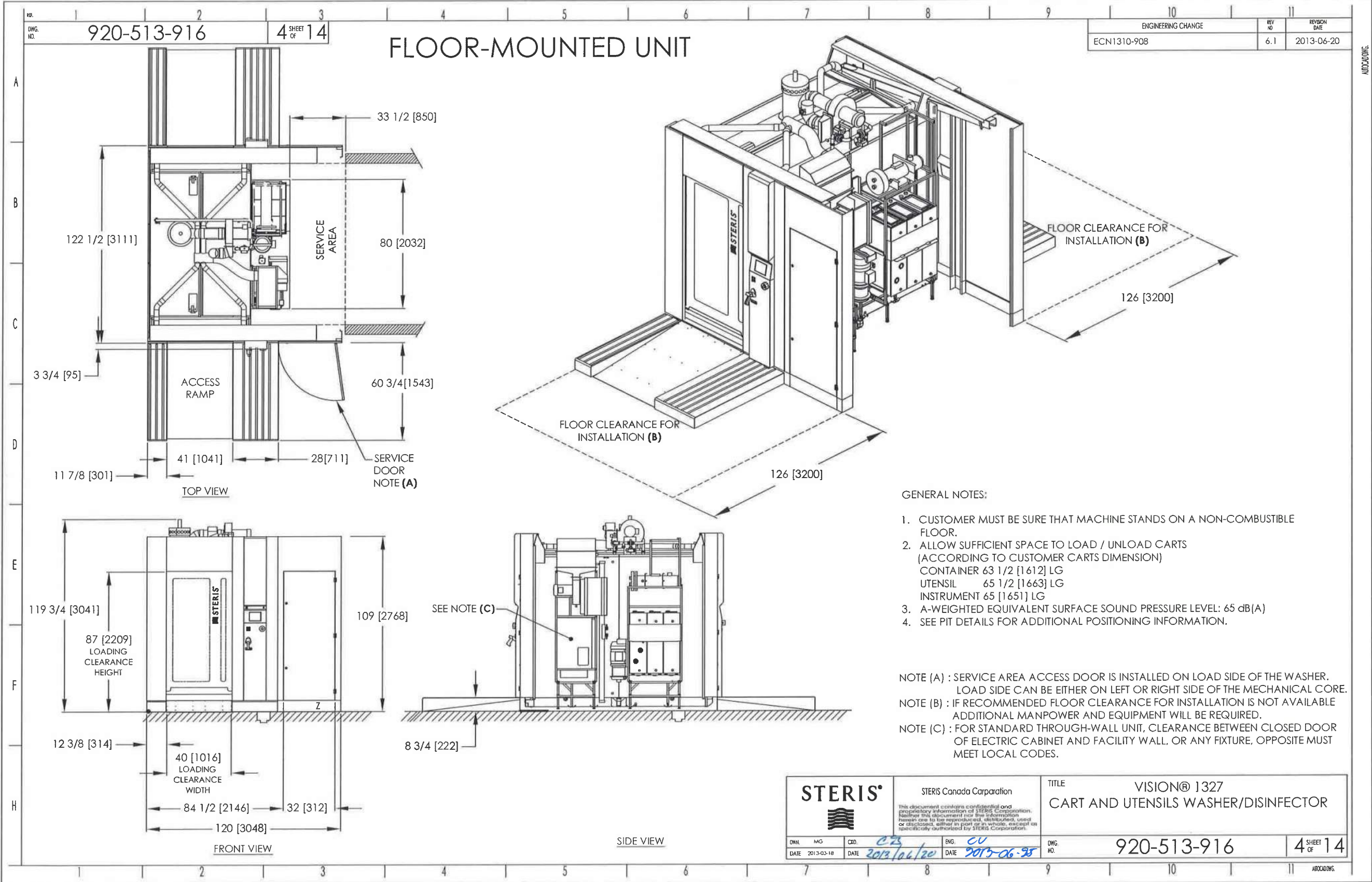


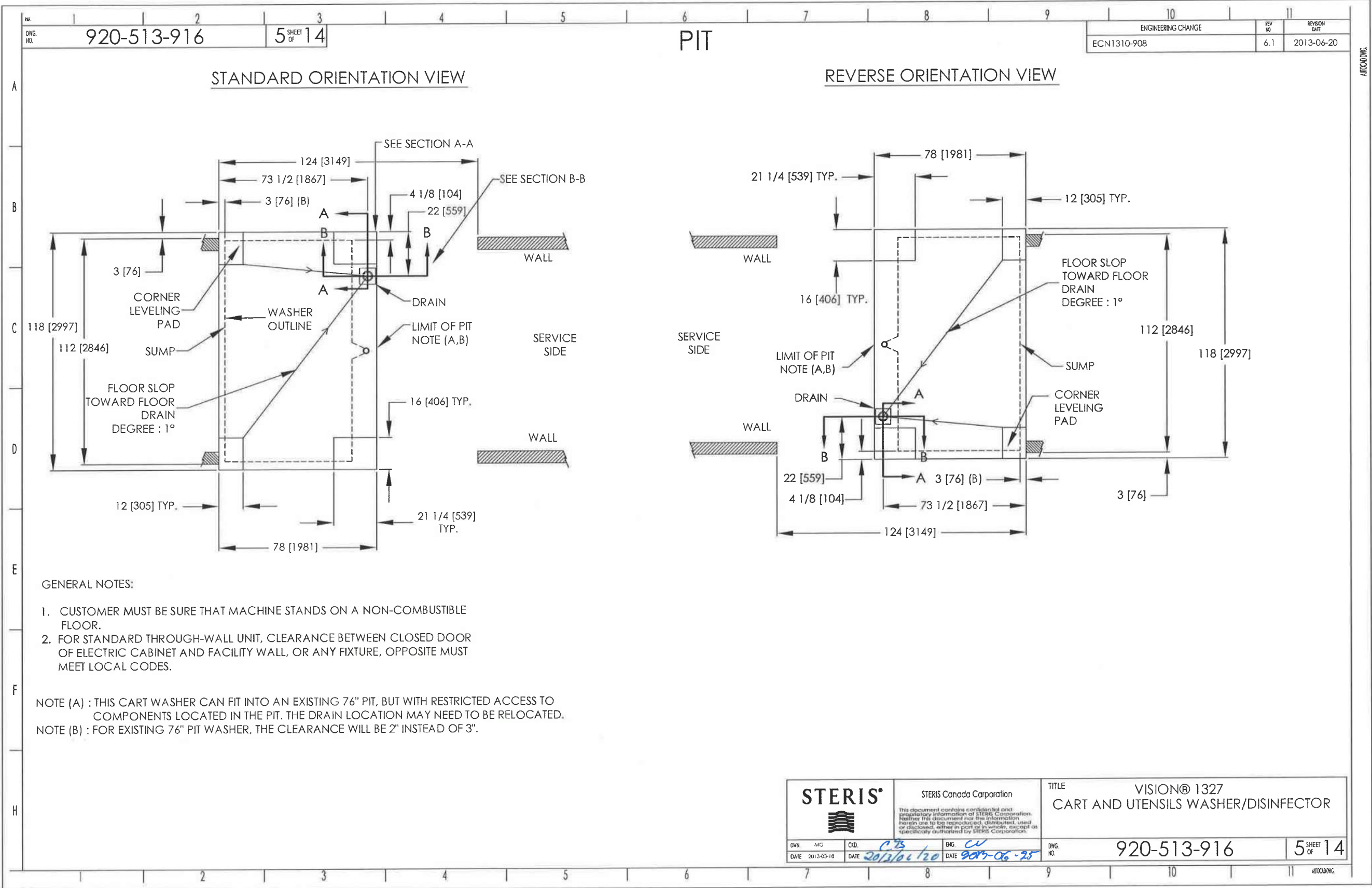




DWG. NO.	920-513-916	3 SHEET OF 14	ENGINEERING CHANGE	REV. NO.	REVISION DATE
			ECN1310-908	6.1	2013-06-20

		STERIS Canada Corporation <small>This document contains confidential and proprietary information of STERIS Corporation. Neither this document nor the information herein are to be reproduced, circulated, used or disclosed, either in part or in whole, except as specifically authorized by STERIS Corporation.</small>	TITLE VISION® 1327 CART AND UTENSILS WASHER/DISINFECTOR
DWG. NO.	920-513-916	3 SHEET OF 14	
DWN. MG. CED.	MG	MG	
DATE	2013-03-18	DATE	2013-06-20
		ENG. CU	DATE 2013-06-20



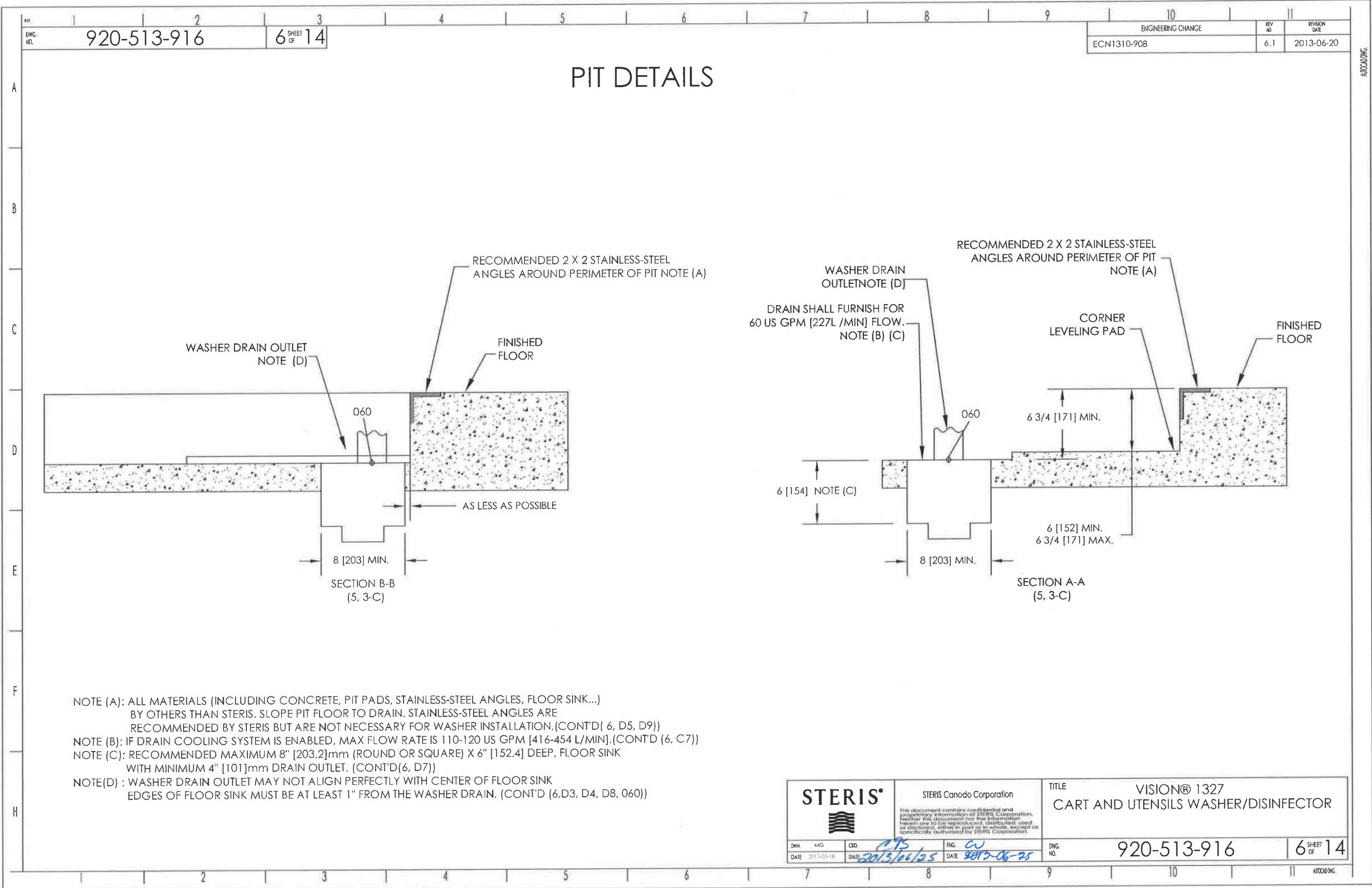


GENERAL NOTES:

1. CUSTOMER MUST BE SURE THAT MACHINE STANDS ON A NON-COMBUSTIBLE FLOOR.
2. FOR STANDARD THROUGH-WALL UNIT, CLEARANCE BETWEEN CLOSED DOOR OF ELECTRIC CABINET AND FACILITY WALL, OR ANY FIXTURE, OPPOSITE MUST MEET LOCAL CODES.

NOTE (A) : THIS CART WASHER CAN FIT INTO AN EXISTING 76" PIT, BUT WITH RESTRICTED ACCESS TO COMPONENTS LOCATED IN THE PIT. THE DRAIN LOCATION MAY NEED TO BE RELOCATED.
 NOTE (B) : FOR EXISTING 76" PIT WASHER, THE CLEARANCE WILL BE 2" INSTEAD OF 3".

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DWN DATE 2013-03-18	MCG DATE 2013/06/20	CID C.B.	DKG CV DATE 2013-06-25	DWG NO. 920-513-916
				5 SHEET OF 14



NOTE (A): ALL MATERIALS (INCLUDING CONCRETE, PIT PADS, STAINLESS-STEEL ANGLES, FLOOR SINK...) BY OTHERS THAN STERIS. SLOPE PIT FLOOR TO DRAIN. STAINLESS-STEEL ANGLES ARE RECOMMENDED BY STERIS BUT ARE NOT NECESSARY FOR WASHER INSTALLATION. (CONT'D (6, D5, D9))

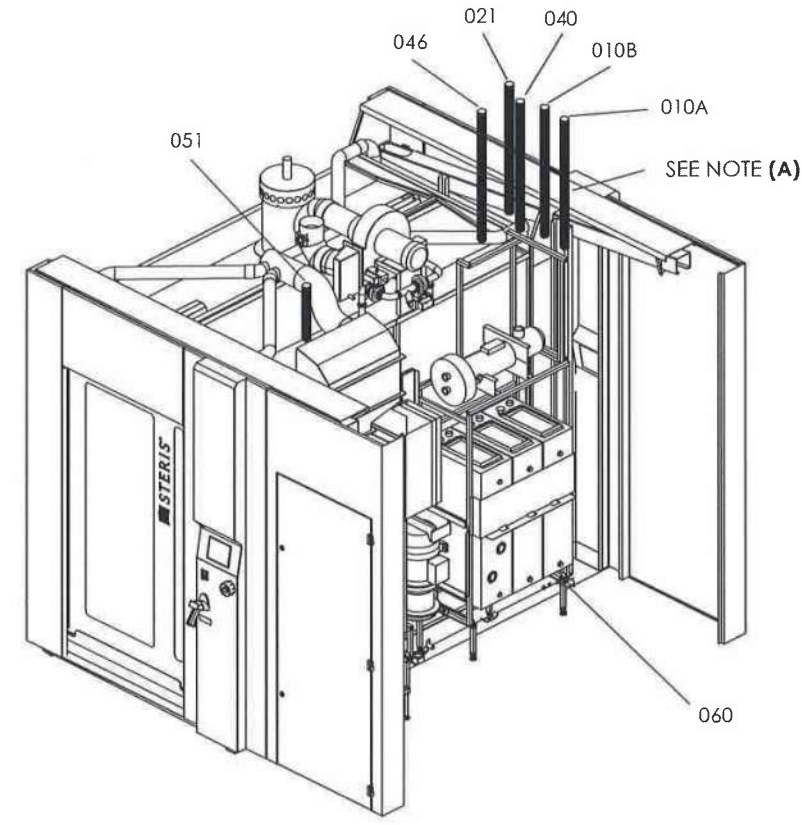
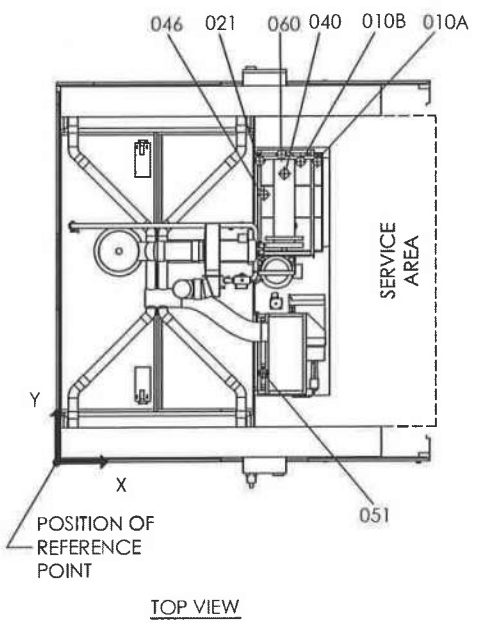
NOTE (B): IF DRAIN COOLING SYSTEM IS ENABLED, MAX FLOW RATE IS 110-120 US GPM [416-454 L/MIN]. (CONT'D (6, C7))

NOTE (C): RECOMMENDED MAXIMUM 8" [203.2]mm (ROUND OR SQUARE) X 6" [152.4] DEEP, FLOOR SINK WITH MINIMUM 4" [101]mm DRAIN OUTLET. (CONT'D(6, D7))

NOTE(D) : WASHER DRAIN OUTLET MAY NOT ALIGN PERFECTLY WITH CENTER OF FLOOR SINK EDGES OF FLOOR SINK MUST BE AT LEAST 1" FROM THE WASHER DRAIN. (CONT'D (6,D3, D4, D8, 060))

		STERIS Canodo Corporation <small>This document contains confidential and proprietary information of STERIS Corporation. Neither this document nor the information herein are to be reproduced, distributed, used or disclosed, either in part or in whole, except as specifically authorized by STERIS Corporation.</small>	TITLE VISION® 1327 CART AND UTENSILS WASHER/DISINFECTOR	
DWG. NO.	920-513-916	DATE	2013-03-16	6 SHEET OF 14
REV. NO.	6.1	DATE	2013-06-25	

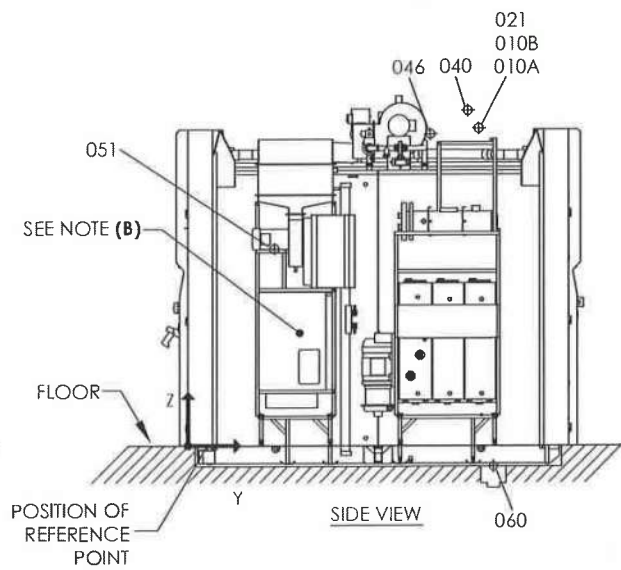
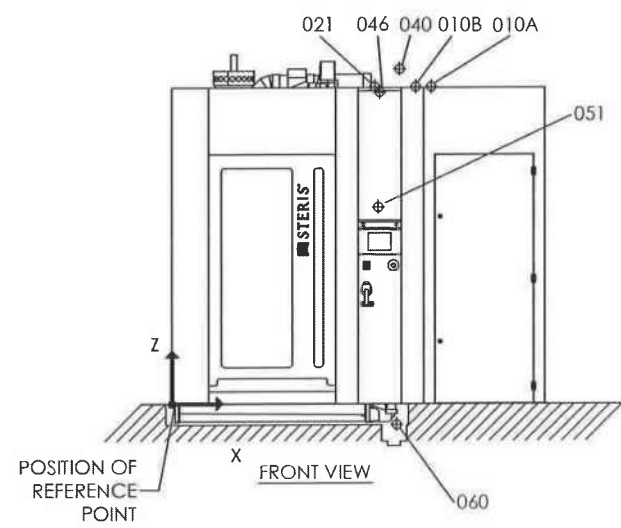
UTILITY (PLUMBING) CONNECTION POSITION FOR PIT-MOUNTED UNIT



GENERAL NOTES:

- EXTERNAL ISOLATION VALVES, UNIONS, VACUUM BREAKERS ON UTILITY LINES TO WASHER NOT PROVIDED BY STERIS.
- PIPE SIZES SHOWN INDICATE TERMINAL OUTLET ONLY FOR THE EQUIPMENT.
- ALL CONNECTIONS SHOULD BE IN ACCORDANCE WITH LOCAL CODES.
- SEE PAGE 1 FOR POSITION OF REFERENCE POINT DETAILS.
- MINIMUM INLET STEAM PRESSURE TAKES INTO ACCOUNT NATURAL PRESSURE LOSSES IN WASHER STEAM PLUMBING, AS WELL AS A CONDENSATE RETURN MAXIMUM RISE OF 17' [5.2 M], MEASURED FROM BASE OF WASHER OR AN EQUIVALENT PRESSURE LOSS. ANY ADDITIONAL PRESSURE LOSS WILL HAVE TO BE COMPENSATED EITHER BY INCREASING THE INLET STEAM PRESSURE, BEING CAREFUL NOT TO EXCEED ALLOCATED MAXIMUM, OR BY ENSURING THAT THE STEAM SUPPLY OF THE CUSTOMER TAKES CHARGE OF THE CONDENSATE RETURN AT THE LOCATION INDICATED.
- INSTALLATION OF A WATER HAMMER ARRESTOR (NOT BY STERIS) IS RECOMMENDED.
- A LOW PRESSURE CONDENSATE RETURN SYSTEM IS REQUIRED AND NOT TO EXCEED 10 PSIG.
- ALL OVER PRESSURE DEVICES TO CONTROL PRESSURE OF AIR, STEAM AND WATER ARE NOT INCLUDED. IT IS RESPONSABILITY OF CUSTOMER TO INSTALL THOSE EQUIPMENT ON MAIN UTILITIES.**
- CUSTOMER MUST PROVIDE UTILITY CONNECTIONS WITH SHUTOFFS DISCONNECTS WITHIN 2 FEET OF THE PERIMETER OF THE EQUIPMENT AND BELOW THE CEILING DECK. STERIS (SELLER) INCLUDES FINAL HOOKUP OF THESE NECESSARY UTILITIES WHEN THE STERIS INSTALLATION PACKAGE IS PURCHASED.

NOTE (A) : DO NOT PLACE PIPING IN SERVICE ACCESS AREA, SEE PAGE 1 FOR TYPICAL INSTALLATION.
 NOTE (B) : SIGNAL AVAILABLE FOR WATER REQUEST INSIDE ELECTRICAL BOX, -SEE UTILITY ELECTRICAL PAGE -INSTALL BY ELECTRICIAN ONLY
 NOTE (C) : REFERE TO PAGE 5 AND 6 FOR DRAIN POSITION DETAILS.

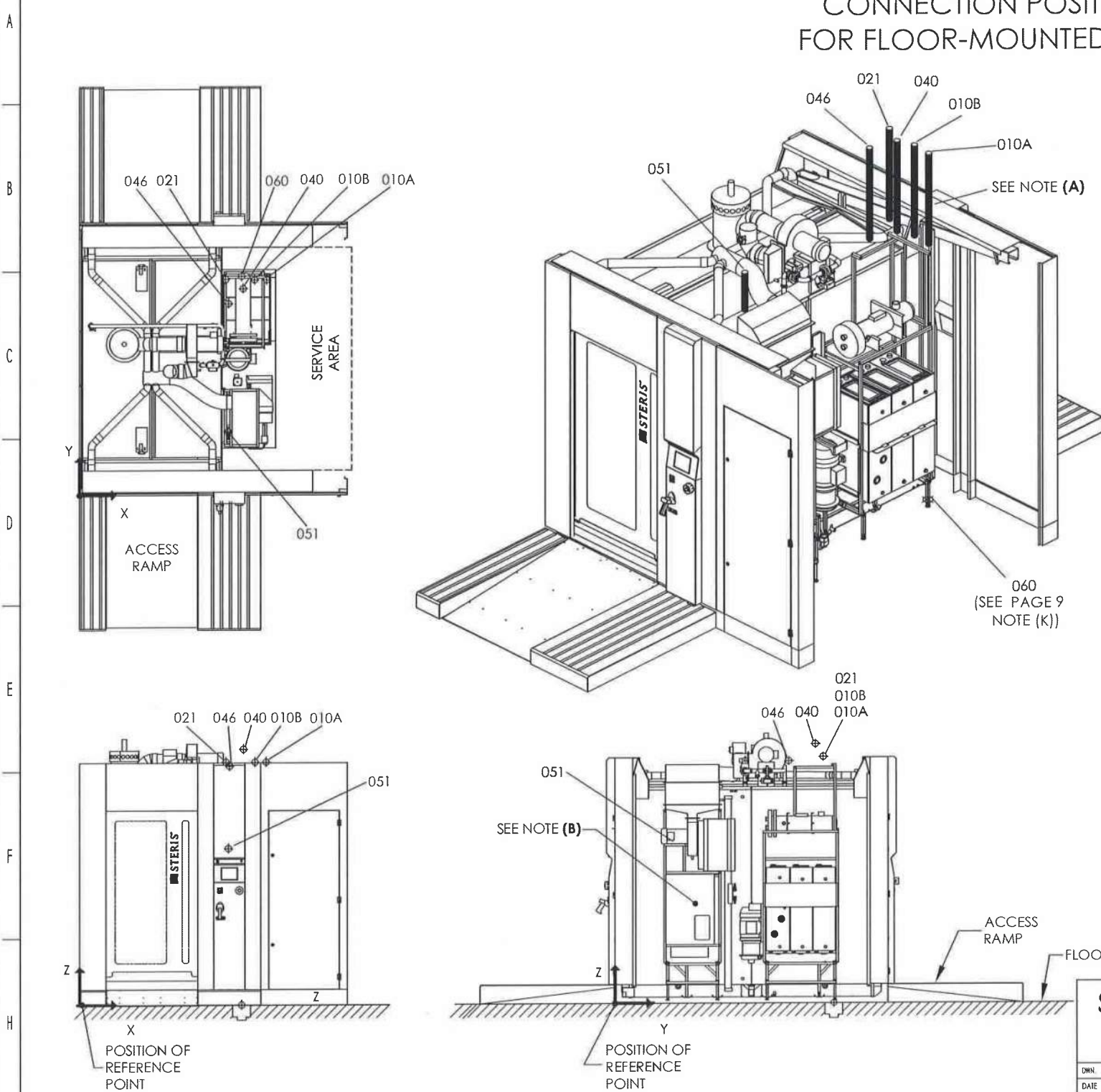


CONNECTION POSITION WITH REFERENCE POINT				
	DESCRIPTION	X	Y	Z
010A	HOT WATER	83 3/4 [2114]	96 1/4 [2444]	102 1/4 [2597]
010B	COLD WATER	78 3/8 [1990]	96 1/4 [2444]	102 1/4 [2597]
021	PURE WATER (OPTION)	65 3/8 [1660]	96 1/2 [2451]	102 [2590]
040	STEAM	73 1/4 [1860]	92 7/8 [2359]	107 7/8 [2740]
046	CONDENSATE RETURN	67 [1701]	85 1/4 [2165]	100 1/2 [2552]
051	AIR	66 5/8 [1692]	26 7/8 [682]	63 1/2 [1612]
060	DRAIN CONNECTION	72 3/8 [1838]	98 1/4 [2495]	-6 3/4 [-171]

NOTE (C)

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UTILITY (PLUMBING) CONNECTION POSITION FOR FLOOR-MOUNTED UNIT



GENERAL NOTES:

- EXTERNAL ISOLATION VALVES, UNIONS, VACUUM BREAKERS ON UTILITY LINES TO WASHER NOT PROVIDED BY STERIS.
- PIPE SIZES SHOWN INDICATE TERMINAL OUTLET ONLY FOR THE EQUIPMENT.
- ALL CONNECTIONS SHOULD BE IN ACCORDANCE WITH LOCAL CODES.
- SEE PAGE 1 FOR POSITION OF REFERENCE POINT DETAILS.
- MINIMUM INLET STEAM PRESSURE TAKES INTO ACCOUNT NATURAL PRESSURE LOSSES IN WASHER STEAM PLUMBING, AS WELL AS A CONDENSATE RETURN MAXIMUM RISE OF 17' [5.2 M]. MEASURED FROM BASE OF WASHER OR AN EQUIVALENT PRESSURE LOSS. ANY ADDITIONAL PRESSURE LOSS WILL HAVE TO BE COMPENSATED EITHER BY INCREASING THE INLET STEAM PRESSURE, BEING CAREFUL NOT TO EXCEED ALLOCATED MAXIMUM, OR BY ENSURING THAT THE STEAM SUPPLY OF THE CUSTOMER TAKES CHARGE OF THE CONDENSATE RETURN AT THE LOCATION INDICATED.
- INSTALLATION OF A WATER HAMMER ARRESTOR (NOT BY STERIS) IS RECOMMENDED.
- A LOW PRESSURE CONDENSATE RETURN SYSTEM IS REQUIRED AND NOT TO EXCEED 10 PSIG.
- ALL OVER PRESSURE DEVICES TO CONTROL PRESSURE OF AIR, STEAM AND WATER ARE NOT INCLUDED. IT IS RESPONSIBILITY OF CUSTOMER TO INSTALL THOSE EQUIPMENT ON MAIN UTILITIES.**
- CUSTOMER MUST PROVIDE UTILITY CONNECTIONS WITH SHUTOFFS DISCONNECTS WITHIN 2 FEET OF THE PERIMETER OF THE EQUIPMENT AND BELOW THE CEILING DECK. STERIS (SELLER) INCLUDES FINAL HOOKUP OF THESE NECESSARY UTILITIES WHEN THE STERIS INSTALLATION PACKAGE IS PURCHASED.

NOTE (A) : DO NOT PLACE PIPING IN SERVICE ACCESS AREA, SEE PAGE 1 FOR TYPICAL INSTALLATION.
 NOTE (B) : SIGNAL AVAILABLE FOR WATER REQUEST INSIDE ELECTRICAL BOX.
 -SEE UTILITY ELECTRICAL PAGE
 -INSTALL BY ELECTRICIAN ONLY

CONNECTION POSITION WITH REFERENCE POINT				
	DESCRIPTION	X	Y	Z
010A	HOT WATER	83 3/4 [2114]	96 1/4 [2444]	109 1/4 [2774]
010B	COLD WATER	7B 3/8 [1990]	96 1/4 [2444]	109 1/4 [2774]
021	PURE WATER (OPTION)	65 3/8 [1660]	96 1/2 [2451]	109 [2768]
040	STEAM	73 1/4 [1860]	92 7/8 [2359]	114 7/8 [2917]
046	CONDENSATE RETURN	67 [1701]	85 1/4 [2165]	107 1/2 [2730]
051	AIR	66 5/8 [1692]	26 7/8 [682]	70 1/2 [1790]
060	DRAIN CONNECTION	72 3/8 [1838]	98 1/4 [2495]	0[0]

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DWG. NO. 920-513-916 SHEET OF 14	<h2 style="margin: 0;">GENERAL INFORMATIONS</h2>	ENGINEERING CHANGE ECN1310-908 REV. NO. 6.1 REVISION DATE 2013-06-20
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UTILITY REQUIREMENTS CHART (F) (G)								
DESCRIPTION	CONNECTION		PRESSURE RANGE (D)		OPERATING CONSUMPTION	TEMP. RANGE	AIR QUALITY	WATER QUALITY
	TYPE	SIZE	DYNAMIC	STATIC				
010A	HOT WATER	NPT BSPT	1 1	15-50 PSIG [1.0-3.4 BAR]	MAX. 90 PSIG [6.2 BAR]	19-35 US GPM [72-132 L/MIN]	110-150 °F (E) [43-65.6 °C]	120 PPM
010B	COLD WATER	NPT	1	30-50 PSIG [1.4-3.4 BAR]	MAX. 90 PSIG [6.2 BAR]	30-38.5 US GPM [114-146 L/MIN] (J)	40-70 °F [4.4-21 °C]	120 PPM
021	PURE WATER OPTION	NPT	3/4	5-50 PSIG [0.3-3.4 BAR]	MAX. 90 PSIG [6.2 BAR]	12-28 US GPM [45-106 L/MIN]	180°F MAX [82°C]	0.1 megaOhm.cm
040	STEAM (B)	NPT BSPT	1-1/2 1-1/2	30-80 PSIG [2.1-5.5 BAR]	MAX. 90 PSIG [6.2 BAR]	[900-1400] [LB/HR] [409-636] [KG/HR] PEAK: 1400 LB/H [636KG/H] FOR 90 sec.		
046	CONDENSATE RETURN	NPT BSPT	1 1	MAX. 10 PSIG [0.7 BAR]		PEAK: 2.9 US GPM [11 L/MIN]		
051	COMPRESSED AIR	NPT BSPT	1/2 1/2	MIN. 80 PSIG [5.5 BAR]	MAX. 125 PSIG [8.6 BAR]	6 SCFM [0.17 M³/MIN]	(A)	
060	DRAIN (K)	O.D.	4[101]			60 US GPM [227 L/MIN] (C)		

GENERAL NOTES:

- LARGEST UNCRATED PIECE: SUMP
- SIZE: 71" W. X 7" H. X 113" L. [1803W. X 178H X 2870]
- WEIGHT: 423LBS [195Kg]
- HEAVEST UNCRATED PIECE: MECHANICAL CORE
- SIDE 21" W X 68" H X 44" L [533X1727 X 1117].
- MAXIMUM WEIGH T : 1000 LBS [453Kg]

-SHIPPING DIMENSION :

CRATE A : 49" W X 82" H X 121" L [1245 X 2083 X 3074]

CRATE B : 49" W X 82" H X 121" L [1245 X 2083 X 3074]

CRATE C : 36" W X 89-1/2" H X 70" L [914 X 2273 X 1778]

CRATE D : 49" W X 54" H X 121" L [1245 X 1372 X 3073]

-OPERATING WEIGHT Lb[kg]: - WITH CABINET, WATER AND TWO HEAVY CASE CARTS 7483 LBS [3400 kg]

- WITHOUT CABINET, WITH WATER AND TWO HEAVY CASE CARTS 6367 LBS [2893 kg]

-OPENING AREA FROM SERVICE AREA TO CLEAN SIDE : LESS THAN 30 po² [19354]mm².

TYPICAL CYCLES

	WASH	THERMAL	DRYING
HOT WATER (gal [L])			
CYCLE	CART	CART	CART
FIRST CYCLE	25 [95]	25 [95]	N/A
CONSECUTIVE CYCLES	7 [26]	7 [26]	N/A
PURE WATER (gal [L]) OPTION (H)			
FIRST CYCLE	N/A	25 [95]	N/A
CONSECUTIVE CYCLES	N/A	7 [26]	N/A
COLD WATER (gal [L])			
FIRST CYCLE	N/A	N/A	N/A
CONSECUTIVE CYCLES	N/A	N/A	N/A
COLD WATER FOR DRAIN COOLING (gal [L])			
IF RECYCLING	0 (I)	7 [26]	N/A
NOT RECYCLING	0 (I)	46 [175]	N/A
STEAM [WITH HOT TAP WATER @ 140F [60C]] (lb [kg])			
ALL	N/A	28[13]	3.4[1.5]
DETERGENT (PUC) [oz [ml]]			
FIRST CYCLE	2.5 [75]	0.5 [15]	N/A
CONSECUTIVE CYCLES	0.7 [21]	0.14 [4.2]	N/A

NOTE (A) : COMPRESSED AIR SPECIFICATIONS : AS PER ISO-8573-1 CLASS 5.

- MAX. PARTICLE SIZE : 40 MICRONS
- MAX. PARTICLE DENSITY : 10 MG/M³
- MAX. DEW POINT FOR WATER CONTENT : 45°F (7°C)
- MAX. OIL CONCENTRATION FOR THE OIL CONTENT : 25 MG/M³
- A REFRIGERATED AIR DRYER IS RECOMMENDED WHERE ENVIRONMENTAL DEW POINT CONDITIONS ARE HIGHER THAN RECOMMENDED (CONTACT STERIS SALES REPRESENTATIVE).

NOTE (B) : STEAM QUALITY: CLEAN AND DRY RECOMMENDED.

NOTE (C) : IF DRAIN COOLING SYSTEM IS ENABLED, MAX FLOW RATE IS 110-120 US GPM [416-454 L/MIN].

NOTE (D) : OPTIMAL WASHER PERFORMANCES OBTAINED WHEN UTILITIES ARE PROVIDED AT MAX VALUE OF RANGE.

NOTE (E) : OPTIMAL CLEANING EFFICIENCY WHEN HOT WATER IS AT A MAXIMUM OF 135° F [57.2°C].

NOTE (F) : **ALL OVER PRESSURE DEVICES TO CONTROL PRESSURE OF AIR, STEAM AND WATER ARE NOT INCLUDED. IT IS RESPONSABILITY OF CUSTOMER TO INSTALL THOSE EQUIPMENT ON MAIN UTILITIES.**

NOTE (G) : STERIS DOES NOT RECOMMEND INSTALLATION OF SPRINKLER OVER THE UNIT BUT IF REQUIRED BY LOCAL CODE IT MUST BE FUSE TO 260°F [126°C] OR ABOVE. ANY SPRINKLER HEADS IN FRONT OF THE LOAD/UNLOAD DOORS MUST ALSO BE FUSE TO 260°F [126°C] OR ABOVE.

NOTE (H) : THIS CONSUMPTION REPLACES HOT WATER CONSUMTION FOR THERMAL PHASE AND RINSE (IF PURE WATER OPTION).

NOTE (I) : IF CYCLE SET POINT TEMPERATURE IS HIGHER THAN 140°F [60°C], THESE CONSUMPTIONS ARE EQUAL TO THERMAL PHASE CONSUMPTIONS.

NOTE (J) : IF DRAIN COOLING SYSTEM IS ENABLED, MAX FLOW RATE IS 30-60 US GPM [113-227 L/MIN].

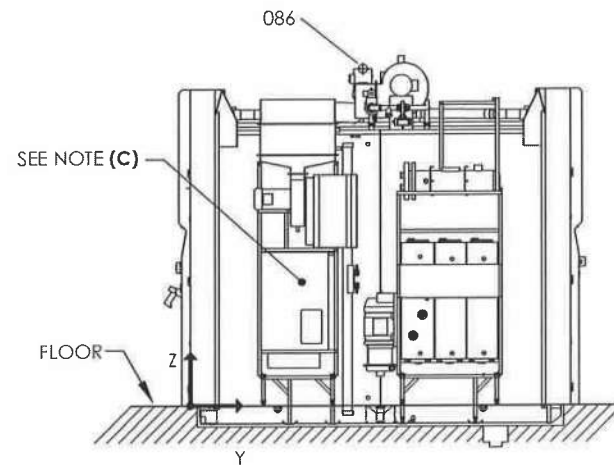
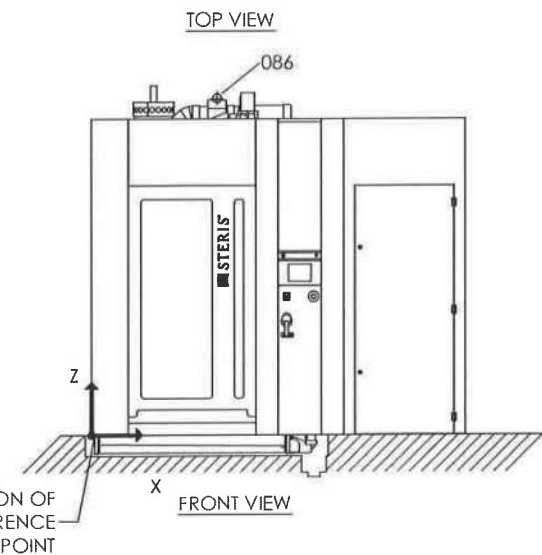
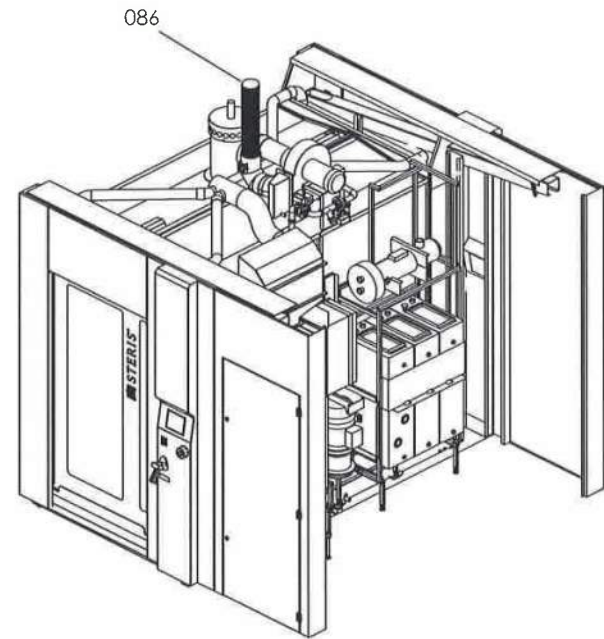
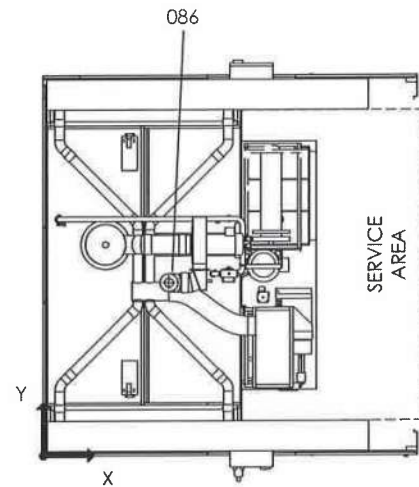
NOTE (K) : RECOMMENDED MINIMUM 8" [228]mm (ROUND OR SQUARE) X 6" [152.4] DEEP FLOOR SINK WITH MINIMUM 4" [101]mm DRAIN OUTLET.

STERIS	STERIS Canada Corporation	TITLE VISION® 1327 CART AND UTENSILS WASHER/DISINFECTOR
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UTILITY (VENTILATION) FOR PIT-MOUNTED UNIT



UTILITY REQUIREMENTS CHART

DESCRIPTION	CONNECTION TYPE	MIN. SIZE	OPERATING CONSUMPTION (A) (D)	NOMINAL TEMP.

- NOTE (A): - INSTALLATION OF EXTERNAL DUCTING FROM WASHER EXHAUST FAN TO THE EXTERIOR OF THE BUILDING (NOT BY STERIS) MUST NOT EXCEED 1" H₂O IN PRESSURE LOSS TO ENSURE OPTIMAL DRYING PERFORMANCE OF THE WASHER AND FAN MOTOR EFFICIENCY. IF PRESSURE LOSS OF EXTERNAL DUCTING EXCEEDS 1" H₂O, AN EXTERNAL FAN MUST BE INSTALLED TO COMPENSATE (NOT BY STERIS). THIS PRESSURE DROP MUST BE VALIDATED DURING INSTALLATION. SERVICE TECHNICIAN MUST FOLLOW THE INSTALLATION MANUAL PROCEDURE TO MEASURE THIS DATA:
- BUILDING DUCT MUST BE SCALED UP TO 10" [254 MM] O.D. MINIMUM AS CLOSE AS POSSIBLE TO WASHER DUCT CONNECTION (ADAPTOR FROM 6" TO BUILDING DUCT O.D. NOT PROVIDED BY STERIS).
 - FACILITY ROOM VENTILATION MUST COMPENSATE FOR WASHER EXHAUST FLOW RATE.
 - FOR ALL VENTILATION DUCTING FROM WASHER, STERIS RECOMMENDS INSTALLATION OF A DEDICATED CORROSION-PROOF AND WATERTIGHT DUCT RATED TO AN OPERATING TEMPERATURE OF 210°F (99°C) OR MORE TO THE EXTERIOR OF THE BUILDING, SLOPED TOWARD THE WASHER AND FREE OF DEAD LEGS.
- NOTE (B): EXHAUST FAN NORMALLY OPEN-AUXILIARY CONTACTS ARE AVAILABLE FOR LOW FLOW AND HIGH FLOW TO SUPPLY A SIGNAL TO THE FACILITY HVAC CONTROL SYSTEM WHENEVER THE CART WASHER VENTILATION EXHAUST FAN IS IN OPERATION.
- NOTE (C): SIGNAL AVAILABLE FOR EXTERNAL VENTILATION CONTROL INSIDE ELECTRICAL BOX.
-SEE UTILITY ELECTRICAL PAGE
-INSTALL BY ELECTRICIAN ONLY
- NOTE (D): INTERNAL DRYING AND EXHAUST FANS PRODUCE 950 SCFM AND BUILDING EXHAUST NEEDS TO EXHAUST AT THE RATE OF 1000 SCFM.

GENERAL NOTES:

1. ALL CONNECTIONS SHOULD BE IN ACCORDANCE WITH LOCAL CODES.
2. SEE PAGE 1 FOR POSITION OF REFERENCE POINT DETAILS.

RELAY	FUNCTION	HEAT LOSS - BTU/H AT 75°F [24°C]			
		AVERAGE FOR PRE-PROGRAMMED CYCLE			
CR5	CYCLE IN OPERATION	RECESSED ONE WALL		RECESSED TWO WALLS	
		FRONT OF WALL	BACK OF WALL	AT EACH END	BETWEEN WALLS
CR6	LOW VENTILATION REQUEST (250 SCFM)	13800	4000	9800	4000
CR7	HIGH VENTILATION REQUEST (1000 SCFM)	[4039 W]	[1171 W]	[2868 W]	[1171 W]
				5800	[1697 W]

CONNECTION POSITION WITH REFERENCE POINT

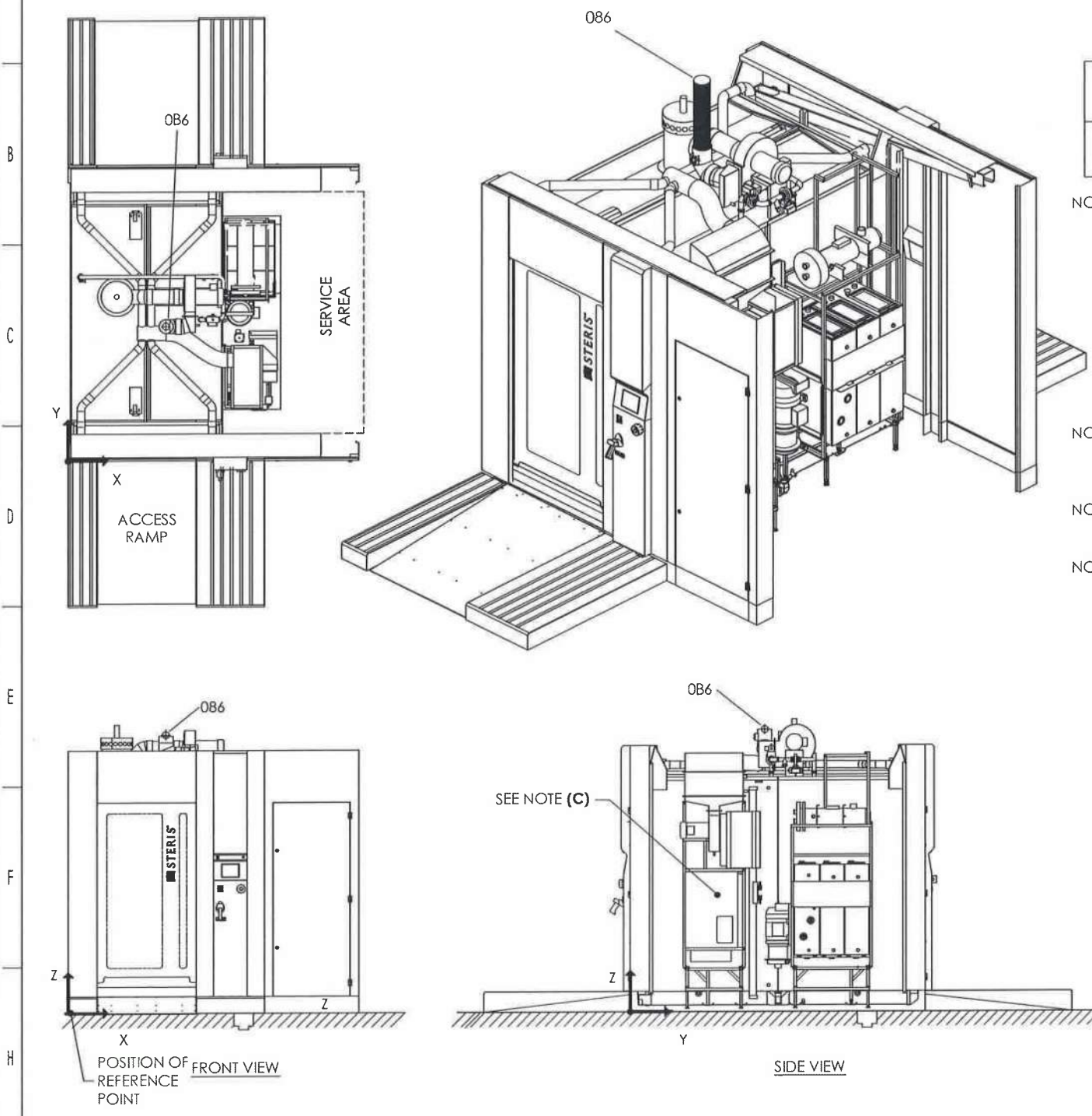
DESCRIPTION	X	Y	Z
086 VENTILATION	40 3/8 [1025]	55 3/4 [1416]	108 1/2 [2756]

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UTILITY (VENTILATION) FOR FLOOR-MOUNTED UNIT



DESCRIPTION	CONNECTION		OPERATING CONSUMPTION (A) (D)	NOMINAL TEMP.
	TYPE	MIN. SIZE		
086 VENTILATION (B)	O.D.	6 [152]	1000 SCFM, VAPOR EXHAUST AND DRYING [28.31 M ³ /MIN] 250 SCFM, WASH AND RINSE [7.07 M ³ /MIN]	212°F MAX. [100°C]

- NOTE (A): - INSTALLATION OF EXTERNAL DUCTING FROM WASHER EXHAUST FAN TO THE EXTERIOR OF THE BUILDING (NOT BY STERIS) MUST NOT EXCEED 1" H₂O IN PRESSURE LOSS TO ENSURE OPTIMAL DRYING PERFORMANCE OF THE WASHER AND FAN MOTOR EFFICIENCY. IF PRESSURE LOSS OF EXTERNAL DUCTING EXCEEDS 1" H₂O, AN EXTERNAL FAN MUST BE INSTALLED TO COMPENSATE (NOT BY STERIS). THIS PRESSURE DROP MUST BE VALIDATED DURING INSTALLATION. SERVICE TECHNICIAN MUST FOLLOW THE INSTALLATION MANUAL PROCEDURE TO MEASURE THIS DATA:
- BUILDING DUCT MUST BE SCALED UP TO 10" [254 MM] O.D. MINIMUM AS CLOSE AS POSSIBLE TO WASHER DUCT CONNECTION (ADAPTOR FROM 6" TO BUILDING DUCT O.D. NOT PROVIDED BY STERIS).
 - FACILITY ROOM VENTILATION MUST COMPENSATE FOR WASHER EXHAUST FLOW RATE.
 - FOR ALL VENTILATION DUCTING FROM WASHER, STERIS RECOMMENDS INSTALLATION OF A DEDICATED CORROSION-PROOF AND WATERTIGHT DUCT RATED TO AN OPERATING TEMPERATURE OF 210°F (99°C) OR MORE TO THE EXTERIOR OF THE BUILDING, SLOPED TOWARD THE WASHER AND FREE OF DEAD LEGS.
- NOTE (B): EXHAUST FAN NORMALLY OPEN-AUXILIARY CONTACTS ARE AVAILABLE FOR LOW FLOW AND HIGH FLOW TO SUPPLY A SIGNAL TO THE FACILITY HVAC CONTROL SYSTEM WHENEVER THE CART WASHER VENTILATION EXHAUST FAN IS IN OPERATION. DO NOT PLACE DUCT WORK TO INTERFERE WITH SERVICE ACCESS AREA SEE PAGE 1 FOR TYPICAL INSTALLATION.
- NOTE (C): SIGNAL AVAILABLE FOR EXTERNAL VENTILATION CONTROL INSIDE ELECTRICAL BOX.
-SEE UTILITY ELECTRICAL PAGE
-INSTALL BY ELECTRICIAN ONLY
- NOTE (D): INTERNAL DRYING AND EXHAUST FANS PRODUCE 950 SCFM AND BUILDING EXHAUST NEEDS TO EXHAUST AT THE RATE OF 1000 SCFM.

- GENERAL NOTES:
1. ALL CONNECTIONS SHOULD BE IN ACCORDANCE WITH LOCAL CODES.
 2. SEE PAGE 1 FOR POSITION OF REFERENCE POINT DETAILS.

RELAY	FUNCTION	HEAT LOSS - BTU/H AT 75°F [24°C]				
		AVERAGE FOR PRE-PROGRAMMED CYCLE				
CR5	CYCLE IN OPERATION					
CR6	LOW VENTILATION REQUEST (250 SCFM)					
CR7	HIGH VENTILATION REQUEST (1000 SCFM)					
		RECESSED ONE WALL		RECESSED TWO WALLS		
		TO SERVICE AREA	FRONT OF WALL	BACK OF WALL	AT EACH END	BETWEEN WALLS
		13800 [4039 W]	4000 [1171 W]	9800 [2868 W]	4000 [1171 W]	5800 [1697 W]

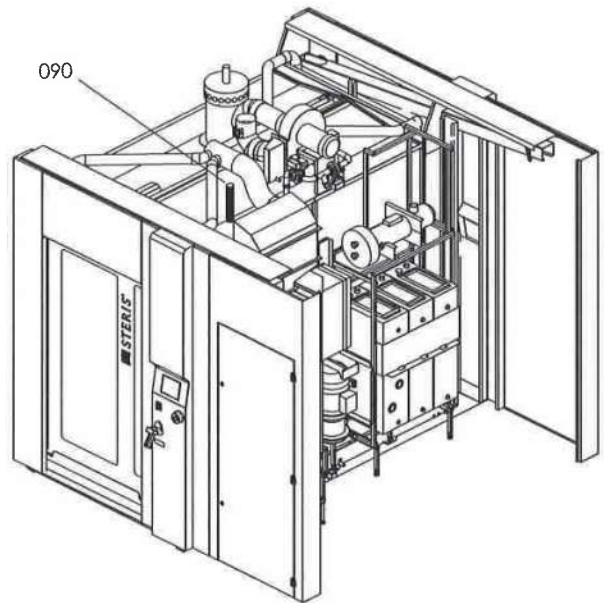
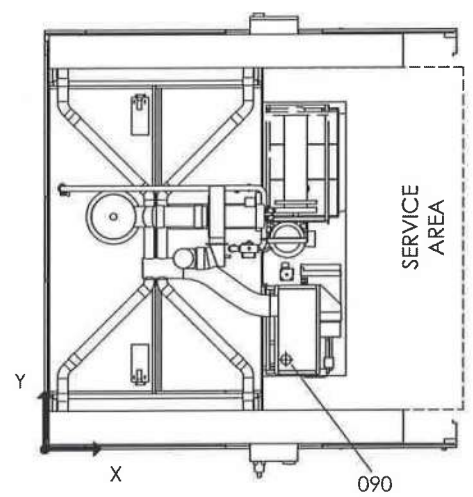
DESCRIPTION	X	Y	Z
086 VENTILATION	40 3/8 [1025]	55 3/4 [1416]	115 1/2 [2934]

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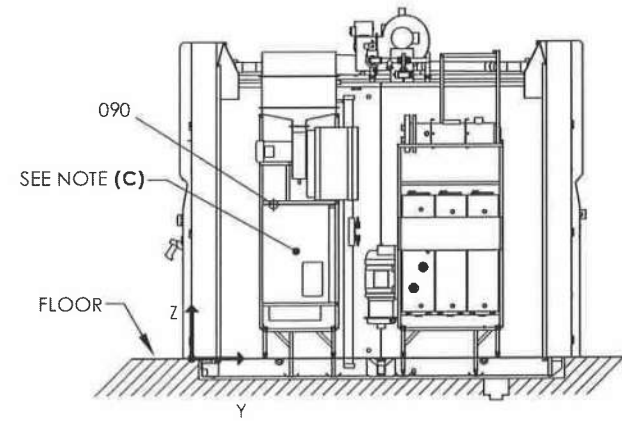
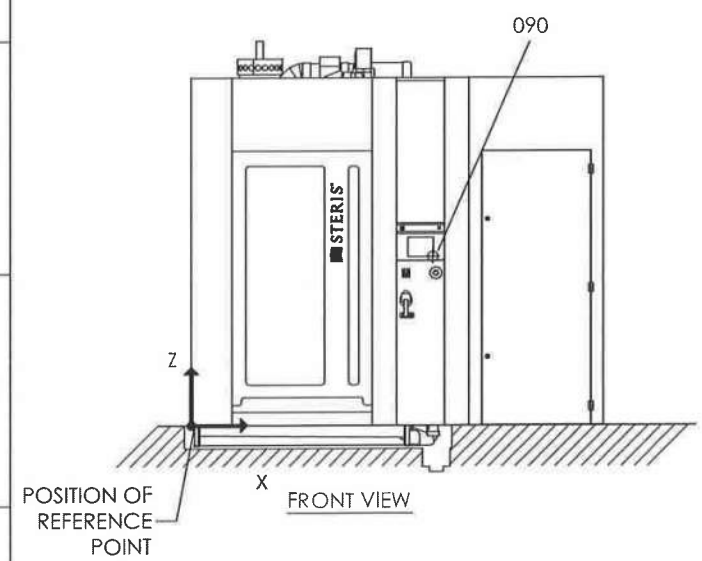
UTILITY (ELECTRICITY) FOR PIT-MOUNTED UNIT



UTILITY REQUIREMENTS CHART			
DESCRIPTION	CONNECTION	CONNECTION	
		TYPE	SIZE
090 ELECTRICITY (A)	CONDUIT	1 - 1 1/4	[35-44]

STANDARD CONFIGURED				
3- OPERATING VOLTAGE (B)	200 / 208V 50Hz	200 / 208V 60Hz	380 / 400 / 415V 50Hz	460 / 480V 60Hz
NOMINAL AMPERAGE	27.5A	25.5A	14.5A	13.5A
RECOMMENDED PROTECTION	40A	40A	20A	20A

TOP VIEW



GENERAL NOTES:

1. STERIS RECOMMENDS A LIGHT IN SERVICE AREA (IF APPLICABLE) ALONG WITH PROVISION OF A CONVENIENCE OUTLET FOR MAINTENANCE.
2. BREAKERS AND FUSED DISCONNECT AS REQUIRED, ARE BY OTHERS.
3. ALL CONNECTIONS SHOULD BE IN ACCORDANCE WITH LOCAL CODES.
4. SEE PAGE 1 FOR POSITION OF REFERENCE POINT DETAILS.

NOTE (A) : SEE OPERATING VOLTAGE BOARD.
 NOTE (B) : NEUTRAL WIRE NOT REQUIRED.
 NOTE (C) : AUXILIARY DRY CONTACTS FOR CUSTOMER UTILITY CONTROL AVAILABLE INSIDE CONTROL BOX. SEE ELECTRICAL SCHEMATIC.

RELAY	FUNCTION
CR5	CYCLE IN OPERATION
CR6	LOW VENTILATION REQUEST
CR7	HIGH VENTILATION REQUEST
CR8	ALARM
CR9	CYCLE COMPLETE
CR10	HOT WATER REQUEST
CR11	PURE WATER REQUEST
CR12	COLD WATER REQUEST

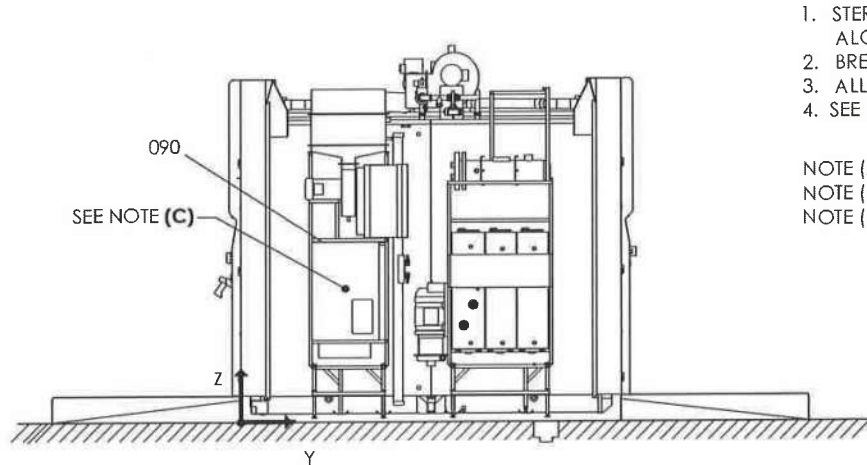
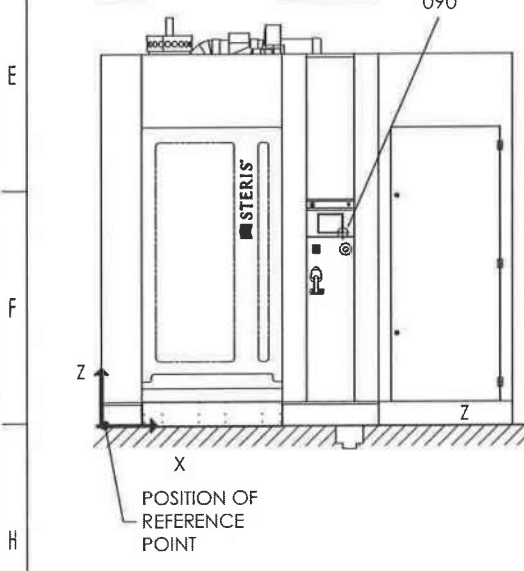
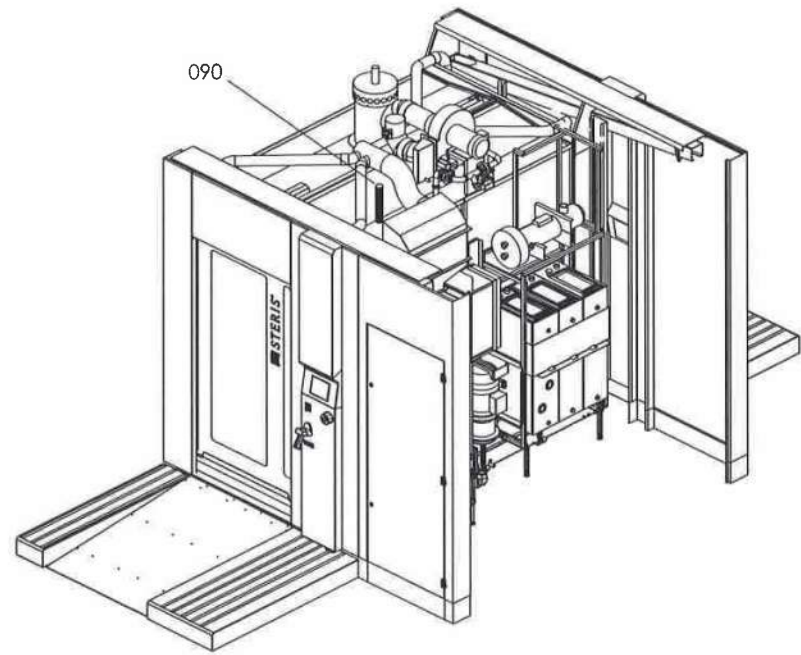
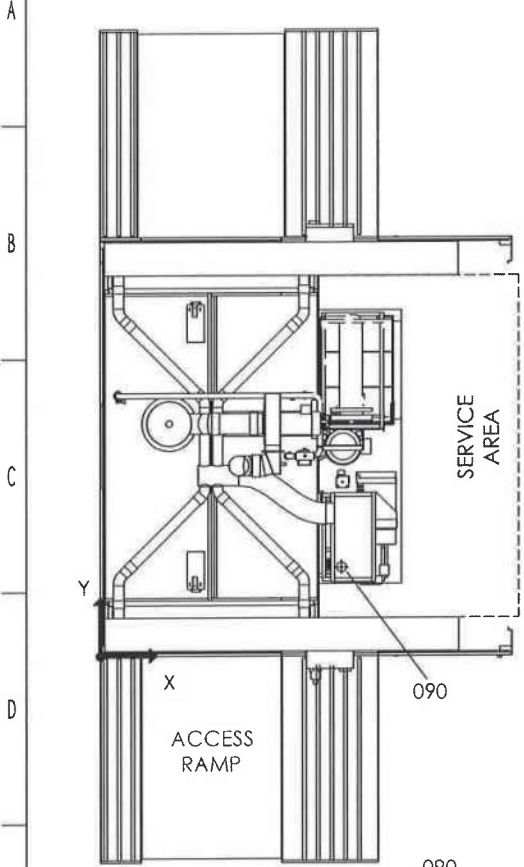
CONNECTION POSITION WITH REFERENCE POINT			
DESCRIPTION	X	Y	Z
090 ELECTRICITY	78 3/8 [1990]	25 7/8 [657]	49 3/8 [1254]

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DWG. NO.	920-513-916	SHEET OF	14
DATE	2013-03-18	DATE	2013-06-20

REF 1 2 3 4 5 6 7 8 9 10 11
 DWG. NO. 920-513-916 13 SHEET OF 14

ENGINEERING CHANGE	REV NO	REVISION DATE
ECN1310-908	6.1	2013-06-20

UTILITY (ELECTRICITY) FOR FLOOR-MOUNTED UNIT



UTILITY REQUIREMENTS CHART			
DESCRIPTION	CONNECTION	TYPE	
		TYPE	SIZE
090 ELECTRICITY (A)	CONDUIT	1 - 1 1/4	[35-44]

STANDARD CONFIGURED				
3~ OPERATING VOLTAGE (B)	200 / 208V 50Hz	200 / 208V 60Hz	380 / 400 / 415V 50Hz	460 / 480V 60Hz
NOMINAL AMPERAGE	27.5A	25.5A	14.5A	13.5A
RECOMMENDED PROTECTION	40A	40A	20A	20A

GENERAL NOTES:

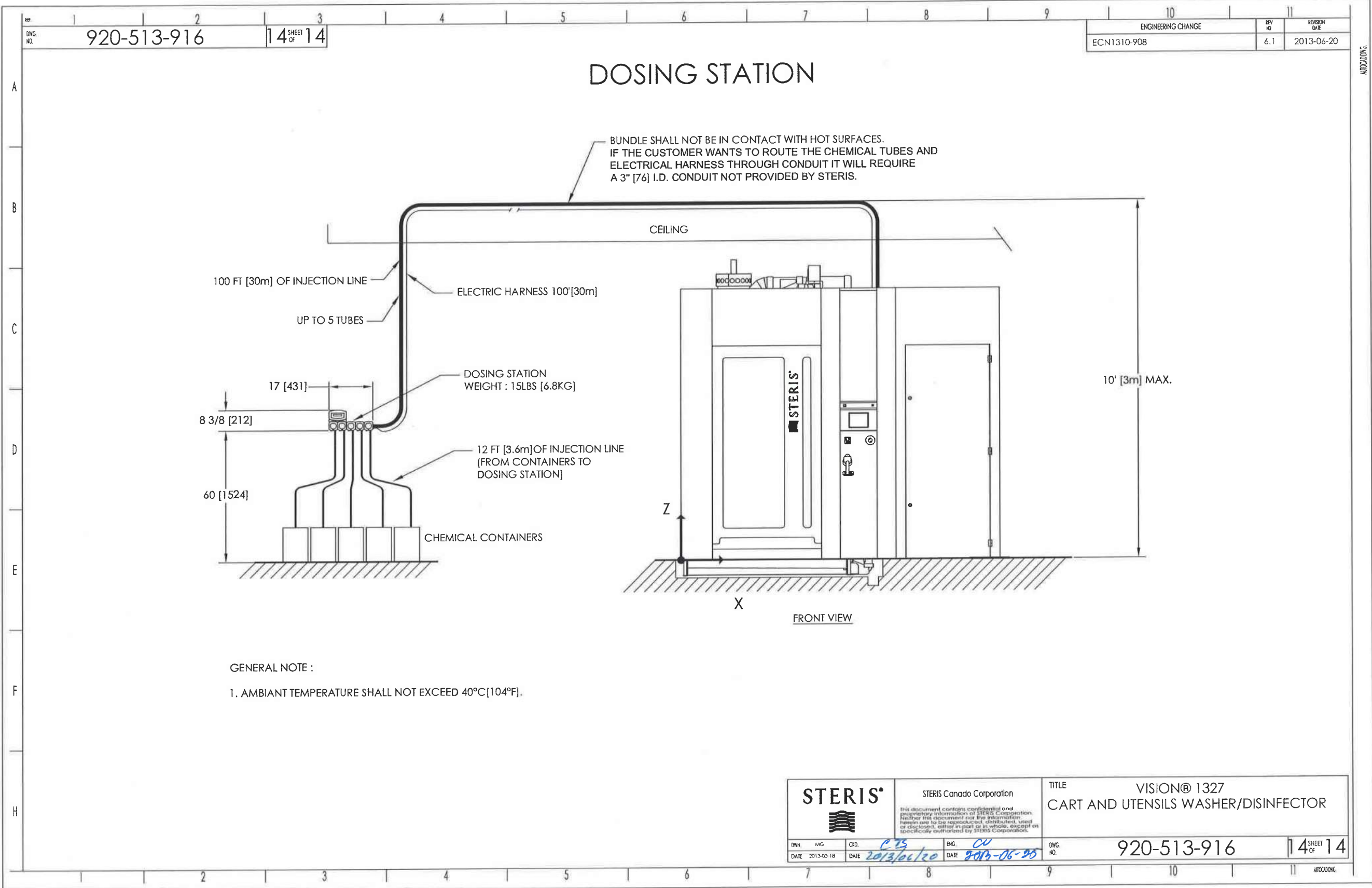
1. STERIS RECOMMENDS A LIGHT IN SERVICE AREA (IF APPLICABLE) ALONG WITH PROVISION OF A CONVENIENCE OUTLET FOR MAINTENANCE.
2. BREAKERS AND FUSED DISCONNECT AS REQUIRED, ARE BY OTHERS.
3. ALL CONNECTIONS SHOULD BE IN ACCORDANCE WITH LOCAL CODES.
4. SEE PAGE 1 FOR POSITION OF REFERENCE POINT DETAILS.

NOTE (A) : SEE OPERATING VOLTAGE BOARD.
 NOTE (B) : NEUTRAL WIRE NOT REQUIRED.
 NOTE (C) : AUXILIARY DRY CONTACTS FOR CUSTOMER UTILITY CONTROL AVAILABLE INSIDE CONTROL BOX. SEE ELECTRICAL SCHEMATIC.

RELAY	FUNCTION
CR5	CYCLE IN OPERATION
CR6	LOW VENTILATION REQUEST
CR7	HIGH VENTILATION REQUEST
CR8	ALARM
CR9	CYCLE COMPLETE
CR10	HOT WATER REQUEST
CR11	PURE WATER REQUEST
CR12	COLD WATER REQUEST


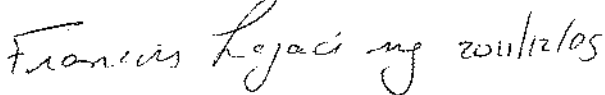
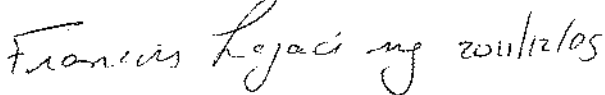
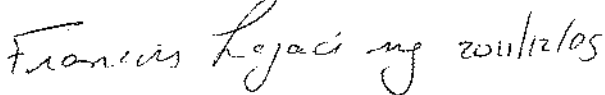
CONNECTION POSITION WITH REFERENCE POINT			
DESCRIPTION	X	Y	Z
090 ELECTRICITY	78 3/8 [1990]	25 7/8 [657]	56.375 [1431]

	STERIS Canada Corporation	TITLE	VISION® 1327 CART AND UTENSILS WASHER/DISINFECTOR
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DWG. NO.	920-513-916	13 SHEET OF 14	
DATE	2013-03-18	DATE	2013-06-25



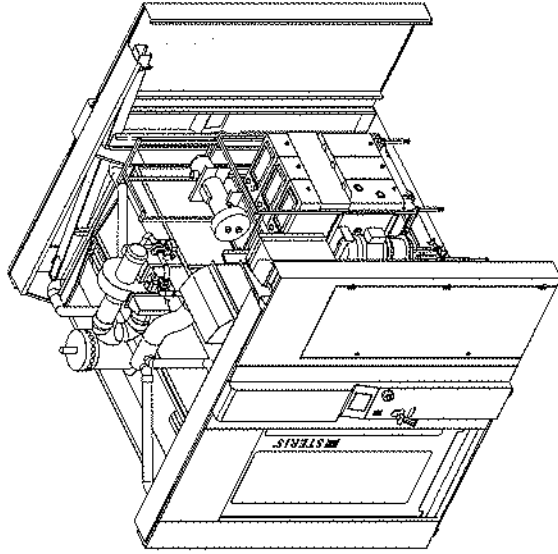
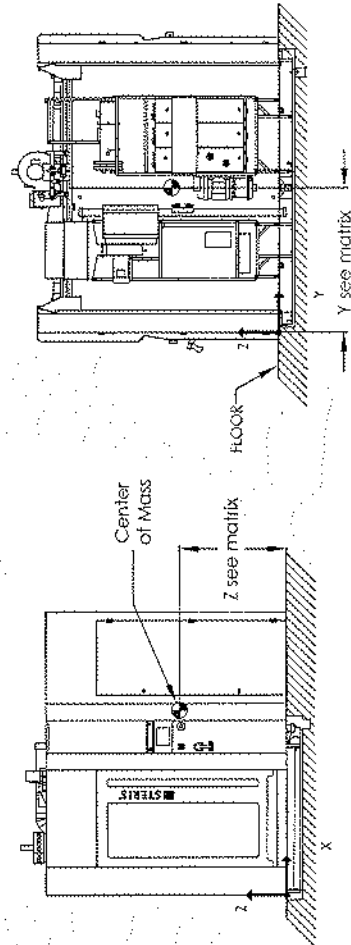
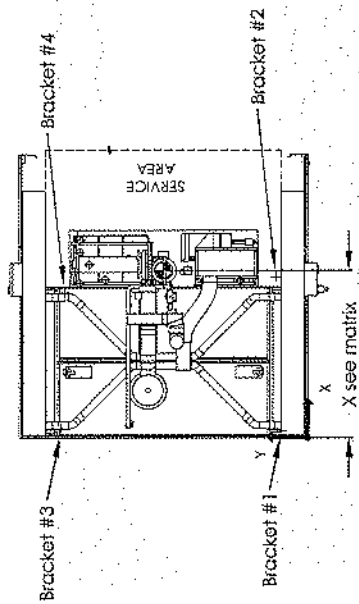
GENERAL NOTE :
 1. AMBIANT TEMPERATURE SHALL NOT EXCEED 40°C [104°F].

		STERIS Canada Corporation <small>This document contains confidential and proprietary information of STERIS Corporation. Neither this document nor the information herein are to be reproduced, distributed, used or disclosed, either in part or in whole, except as specifically authorized by STERIS Corporation.</small>	TITLE VISION® 1327 CART AND UTENSILS WASHER/DISINFECTOR
DWN DATE 2013-02-18	MAG DATE 2013/06/20	C.D. C.25 DATE 2013-06-20	ENG CU DATE 2013-06-20
DWG NO. 920-513-916		14 SHEET OF 14	

 Corporation STERIS Canada STERIS Canada Corporation		Document N ^o . 920-517-365	Modèle/Model Vision® 1321/1327 Cart and Utensils Washer/Disinfector				
Type de document/Document Type Seismic Report		Titre/Title Seismic Anchorage Report					
No. rév./ Rev No.	Date rév/ Rev. Date	HISTORIQUE DES CHANGEMENTS / HISTORY CHANGES					
0	2011-06-03	New Document	M.M.				
1	2011-12-02	Updated version Changed model name on cover page and on drawings title.	M.M.				
<p align="center">Revu et approuvé par/Reviewed and Approved by:</p> <table border="0"> <tr> <td align="center"><i>Nom/Name</i></td> <td align="center"><i>Signature</i></td> </tr> <tr> <td> François Lagacé, ing. Engineering Manager, R&D Department </td> <td align="center">  </td> </tr> </table>				<i>Nom/Name</i>	<i>Signature</i>	François Lagacé, ing. Engineering Manager, R&D Department	
<i>Nom/Name</i>	<i>Signature</i>						
François Lagacé, ing. Engineering Manager, R&D Department							
DISTRIBUTION:			PRÉPARÉ PAR/PREPARED BY: Maxime Métivier, B. Ing.				
<small>GAF-3004-02</small>	<small>Rev.3</small>	<small>1999.12-10</small>					

920-517-365
 SHEET 1 OF 1
 CHANGED MODEL NAME IN TITLE
 2011-12-02

Vision 1321/1327
 Seismic Anchorage



Configuration	Mass		Gravity Center (inch)			Gravity Center (mm)		
	DES	MR	X	Y	Z	X	Y	Z
Vision 1321 - Overall	0662	3027	51.3	146.0	50.7	1292.9	3758.4	1288.2
Vision 1327 - Overall	6039	2744	51.2	145.0	51.3	1280.0	3746.7	1277.4
Operator Weight			0.000	3.368	0.000	0.0	81.0	0.0
Vision 1321 - Bracket #1			0.000	67.500	0.000	0.000	0.000	0.000
Vision 1321 - Bracket #2			0.000	103.175	0.000	0.000	0.000	0.000
Vision 1321 - Bracket #3			0.000	107.500	0.000	0.000	0.000	0.000
Vision 1321 - Bracket #4			0.000	107.500	0.000	0.000	0.000	0.000
Vision 1321 - Overall CASE 2	6868	2990	51.3	145.0	50.7	1282.9	3758.6	1286.2
Vision 1321 - Overall CASE 2	5845	2658	51.2	142.5	51.3	1279.9	3747.4	1277.4
Vision 1321 - Bracket #1			0.000	3.368	0.000	0.0	81.0	0.0
Vision 1321 - Bracket #2			0.000	4.881	0.000	0.000	0.000	0.000
Vision 1321 - Bracket #3			0.000	73.075	0.000	0.000	0.000	0.000
Vision 1321 - Bracket #4			0.000	73.075	0.000	0.000	0.000	0.000

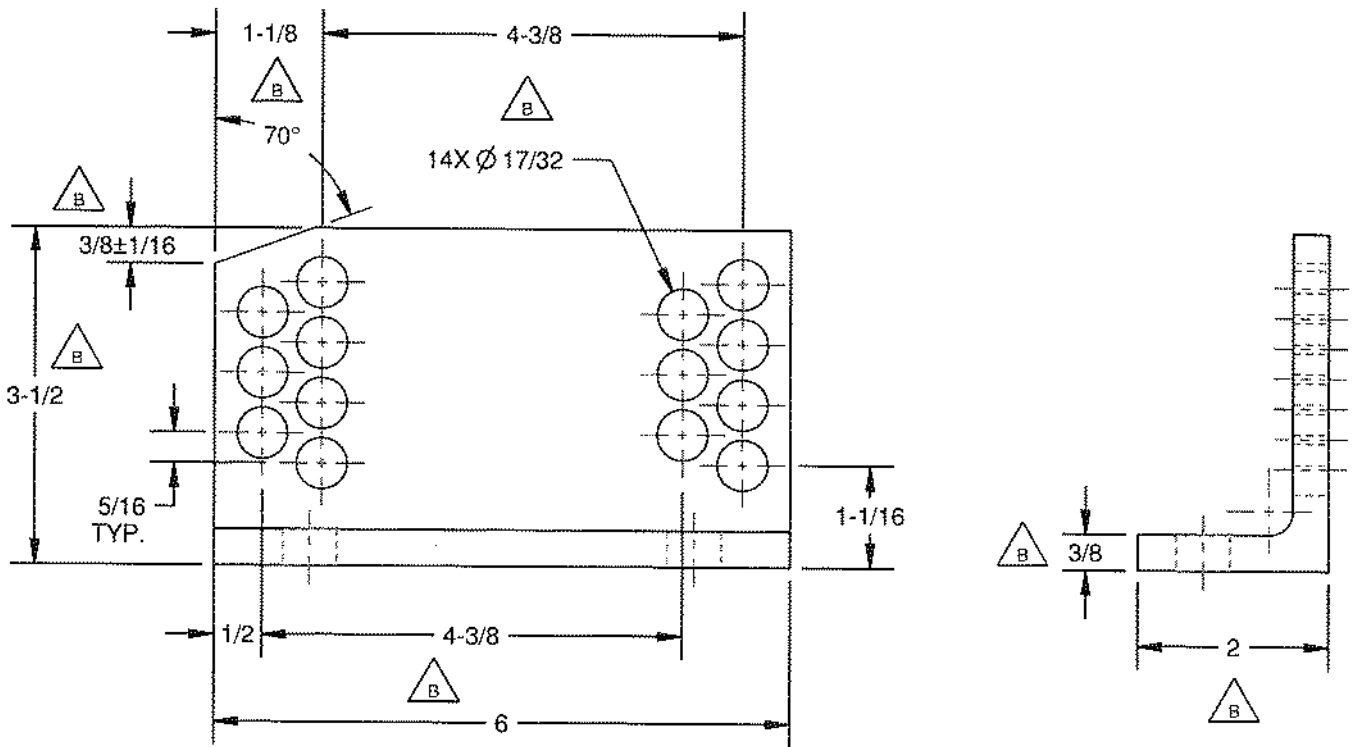
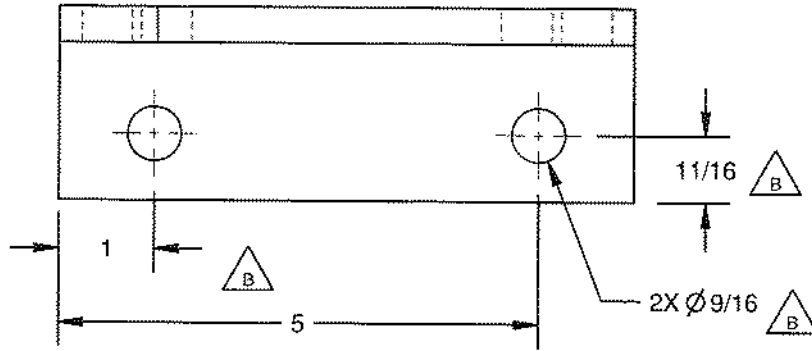
STERIS
 STERIS Canada Corporation
 3650 Victoria Park Blvd., Willowdale, ON M2H 3C9, Canada
 1-800-387-7722

DATE: 2011-12-02
 Dwg No: 920-517-365
 Rev: 1

DATE: 2011-12-02
 Dwg No: 920-517-365
 Rev: 1

DATE: 2011-12-02
 Dwg No: 920-517-365
 Rev: 1

REVISION	DATE	STATE	DESCRIPTION	APPR. BY
B	17-May-11 09:34:10 AM	Officiel	CT11-038	SC



TOLERANCES: +/- PO(MM) IF NOT INDICATED OTHERWISE

MATERIAL / NOTES

MACHINING	DIMENSION	0-48	48+	PLASTIC	DIMENSION	0-4	4-24	24+	A/I_304			
	FRAC.	1/64	1/32		FRAC.	1/64	1/32	1/16				
	DEC.	0.005	0.015		DEC.	0.005	0.020	N/A				
SHEET METAL / SAWING		1/32	1/16		DIMENSION	0-12	12-60	60+				
BORING	DIMENSION	0-1	1+	WELDED ASSEMBLY		1/32	1/16	3/32	DIMENSION	0-3/8	3/8-3/4	3/4 +
		0.001	0.002	SPOT WELD			1/16	3/32	HOLE DIAMETER	0.005	0.015	1/32
SURFACE FINISH	63 machined surface (Visual)			SQUARENESS			1/16 total	1/8 total	ANGLE	1°	WEIGHT: 2.945 LBS	

STERIS



Corporation
STERIS Canada

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L
E
S

SEISMIC ANCHORING 1321/1327

ANCRAGE SEISMIQUE 1321/1327

SIZE:
A

SCALE:
N/A



DRAWN BY:
Grondin, Mario

DRAWING NUMBER:
117-072-783

PART NUMBER:
117-072-783

REVISION:
B

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Sheet

24644



Office of Statewide Health Planning and Development
ANCHORAGE PRE-APPROVAL

OPA-2689-10

Equipment Manufacturer: Steris Corporation

Equipment Type: Vision 1321/1327

GENERAL NOTES

1. EXPANSION ANCHORS:

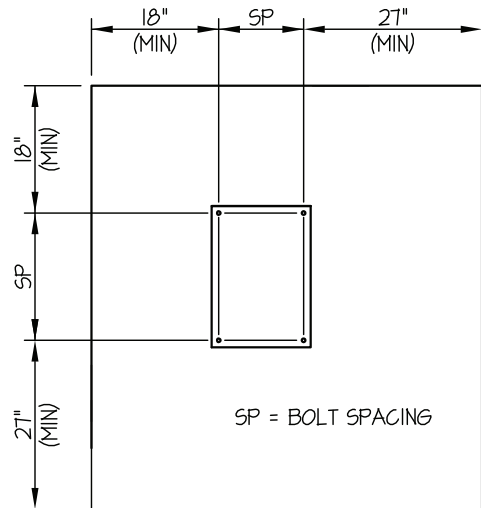
(a) ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

Anchor Diameter	Concrete Type	Min. f _c (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Installation. Torque	Test Loads
1/2"	Hardrock	3000	Hilti Kwik Bolt TZ	ESR-1917	3-1/4"	6"	18"	6"	40 Ft-Lbs	Direct Pull Tension - 2685 lbs

(b) THIS PRE-APPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 18" AWAY MINIMUM (i.e. - CORNER). SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE EDGE DISTANCES.

2. TESTING OF EXPANSION ANCHORS PER 2010 CBC, 1916A-7 : TENSION TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO OSHPD

- (a) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, DIRECT PULL TENSION TEST AT LEAST 50% OF THE ANCHORS.
- (b) ACCEPTANCE CRITERIA: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE TEST LOAD. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER BECOMES LOOSE.
- (c) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.



TYPICAL CONCRETE EDGE DETAIL



A P P R O V E D
Fixed Equipment Anchorage
Office of Statewide Health Planning and Development

OPA-2689-10

Pre-approval Program Manager:
Anthony R. Pike
(916) 440-8470

P E N D I N G

Reviewed By: Anthony R. Pike

24644



Office of Statewide Health Planning and Development
ANCHORAGE PRE-APPROVAL

OPA-2689-10

Equipment Manufacturer: Steris Corporation

Equipment Type: Vision 1321/1327

GENERAL NOTES (CONTINUED)

- 3. FORCES PER ASCE 7-05 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE $S_{Ds} = 2.00$, $a_p = 2.5$, $I_p = 1.5$ & $R_p = 6.0$
- 4. THIS PRE-APPROVAL CONFORMS TO THE 2010 CALIFORNIA BUILDING CODE.
- 5. THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY LOCATION IN THE STATE OF CALIFORNIA.
THE ELEVATED FLOOR DETAILS MAY BE USED AT ANY HEIGHT IN A BUILDING.
- 6. ALL ANCHOR FORCES SHOWN ON THE DRAWINGS ARE STRENGTH LEVEL LOADS AND MAY BE USED FOR STRENGTH DESIGN.
- 7. THIS PRE-APPROVAL COVERS THE ANCHORAGE OF THE UNIT ONLY.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD

- 8. VERIFY THAT THE CONCRETE SLAB WHICH THE EQUIPMENT IS ANCHORED TO MEETS THE REQUIREMENTS OF THE APPLICABLE ICC ESR.
- 9. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS (SEE TYPICAL DETAIL ON SHEET 1).
- 10. VERIFY THAT ALL NEW OR EXISTING ANCHORS ARE AN ADEQUATE DISTANCE FROM THE ANCHORS SHOWN IN THIS PRE-APPROVAL.
IN NO CASE SHALL THIS UNIT'S ANCHORS BE WITHIN THE GREATER OF $3x$ EDGE DISTANCE SHOWN ON TYPICAL CONCRETE EDGE DETAIL (SHEET 1) OR 3 (hef) FROM ANY NEW OR EXISTING ANCHORS.
- 11. DESIGN BACKING BARS, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS.
THE SEOR SHALL ALSO VERIFY THE ADEQUACY OF THE STRUCTURES (SUCH AS WALLS AND FLOORS) WHICH SUPPORT THE UNITS FOR THE LOADS IMPOSED ON THEM BY THE UNITS AS WELL AS ALL OTHER LOADS.
- 12. PROVIDE ANY SUPPORTING STRUCTURE REQUIRED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
- 13. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2010 CBC AND WITH THE DETAILS SHOWN IN THIS PRE-APPROVAL.
VERIFY THAT THE ACTUAL EQUIPMENT'S WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.



A P P R O V E D
Fixed Equipment Anchorage
Office of Statewide Health Planning and Development



OPA-2689-10
Pre-approval Program Manager:
Anthony R. Pike
(916) 440-8470

P E N D I N G

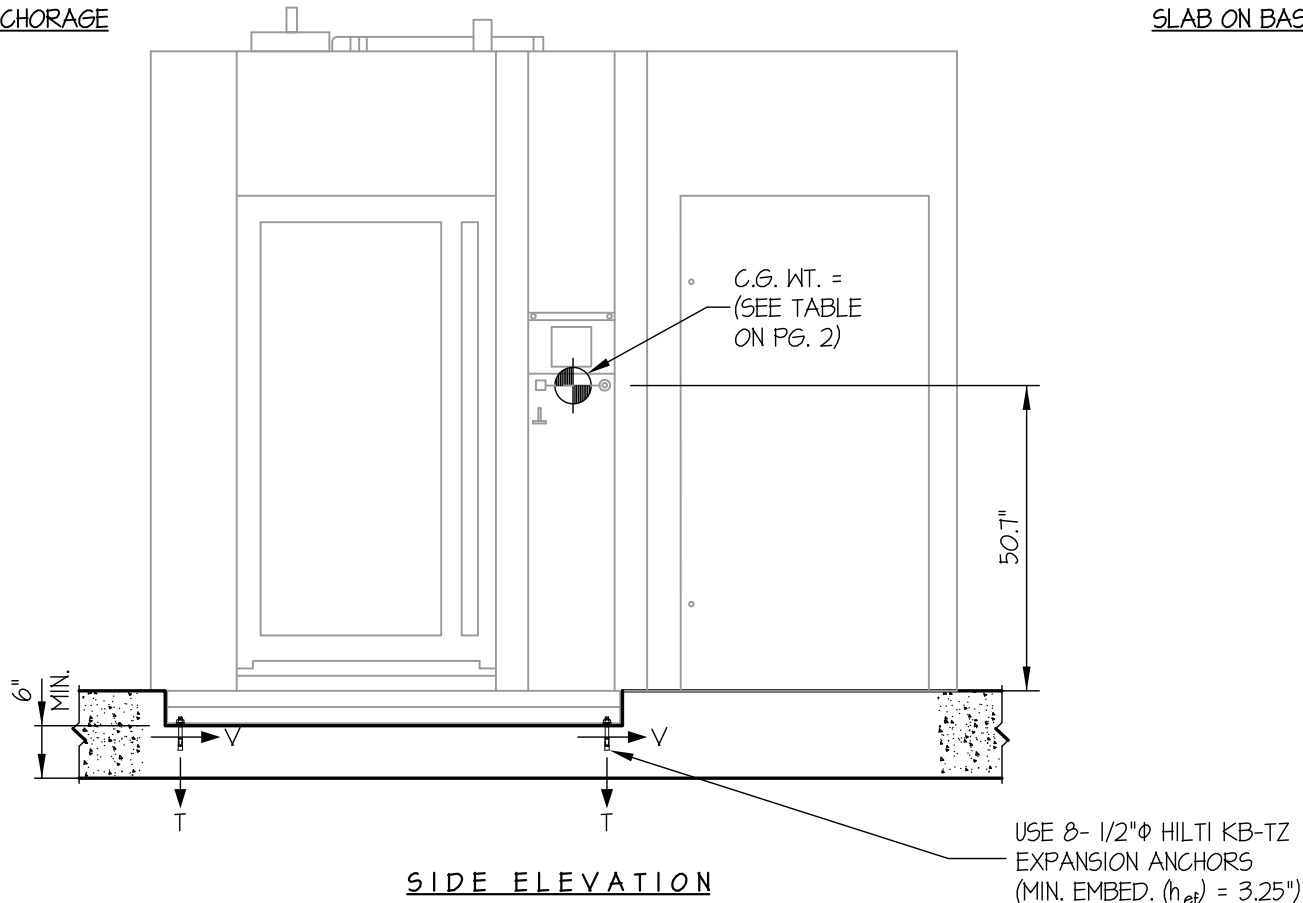
Reviewed By: Anthony R. Pike

24644

EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.equipmentanchorage.com	DES. J. ROBERSON	SHEET 3
	JOB NO. 14-1102	OF 4 SHEETS
	DATE 6/1/11	
STERIS CORPORATION VISION 1321/1327		

SEISMIC ANCHORAGE

SLAB ON BASE



NOTES:

1. ANCHORAGE DESIGN PER 2010 CALIFORNIA BUILDING CODE - SECTION 1613A AND ASCE 7-08 SECTIONS 12 AND 13. STRENGTH DESIGN IS USED.
 HORIZONTAL FORCE (E_h) = $0.90 W_p (S_{DS} = 2.00, I_p = 1.5, a_p = 2.5, R_p = 6.0)$
 VERTICAL FORCE (E_v) = $0.40 W_p$
2. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
3. ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
4. SEE GENERAL NOTES: SHEETS 1-2

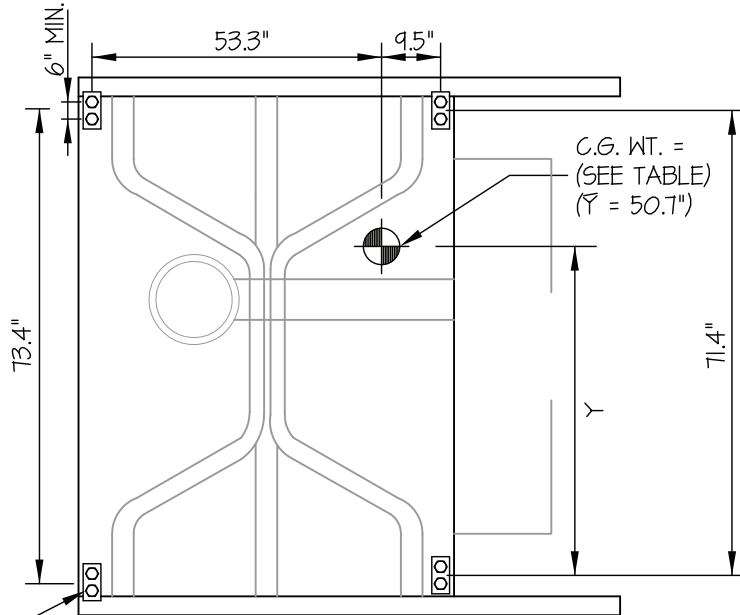


A P P R O V E D Fixed Equipment Anchorage Office of Statewide Health Planning and Development	
	OPA-2689-10 Pre-approval Program Manager: Anthony R. Pike (916) 440-8470
P E N D I N G	
Reviewed By: Anthony R. Pike	
24644	

EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.equipmentanchorage.com	STERIS CORPORATION	DES. J. ROBERSON	SHEET 4
	VISION 1321/1327	JOB NO. 14-1102	OF 4 SHEETS
		DATE 6/1/11	

SEISMIC ANCHORAGE

SLAB ON BASE



USE 8- 1/2"φ HILTI KB-TZ EXPANSION ANCHORS (MIN. EMBED. (h_{ef}) = 3.25")

PLAN AT BASE

MODEL	WEIGHT (LBS)	Y (in.)	T _{MAX} (LBS)	V _{MAX} (LBS)
VISION 1327	6662	53.35	1717	1272
VISION 1321	6468	43.35	1372	1235



A P P R O V E D Fixed Equipment Anchorage Office of Statewide Health Planning and Development	
	OPA-2689-10 Pre-approval Program Manager: Anthony R. Pike (916) 440-8470
P E N D I N G	
Reviewed By: Anthony R. Pike	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 24644 </div>	



Cut Sheet Summary

GBA Id **28657**

Item **Clean Up Counter, 2 Sink**

Manufacturer **Steris**

Model **CCPS317735AH**

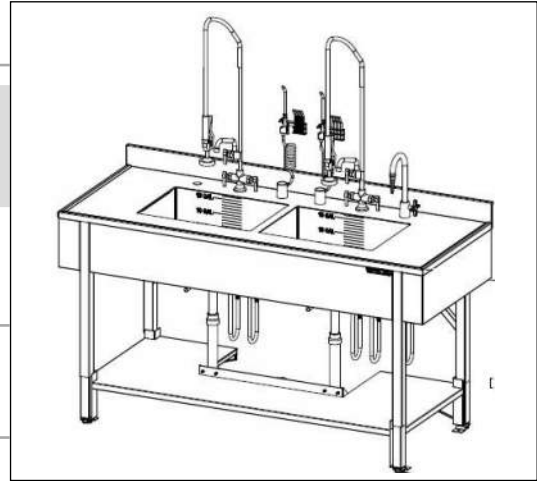


Image shown may vary in color or finish from actual item to be purchased.

Physical	Electrical	Plumbing/Mechanical	Responsibilities
Height ("):	42.00	<input type="checkbox"/> Medical Gas	Furnished by: Owner
Width ("):	77.00	<input checked="" type="checkbox"/> Compressed Air	New Install: Contractor
Depth ("):	31.00	<input type="checkbox"/> External Exhaust	Existing Install: N/A
Weight (lb):	395	<input type="checkbox"/> Ventilation	Deinstall/Move: N/A
Operating Wt (lb):		<input type="checkbox"/> Building Steam	<input checked="" type="checkbox"/> Contractor Rough-In
Installation / Placement			
Placement:		<input type="checkbox"/> Integral Steam Generator	Notes
Freestanding		<input checked="" type="checkbox"/> Cold Water	
<input type="checkbox"/> Component System		<input checked="" type="checkbox"/> Hot Water	<input checked="" type="checkbox"/> Critical Path Item
Seismic Anchorage			
Type:		<input checked="" type="checkbox"/> Treated Water	<input type="checkbox"/> Refer to Vendor Dwg
Pre-apprvl #:		<input checked="" type="checkbox"/> Drain	<input checked="" type="checkbox"/> See Mfgr Cut Sheets
		BTUs/Hr:	<input checked="" type="checkbox"/> Dimensions may be rounded; see vendor sheets
			N/A Responsibilities = No Qty (New /Existing)

Comments:

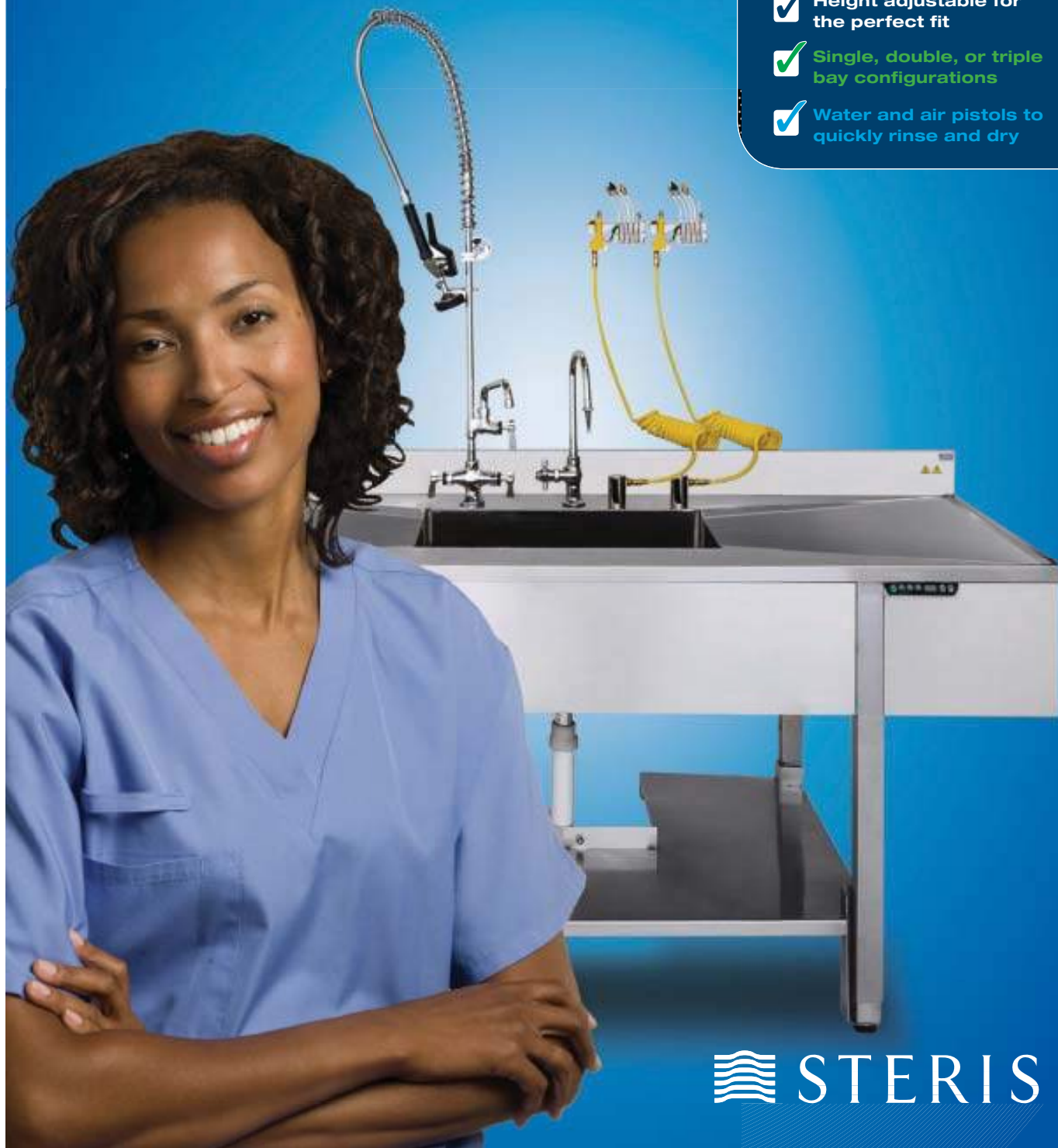
The information provided on this summary sheet is based on the data contained on the manufacturer cut sheet(s) that follow. It is the responsibility of the recipient to review the manufacturer's cut sheets for complete information. All specifications included in this document are subject to change without notice by the manufacturer.



Designed with You in Mind

SPD Accessories: Clean-Up Sinks

- ✓ Height adjustable for the perfect fit
- ✓ Single, double, or triple bay configurations
- ✓ Water and air pistols to quickly rinse and dry



 **STERIS**

Enhance your manual cleaning process with STERIS Clean-Up Sinks. Designed with workflow and ergonomics in mind, STERIS sinks include the accessories that simplify the manual cleaning process and streamline workflow.

Options to Fit Your Needs:



- Single, double, or triple bay configurations



- Stationary or height adjustable for the perfect fit

Sinks come standard with:



- Hot and cold mounted deck pre-rinse that provide cleaning flexibility



- Reverse osmosis water faucets that meet manual cleaning standards



- Water and air pistols to quickly rinse and dry



- Etched gallon indicators to aid in accurate mixing of detergents and chemicals



Say goodbye to the variability and waste of manual dispensing with Acu-slnQ Enzymatic Dosing System. Its electronically controlled peristaltic pump dispenses the optimal amount of chemistry.

STERIS offers the most comprehensive and innovative solutions in the industry. From the surgical floor to sterile processing and the G.I. suite, we focus on creating environments that provide the best information, quality and productivity to help achieve complete alignment between your SPD and OR.

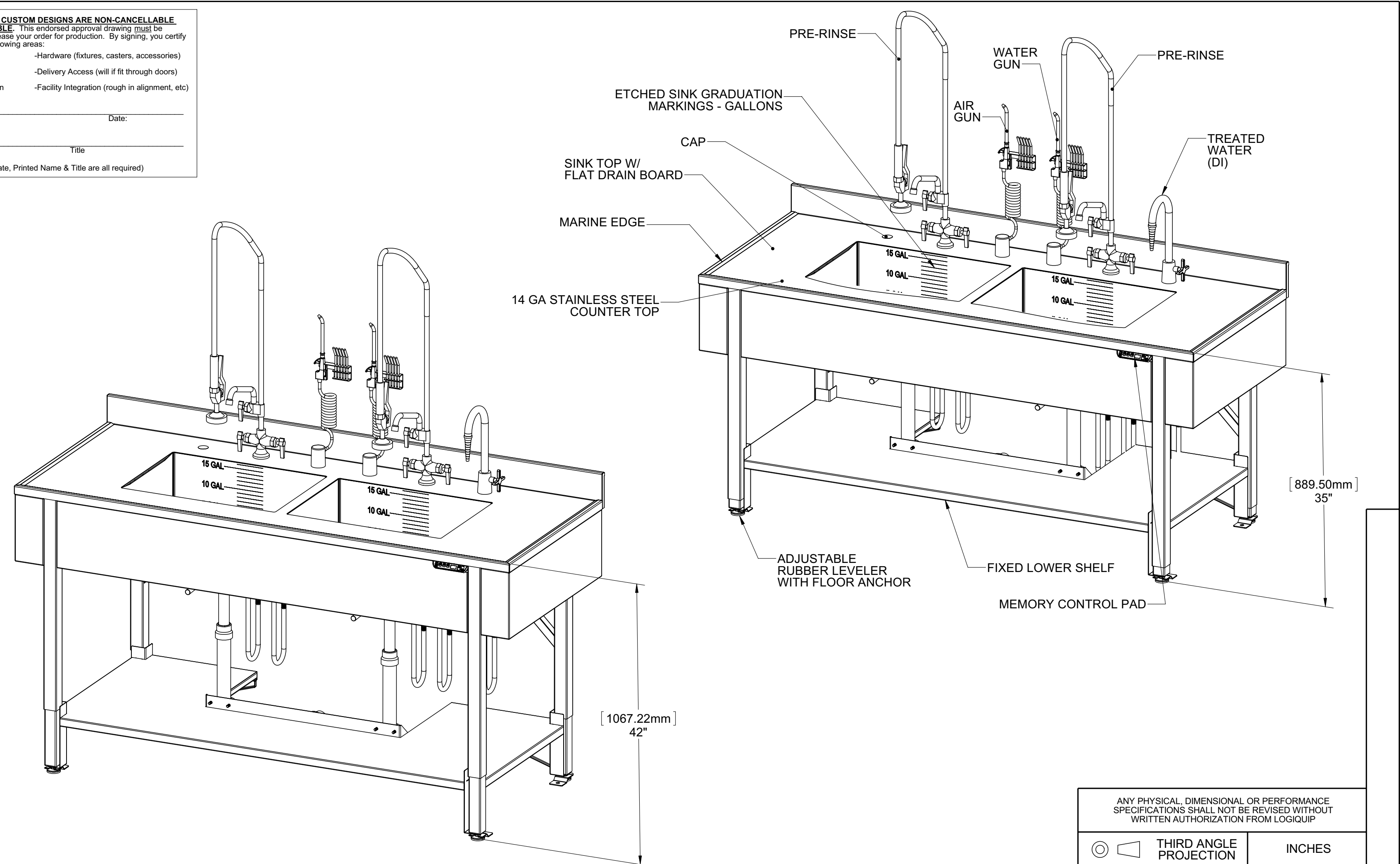


STERIS Corporation
5960 Heisley Road
Mentor, OH 44060-1834 ■ USA
440-354-2600 ■ 800-548-4873
www.steris.com

Design Approval- ALL CUSTOM DESIGNS ARE NON-CANCELLABLE AND NON-RETURNABLE. This endorsed approval drawing must be received in order to release your order for production. By signing, you certify your approval in the following areas:

-Overall Dimensions -Hardware (fixtures, casters, accessories)
 -Material -Delivery Access (will it fit through doors)
 -Construction and Design -Facility Integration (rough in alignment, etc)

Approval Signature _____ Date: _____
 Print Name and Title _____
 (Signature, Date, Printed Name & Title are all required)



- NOTES:
- 1) PRE-RINSE FAUCET: (KN50-1000-AF2) GOOSE NECK WITH BUILT IN PRE-RINSE INLET - 1/2" NPSM MALE WITH COMPRESSION FITTINGS OPERATING PRESSURE 20-125 PSI OPERATING TEMP RANGE 40-180 DEG. F
 - 2) UTILITY REQUIREMENT COLD WATER - 20 TO 50 PSIG 70 DEG. F MAX HOT WATER - 20 TO 50 PSIG 120 DEG. F TO 140 DEG. F
 - 3) SINK DRAIN: SINK OPENING DIA.: 3-1/2" NPS: 1-1/2" FACE FLANGE DIA.: 4-1/2"
 - 4) AIR GUN WITH STANDARD 5 TIP GUN & HOSE MCMaster 3321K3 & 54635K1
 - 5) AIR INLET: WATER SAVER BI131 WITH BI136-02-08R
 - 6) 300 SERIES STAINLESS STEEL
 - 7) WELDED CONSTRUCTION
 - 8) LINEAR UNIT : CONSISTING OF CYLINDER AND A LINEAR GUIDE. LOAD MAX 1.500 N PER CYLINDER LIFT LENGTH UP TO 300 MM (11.82")
 - 9) PUMP: MAX LOAD: 1.000 KG MAXIMUM LIFT SPEED WITH ELECTRIC MOTOR 30 MM/S (1.18"/S)
 - 10) ELECTRIC DRIVE: SYSTEM VOLTAGE: 230/110 VAC ENGINE VOLTAGE: 29 VDC NOMINAL RATING APPROX: 140VA NOMINAL SPEED 120 MIN-1 OVERLOAD PROTECTION

REV.	DESCRIPTION	CHANGED BY:	DATE
REVISIONS			

ANY PHYSICAL, DIMENSIONAL OR PERFORMANCE SPECIFICATIONS SHALL NOT BE REVISED WITHOUT WRITTEN AUTHORIZATION FROM LOGIQUIP

THIRD ANGLE PROJECTION INCHES

CRITICAL TO QUALITY Weight (pounds)
 394.50

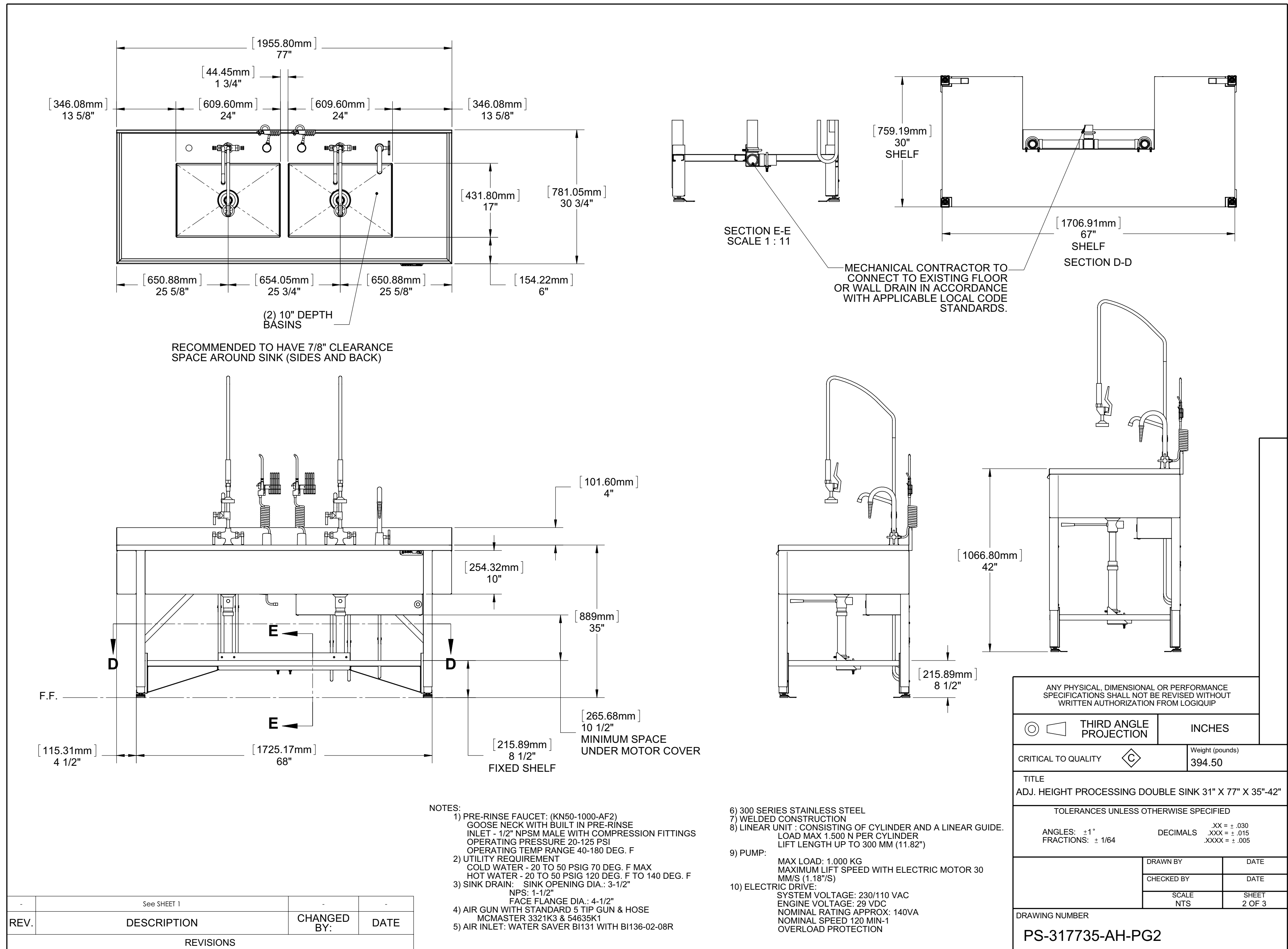
TITLE
 ADJ. HEIGHT PROCESSING DOUBLE SINK 31" X 77" X 35"-42"

TOLERANCES UNLESS OTHERWISE SPECIFIED

ANGLES: +1" DECIMALS .XX = ± .030
 FRACTIONS: ± 1/64 .XXX = ± .015
 .XXXX = ± .005

DRAWN BY	DATE
CHECKED BY	DATE
SCALE NTS	SHEET 1 OF 3

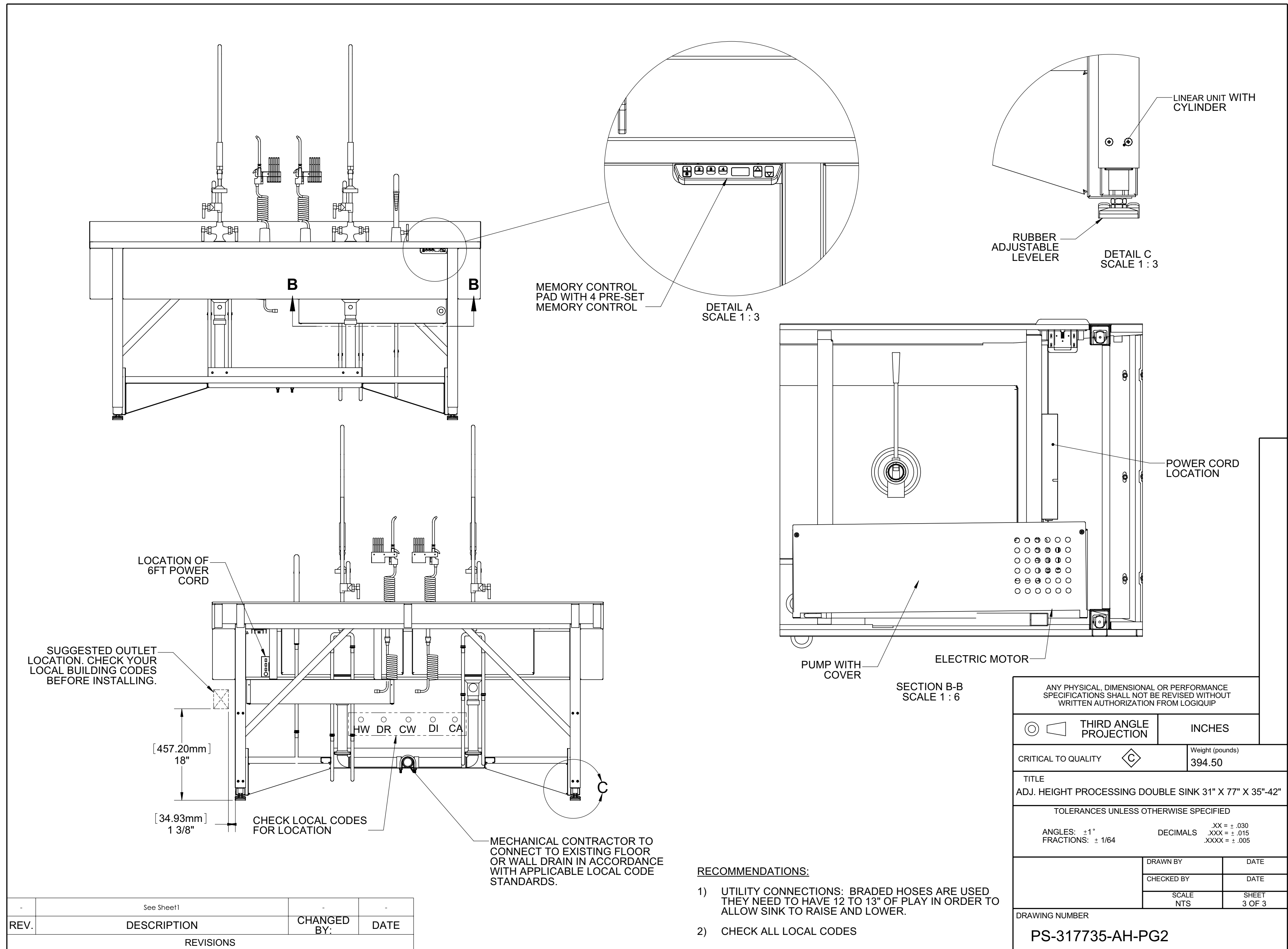
DRAWING NUMBER
PS-317735-AH-PG2



- NOTES:
- 1) PRE-RINSE FAUCET: (KN50-1000-AF2)
GOOSE NECK WITH BUILT IN PRE-RINSE
INLET - 1/2" NPSM MALE WITH COMPRESSION FITTINGS
OPERATING PRESSURE 20-125 PSI
OPERATING TEMP RANGE 40-180 DEG. F
 - 2) UTILITY REQUIREMENT
COLD WATER - 20 TO 50 PSIG 70 DEG. F MAX
HOT WATER - 20 TO 50 PSIG 120 DEG. F TO 140 DEG. F
 - 3) SINK DRAIN: SINK OPENING DIA.: 3-1/2"
NPS: 1-1/2"
FACE FLANGE DIA.: 4-1/2"
 - 4) AIR GUN WITH STANDARD 5 TIP GUN & HOSE
MCMaster 3321K3 & 54635K1
 - 5) AIR INLET: WATER SAVER B1131 WITH B1136-02-08R
 - 6) 300 SERIES STAINLESS STEEL
 - 7) WELDED CONSTRUCTION
 - 8) LINEAR UNIT : CONSISTING OF CYLINDER AND A LINEAR GUIDE.
LOAD MAX 1,500 N PER CYLINDER
LIFT LENGTH UP TO 300 MM (11.82")
 - 9) PUMP:
MAX LOAD: 1,000 KG
MAXIMUM LIFT SPEED WITH ELECTRIC MOTOR 30 MM/S (1.18"/S)
 - 10) ELECTRIC DRIVE:
SYSTEM VOLTAGE: 230/110 VAC
ENGINE VOLTAGE: 29 VDC
NOMINAL RATING APPROX: 140VA
NOMINAL SPEED 120 MIN-1
OVERLOAD PROTECTION

ANY PHYSICAL, DIMENSIONAL OR PERFORMANCE SPECIFICATIONS SHALL NOT BE REVISED WITHOUT WRITTEN AUTHORIZATION FROM LOGIQUIP	
THIRD ANGLE PROJECTION	INCHES
CRITICAL TO QUALITY	Weight (pounds) 394.50
TITLE ADJ. HEIGHT PROCESSING DOUBLE SINK 31" X 77" X 35"-42"	
TOLERANCES UNLESS OTHERWISE SPECIFIED	
ANGLES: +1°	DECIMALS .XX = ± .030 .XXX = ± .015 .XXXX = ± .005
FRACTIONS: ± 1/64	
DRAWN BY	DATE
CHECKED BY	DATE
SCALE NTS	SHEET 2 OF 3
DRAWING NUMBER PS-317735-AH-PG2	

See SHEET 1			
REV.	DESCRIPTION	CHANGED BY:	DATE
REVISIONS			



-	See Sheet1	-	-
REV.	DESCRIPTION	CHANGED BY:	DATE
REVISIONS			

- RECOMMENDATIONS:**
- 1) UTILITY CONNECTIONS: BRADED HOSES ARE USED THEY NEED TO HAVE 12 TO 13" OF PLAY IN ORDER TO ALLOW SINK TO RAISE AND LOWER.
 - 2) CHECK ALL LOCAL CODES

ANY PHYSICAL, DIMENSIONAL OR PERFORMANCE SPECIFICATIONS SHALL NOT BE REVISED WITHOUT WRITTEN AUTHORIZATION FROM LOGIQUIP	
THIRD ANGLE PROJECTION	INCHES
CRITICAL TO QUALITY	Weight (pounds) 394.50
TITLE ADJ. HEIGHT PROCESSING DOUBLE SINK 31" X 77" X 35"-42"	
TOLERANCES UNLESS OTHERWISE SPECIFIED	
ANGLES: +1"	DECIMALS .XX = ± .030 .XXX = ± .015 .XXXX = ± .005
FRACTIONS: ± 1/64	
DRAWN BY	DATE
CHECKED BY	DATE
SCALE NTS	SHEET 3 OF 3
DRAWING NUMBER PS-317735-AH-PG2	

Cut Sheet Summary

GBA Id **3376-1**

Item

Compressor, Air, Rotary Scroll

Manufacturer

Steris

Model

STS 050142

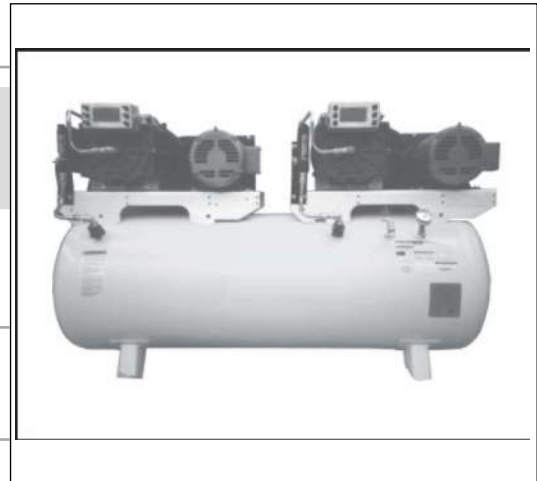


Image shown may vary in color or finish from actual item to be purchased.

Physical	Electrical	Plumbing/Mechanical	Responsibilities
Height ("): 35	<input type="checkbox"/> Multiple Elec Reqs	<input type="checkbox"/> Medical Gas	Furnished by: Owner
Width ("): 40	Voltage: 208	<input type="checkbox"/> Compressed Air	New Install: Vendor
Depth ("): 24	Hertz: 60	<input type="checkbox"/> External Exhaust	Existing Install: N/A
Weight (lb): 260	Phase: 3	<input type="checkbox"/> Ventilation	Deinstall/Move: N/A
Operating Wt (lb):	Amps: 14	<input type="checkbox"/> Building Steam	<input checked="" type="checkbox"/> Contractor Rough-In
	Watts:	<input type="checkbox"/> Integral Steam Generator	
	Volt Amps:	<input type="checkbox"/> Cold Water	
	Breaker Size:	<input type="checkbox"/> Hot Water	
	<input checked="" type="checkbox"/> Dedicated	<input type="checkbox"/> Treated Water	
	<input checked="" type="checkbox"/> Emergency	<input type="checkbox"/> Drain	
	<input type="checkbox"/> Hard-wired	BTUs/Hr:	
	<input checked="" type="checkbox"/> Power Cord		
	NEMA:		
	Network		
	Connection:		
	<input type="checkbox"/> Analog Phone Line		
	<input type="checkbox"/> Remote Alarm		
Installation / Placement			Notes
Freestanding			<input checked="" type="checkbox"/> Critical Path Item
<input type="checkbox"/> Component System			<input type="checkbox"/> Refer to Vendor Dwg
Seismic Anchorage			<input checked="" type="checkbox"/> See Mfgr Cut Sheets
Type: Vendor Installed Connection			<input checked="" type="checkbox"/> Dimensions may be rounded; see vendor sheets
Pre-apprvl #:			

Comments:

Weight - 260 lbs
Per Steris rep, no OPA for Rotary Scroll Air Compressor.

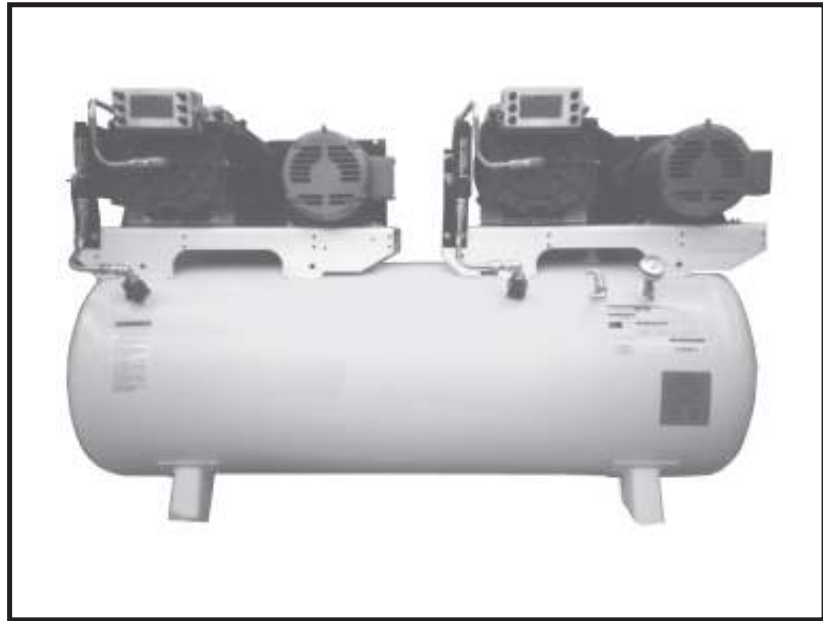
The information provided on this summary sheet is based on the data contained on the manufacturer cut sheet(s) that follow. It is the responsibility of the recipient to review the manufacturer's cut sheets for complete information. All specifications included in this document are subject to change without notice by the manufacturer.



ROTARY SCROLL AIR COMPRESSOR

APPLICATION

The Rotary Scroll Air Compressor is designed for supplying compressed air for the following equipment: Amsco® Eagle® 3017 EO Sterilizer; Reliance® 130/130L Cart and Utensil Washer/Disinfector; Basil® 9500 Cage and Rack Washer; Reliance® 400 Single-Chamber Glassware Washer; Reliance® 444 Single-Chamber Washer/Disinfector; Reliance® 450 Laboratory Glassware Washer; Reliance® 500 Laboratory Glassware Washer; Reliance® Synergy™ Washer/Disinfector; Reliance® 777 Automated Multi-Chamber Washer/Disinfector; Reliance® Load/Unload Module; and Reliance® ATS Automated Transport System.



(Typical only - some details may vary.)

DESCRIPTION

The rotary scroll oilless air compressor consists of electric motor(s), orbiting scroll air end assembly(ies), air-cooled aftercooler(s), receiving tank and electrical control panel.

Its dynamically balanced air end ensures vibration-free operation. The rotary design permits a continuous 100% duty cycle. No oil separation, oil filtration, or inlet valves are required.

The tank-mounted, single-stage, air-cooled, rotary scroll oilless compressor is driven by an electric motor. It is rated for continuous-duty operation, and the output is oil-free air at a discharge pressure of 93-115 psig (641-793 kPa).

Rotary scroll air compressors are available in 12 standard models (refer to the selections below).

STANDARDS

Each compressor meets the applicable requirements of the following standards and carries the appropriate symbols:

- **Underwriters Laboratories (UL) Standard 508**
- **Canadian Standards Association (CSA) Standard CUL 508A**
- **ANSI/ASME and CRN** approved receiving tank rated for 200 psi working pressure.

The Selections Checked Below Apply To This Equipment
 (Select HP size per total system air CFM requirements obtained from
 Equipment Air Supply Requirements table and Engineering Data table on page 4.)

VOLTAGE

- 208 Volts
- 3 HP, 60 Hz, 3-Phase
 - 5 HP, 60 Hz, 3-Phase
 - 5 HP, Duplex, 60 Hz, 3-Phase
- 230 Volts
- 3 HP, 60 Hz, 3-Phase
 - 3 HP, 60 Hz, 1-Phase
 - 5 HP, 60 Hz, 3-Phase
 - 5 HP, 60 Hz, 1-Phase
 - 5 HP, Duplex, 60 Hz, 3-Phase
 - 5 HP, Duplex, 60 Hz, 1-Phase
- 460 Volts
- 3 HP, 60 Hz, 3-Phase
 - 5 HP, 60 Hz, 3-Phase
 - 5 HP, Duplex, 60 Hz, 3-Phase

Item _____

Location(s) _____

SD644 (11/01/05)

3376-1

FEATURES

Transducer-type pressure control switch controls the start-up and shutdown of the compressor.

V-Belt driving system reduces starting torque, extending life of compressor motor.

High-temperature shutdown switch automatically turns off the compressor motor prior to overheating, preventing motor damage.

Motor overload protection guards the motor from high temperature operation.

Control transformer reduces line voltage to 200 volts for operation of the hour meter, cooling fan, circuit board and pressure switch.

Inlet air filter is 4 micron, dry type.

Magnetic motor starter is installed in a NEMA 1 enclosure inside control panel.

Self-lubricating tip seal eliminates oil and grease maintenance common to standard compressors.

Re-greasable bearings allow extended compressor life.

Air-cooled aftercooler efficiently cools the compressed discharge air.

Hour meter indicates actual number of hours unit has been in operation. It is also used to determine maintenance and service schedules.

Discharge air pressure gauge assists in monitoring compressor performance.

Check valve(s) and safety valves ensure pressure setting of at least 10 psi less than the maximum working pressure of the air receiver.

Motor(s), air end(s) and electrical control panel are mounted horizontally oriented to receiving tank.

Float-type automatic drain assembly continuously drains water from the air receiver tank.

Discharge air temperature is never greater than intake air temperature plus 55°F (13°C).

PRINCIPLE OF OPERATION

The compressor is based on the scroll compression theory. A scroll set, the basic scroll compression element, consists of two identical spirals that form right and left parts. One of these scroll components is phased 180° with respect to the other so the scrolls can mesh.

Crescent-shaped gas pockets are formed and bounded by the spirals and the base plate of both scrolls. As the moving scroll orbits the fixed scroll, the pockets formed by the meshed scrolls follow the spiral toward the center and diminish in size. The moving scroll cannot rotate during this process, maintaining the scrolls' 180° phase relationship.

The compressor's inlet is at the scrolls' outer boundary. The compressed gas discharges through the outlet at the center of the fixed scroll, eliminating the need for inlet valves.

CONSTRUCTION

Cast iron and anodized aluminum compressor system is mounted on a heavy-duty steel frame and air receiver tank.

PREVENTIVE MAINTENANCE

A global network of skilled service specialists can provide periodic inspections and adjustments to help assure low-cost peak performance. STERIS representatives can provide information regarding annual maintenance agreements.

IMPORTANT: This compressor is not equipped and should not be used as is to supply breathing quality air. For any application of air for human consumption, the air compressor/pump must be fitted with suitable in-line safety and alarm equipment. This additional equipment is necessary to properly filter and purify the air to meet minimal specifications for Grade D breathing.

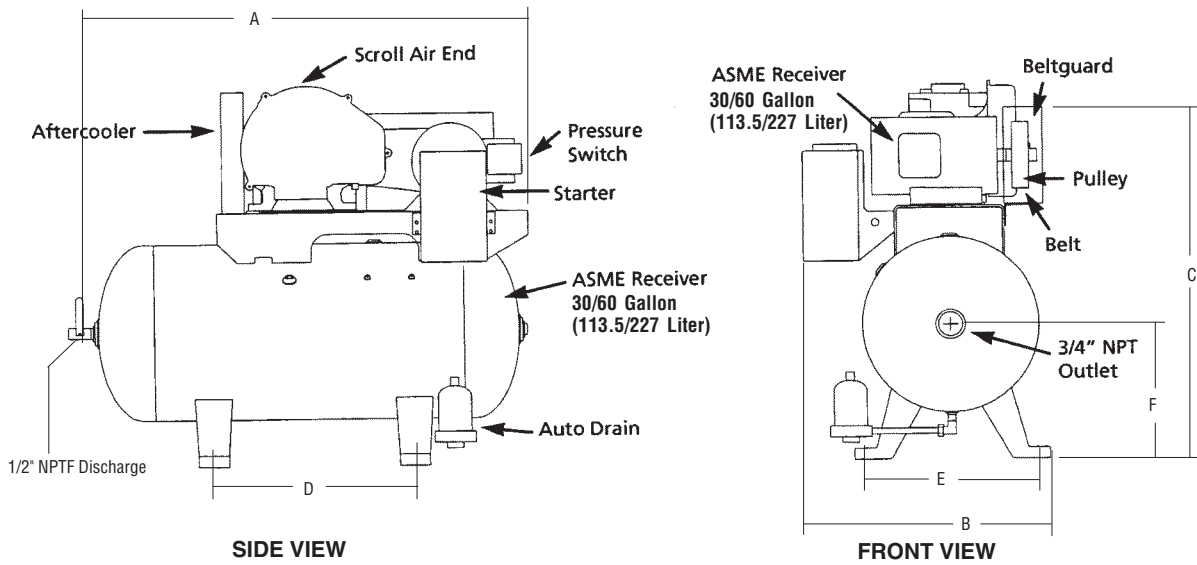
Disclaimer of warranties: in the event the compressor is used for the purpose of breathing air application and proper in-line safety and alarm equipment is not simultaneously used, existing warranties are voided, and STERIS disclaims any liability whatsoever for any loss, personal injury or damage.

STERIS Corporation,
Erie, Pennsylvania is an
ISO 13485 certified facility.

The base language of this document is ENGLISH. Any translations must be made from the base language document.

Dimensions shown here are typical, and subject to change without notice. REFER TO STERIS EQUIPMENT DRAWINGS FOR COMPLETE AND DETAILED INSTALLATION SPECIFICATIONS.

Rotary Scroll Air Compressor - STS Scroll Tankmount

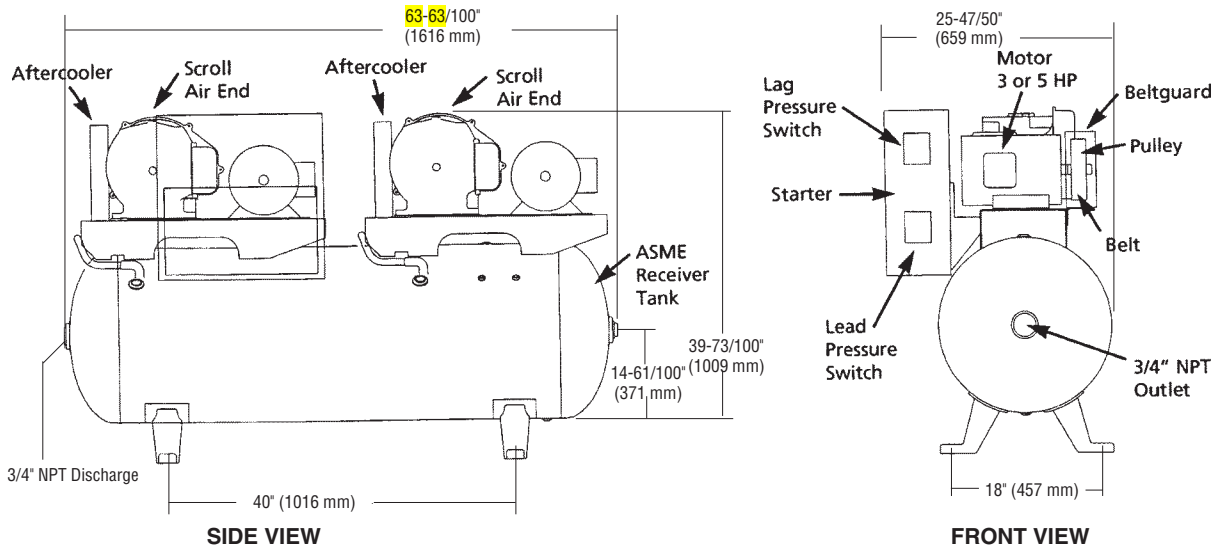


STS Scroll Tankmount Dimensions – inches (mm)

HP	A	B	C	D	E	F
3	39-1/2" (1003 mm)	23" (584 mm)	34-2/5" (874 mm)	18" (458 mm)	15-4/5" (401 mm)	12-3/10" (312 mm)
5	39-1/2" (1033 mm)	24" (610 mm)	34-4/5" (884 mm)	18" (458 mm)	15-4/5" (401 mm)	12-3/10" (312 mm)

NOTE: All dimensions are for reference only.

Rotary Scroll Air Compressor – STD Scroll Tankmount Duplex



NOTE: All dimensions for reference only; 80-gallon (303-liter) tank; Includes float-type automatic drain.

ENGINEERING DATA

VOLTS	HP	PHASE/ HZ	AMP RATING	MIN. CFM OUTPUT	TANK SIZE (GAL)	DISCHARGE OUTLET (NPTF)
208	3	3/60	8.4	7.7	30	1/2
	5	3/60	14	12.9	30	1/2
	5 Duplex*	3/60	14**	25.8	80	3/4
230	3	3/60	8.4	7.7	30	1/2
	3	1/60	17	7.7	30	1/2
	5	3/60	14	12.9	30	1/2
	5	1/60	28	12.9	30	1/2
	5 Duplex*	3/60	14**	25.8	80	3/4
	5 Duplex*	1/60	28**	25.8	80	3/4
460	3	3/60	4.2	7.7	30	1/2
	5	3/60	7	12.9	30	1/2
	5 Duplex*	3/60	7**	25.8	80	3/4

* Duplex units have two identical motors and air ends mounted on receiving tank.

** For each motor.

**CUSTOMER IS RESPONSIBLE FOR
COMPLIANCE WITH APPLICABLE LOCAL AND
NATIONAL CODES AND REGULATIONS.**

CFM Requirements

Amsco Eagle 3017 EO Sterilizer	7 CFM/each unit
Reliance 130/130L Cart and Utensil Washer/Disinfector	6 CFM/each unit
Basil 9500 Cage and Rack Washer	6 CFM/each unit
Reliance 400 Single-Chamber Glassware Washer	1 CFM/each unit
Reliance 444 Single-Chamber Washer/Disinfector	1 CFM/each unit
Reliance 450 Laboratory Glassware Washer	1 CFM/each unit
Reliance 500 Laboratory Glassware Washer	1 CFM/each unit
Reliance Synergy Washer/Disinfector	1 CFM/each unit
Reliance 777 Automated Multi-Chamber Washer/Disinfector	20.2 CFM/each unit
Reliance Load/Unload Module	1 CFM/each set
Reliance ATS Automated Transport System	1 CFM/each module with gates, pushers or pullers

Total air consumption for multiple pieces of equipment should not exceed 10% of the compressor CFM capacity. If the compressors capacity is greatly exceeded the equipment may not perform to specification should all connected equipment have air demand simultaneously. The following are examples on how to use Engineering Data table and Equipment Air Supply Requirements table to select the proper size compressor.

Example 1: A facility has four Synergy Washers and five ATS modules with powered gates/pushers/pullers. The air requirements are 1 x 4 CFM for the washers and 1 x 5 CFM for the ATS modules; a total of 9 CFM. The 3 HP 7.7 CFM compressor would be marginal in this application since the total demand could exceed 10% of the compressor capacity; the next size up 5 HP compressor with an output of 12.9 CFM would be more desirable.

Example 2: A facility has two 130 Cart Washers and four 3017 sterilizers. The air requirements are 2 x 6 CFM for the cart washers and 4 x 7 CFM for the sterilizers; a total of 40 CFM. Two compressors would be required for this application. Use one 5 HP Duplex 25.8 CFM compressor for the 3017 sterilizers; total of 28 CFM is still within 10% of 25.8 CFM compressor capacity. Use one 5 HP 12.9 CFM compressor for the cart washers; total of 12 CFM is below rated compressor capacity.

For further information, please contact:



STERIS Corporation
5960 Heisley Road
Mentor, OH 44060-1834 • USA
440-354-2600 • 800-548-4873
www.steris.com

MANUFACTURER : POWEREX™

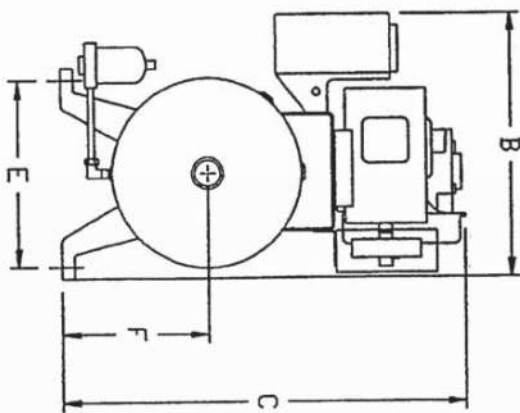
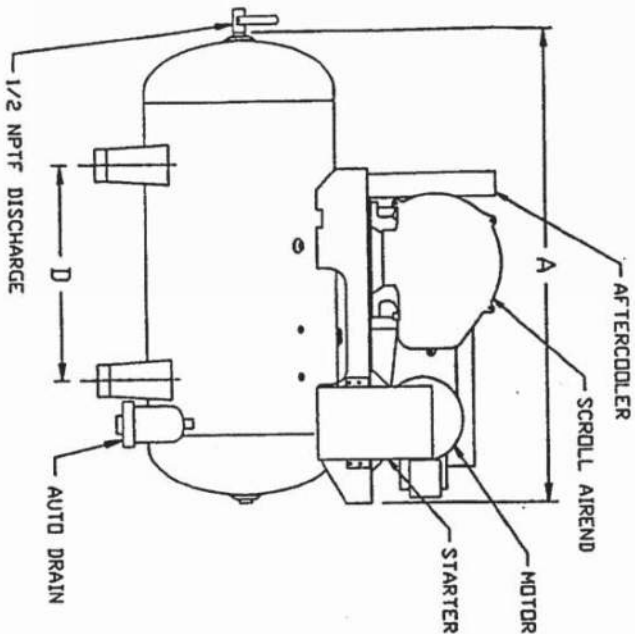
TITLE: ROTARY SCROLL AIR COMPRESSOR 129353-714/725		REV 00	DATE 06-20-96
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Part Number	Horse-Power	Voltage	Phase /Hz	Amp Rating	Min. CFM Output (100 psi)	Tank Size (Gal.)	Model Number
129353-714	3	208	3/60	8.4	7.7	30	STS 030132 - 208
129353-715	3	230	3/60	8.4	7.7	30	STS 030132 - 230
129353-716	3	460	3/60	4.2	7.7	30	STS 030142
129353-717	3	230	1/60	17	7.7	30	STS 130162
129353-718	5	208	3/60	14	12.9	30	STS 050132 - 208
129353-719	5	230	3/60	14	12.9	30	STS 050132 - 230
129353-720	5	460	3/60	7	12.9	30	STS 050142
129353-721	5	230	1/60	28	12.9	30	STS 151162
129353-722	5 Duplex*	208	3/60	14**	25.8	80	STD 050332 - 208
129353-723	5 Duplex*	230	3/60	14**	25.8	80	STD 050332 - 230
129353-724	5 Duplex*	460	3/60	7**	25.8	80	STD 050342
129353-725	5 Duplex*	230	1/60	28**	25.8	80	STD 151362

* Duplex units have (2) identical motors and airends mounted on receiving tank. See sheet 3 of 3.
 ** For each motor

TITLE: ROTARY SCROLL AIR COMPRESSOR				SHEET 1 OF 3			
DWG. NO. 129353-714/725				DATE			
BY		DWN		CKD		ENG	
7/7/97		7/7/97		7-22-97		7/7/97	
DATE		DATE		DATE		DATE	
7/7/97		7/7/97		7/7/97		7/22/97	

TITLE: ROTARY SCROLL AIR COMPRESSOR 129353-714/725	
REV	DATE
00	06-20-96

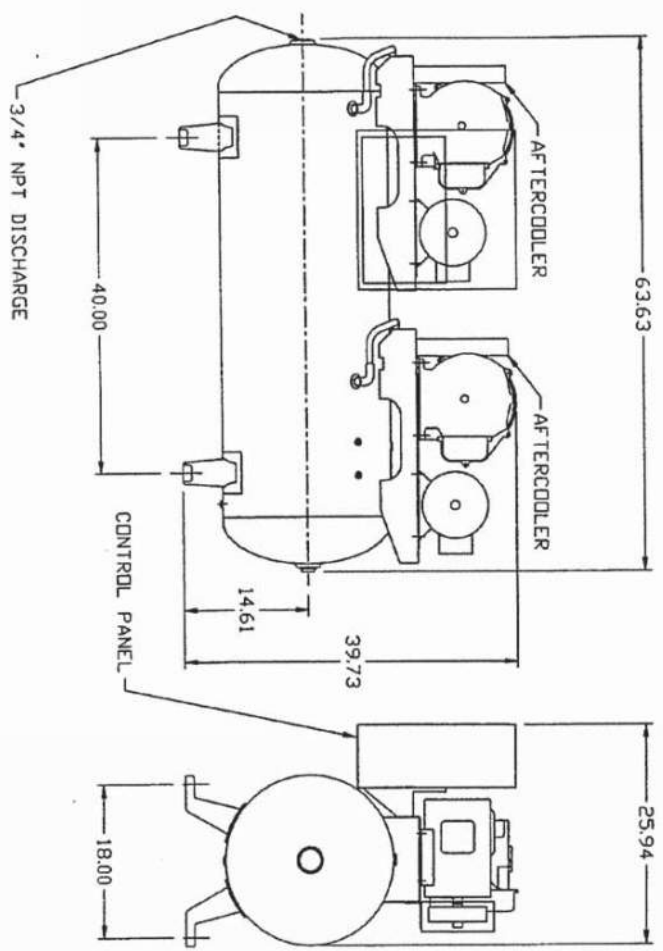


DIMENSIONAL DATA - IN INCHES						
HP	A	B	C	D	E	F
3	39.5	23.0	34.4	18.0	15.8	12.3
5	39.5	24.0	34.8	18.0	15.8	12.3

NOTE: ALL DIMENSIONS ARE FOR REFERENCE ONLY.

TITLE: ROTARY SCROLL AIR COMPRESSOR					
DWG. NO. 129353-714/725 SHEET 2 OF 3					
BY	DWN	CKD	ENG	MFG	DATE
	<i>RES</i>	<i>TT</i>	<i>RES</i>	<i>DTG</i>	
	<i>7/7/97</i>	<i>7-22-97</i>	<i>7/7/97</i>	<i>7/22/97</i>	

TITLE: ROTARY SCROLL AIR COMPRESSOR 129353-714/725	
REV	DATE
00	06-20-96



- NOTES:
1. ALL DIMENSIONS ARE IN INCHES
 2. ALL DIMENSIONS ARE FOR REFERENCE ONLY
 3. 80 GALLON TANK
 4. INCLUDES FLOAT TYPE AUTOMATIC DRAIN

TITLE: ROTARY SCROLL AIR COMPRESSOR				
DWG. NO. 129353-714/725 SHEET 3 OF 3				
BY	DWN	CKD	ENG	MFG
7/7/97	RES	TT	RES	DTG
DATE	7/7/97	7-22-97	7/7/97	7/22/97



Cut Sheet Summary

GBA Id **9485**

Item **Load/Unload Conveyor, Single, Automated**

Manufacturer **Steris**

Model **SCS-1L/SCS-1U**



Image shown may vary in color or finish from actual item to be purchased.

Physical	Electrical	Plumbing/Mechanical	Responsibilities
Height ("): 31.00	<input type="checkbox"/> Multiple Elec Reqs	<input type="checkbox"/> Medical Gas	Furnished by: Owner
Width ("): 32.00	Voltage: 120	<input checked="" type="checkbox"/> Compressed Air	New Install: Med Equip Vendor
Depth ("): 32.00	Hertz: 60	<input type="checkbox"/> External Exhaust	Existing Install: N/A
Weight (lb): 94	Phase: 1	<input type="checkbox"/> Ventilation	Deinstall/Move: N/A
Operating Wt (lb): 229	Amps: 15	<input type="checkbox"/> Building Steam	<input checked="" type="checkbox"/> Contractor Rough-In
	Watts:	<input type="checkbox"/> Integral Steam Generator	
	Volt Amps:	<input type="checkbox"/> Cold Water	
Installation / Placement	Breaker Size:	<input type="checkbox"/> Hot Water	Notes
Placement: Freestanding	<input checked="" type="checkbox"/> Dedicated	<input type="checkbox"/> Treated Water	<input checked="" type="checkbox"/> Critical Path Item
<input type="checkbox"/> Component System	<input checked="" type="checkbox"/> Emergency	<input checked="" type="checkbox"/> Drain	<input type="checkbox"/> Refer to Vendor Dwg
Seismic Anchorage	<input checked="" type="checkbox"/> Hard-wired <input type="checkbox"/> Power Cord	BTUs/Hr:	<input checked="" type="checkbox"/> See Mfgr Cut Sheets
Type: Floor	NEMA:		<input checked="" type="checkbox"/> Dimensions may be rounded; see vendor sheets
Pre-apprvl #: OPA-0547	Network Connection:		N/A Responsibilities = No Qty (New /Existing)
	<input type="checkbox"/> Cable TV		
	<input type="checkbox"/> Analog Phone Line		
	<input type="checkbox"/> Remote Alarm		

Comments:

The information provided on this summary sheet is based on the data contained on the manufacturer cut sheet(s) that follow. It is the responsibility of the recipient to review the manufacturer's cut sheets for complete information. All specifications included in this document are subject to change without notice by the manufacturer.

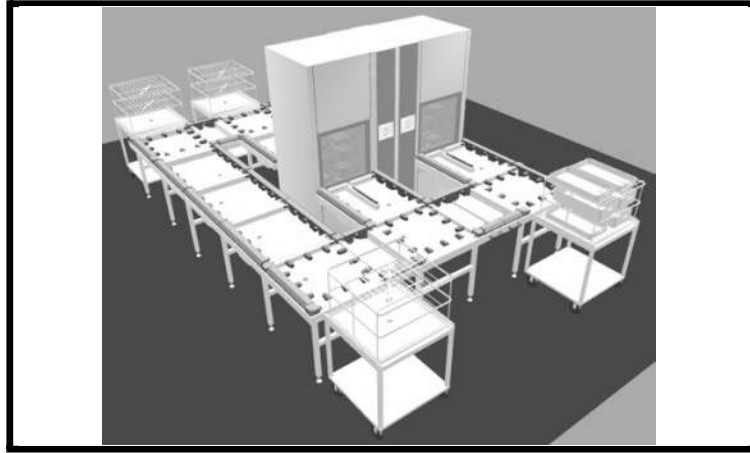




SCS CONVEYOR SYSTEM

APPLICATION

The SCS Conveyor System is a flexible, semi-automated (motorized and non-motorized conveyors) or fully automated, modular conveyor system intended to heighten facility productivity and efficiency. The conveyor system is designed to link compatible, multiple, single-chamber washers and/or multi-chamber washer/disinfectors in a closed loop system for hands-free handling of baskets and accessories used to process soiled reusable utensils, trays, glassware, bedpans and urinals, rubber and plastic goods, simple hard-surfaced rigid surgical instruments (such as forceps and clamps) and other similar and related articles found in healthcare and life sciences facilities.



(Typical only - some details may vary.)

The Selections Checked Below Apply To This Equipment

STANDARD LAYOUTS:

Load/Unload Configurations

- SCS-L-011 (Genfore, Synergy, 444, 450)
- SCS-L-013 (Genfore, Synergy, 444, 450)
- SCS-L-015 (Genfore, Synergy, 444, 450)
- SCS-L-017 (Genfore, Synergy, 444, 450)
- SCS-L-012 (Vision Single-Chamber)
- SCS-L-014 (Vision Single-Chamber)
- SCS-L-016 (Vision Single-Chamber)

Return Line Configurations

- SCS-L-001
- SCS-L-002
- SCS-L-003
- SCS-L-004
- SCS-L-006
- SCS-L-007

Semi-Automated Configurations

- SCS-L-005
- SCS-L-010
- SCS-L-008 (Use with 180° rotation)
- SCS-L-009 (Use with 180° rotation)

INDIVIDUAL CONVEYOR MODULES

- SCS-B
- SCS-2W
- SCS-FO
- SCS-2W-FO
- SCS-LE
- SCS-2W-LE
- SCS-E
- SCS-E-LG
- SCS-SE
- SCS-SE-LG

INDIVIDUAL CONVEYOR MODULES (Cont'd)

- SCS-BM
- SCS-M-FI
- SCS-M-FO
- SCS-M-RD
- SCS-FA-L
- SCS-FA-L-ULG

INDIVIDUAL CONVEYOR MODULES

- SCS-FA-L-DLG
- SCS-FA-L-2LG
- SCS-FA-R
- SCS-FA-R-ULG
- SCS-FA-R-DLG
- SCS-FA-R-2LG

ACCESSORIES*

- Legs with Anchorage
- Transfer Cart Adaptor
- Plastic Side Guide
- Connection Pack (Motorized Loading): To One Reliance 444, 450, Synergy, Genfore, Vision Single-Chamber or Multi-Chamber Unit
- Additional Plastic Side Guide for SCS-FA
- Drive Side Transfer Cart Adaptor for SCS-FA with GO Pushbutton
- GO Pushbutton for SCS-FA
- Transfer Cart Adaptor for Non-Motorized Side on SCS-FA with GO Pushbutton
- Connection Pack (Non-Motorized Loading): To One Reliance 444, 450, Synergy, Genfore, Vision Single-Chamber or Multi-Chamber Unit
- Connection Pack: To One Reliance/Hamo Vision Multi-Chamber Washer/Disinfecter

ACCESSORIES (Cont'd)*

- Seismic Anchorage Kit (SCS-07)
- Electric Power Supply
- Pressure Release Pushbutton for Reliance 444 or 450 Unit
- Drain Flexible Hose Connection Pack
- Connection Pack (Non-Motorized Loading and Non-Motorized Unloading): To One Reliance 444, 450 or Synergy Unit
- Connection Pack (Motorized Loading): To One Reliance/Hamo Vision Single-Chamber Washer/Disinfecter
- Connection Pack (Non-Motorized Loading): To One Reliance/Hamo Vision Single-Chamber Washer/Disinfecter
- Connection Pack (Non-Motorized Loading and Non-Motorized Unloading): To One Reliance/Hamo Vision Single-Chamber Washer/Disinfecter
- Recess Installation Pack for Motorized Return Door

* Refer to **Table 6** for description of accessories.

Item _____
Location(s) _____

DESCRIPTION

The SCS Conveyor System is designed to quietly (minimal operational sound level) load/unload 24 x 24" [610 x 610 mm] Amscomatic and Reliance® Series racks, and to interface with the following washers:

- Reliance® and Hamo® Genfore™ Washer/Disinfector
- Reliance® 444 Single-Chamber Washer/Disinfector (from S/N 3624500xxx)
- Reliance® 450 Glassware Washer (from S/N 3624502xxx)

NOTE: For Reliance 444 and Reliance 450 washers up to S/N 3624402xxx, call STERIS to verify if SCS Conveyor System can be made compatible.

- Reliance® and Hamo® Synergy® Washer Disinfector
- Reliance® and Hamo® Vision® Single-Chamber Washer/Disinfector
- Reliance® and Hamo® Vision® Multi-Chamber Washer/Disinfector (not compatible to Load/Unload conveyors)

The SCS Conveyor System also interfaces with the following transfer carts:

- FD24-300 (Reliance 444, 450, Synergy, Genfore and Vision Single-Chamber and Multi-Chamber)
- FD21-800 (Reliance 444, 450, Synergy, Genfore and Vision Single-Chamber and Multi-Chamber)
- FD61-700 (Universal Transfer Cart).

STANDARDS

This **SCS Conveyor System** meets the applicable requirements of the following standards, **as certified by UL:**

- Underwriters Laboratories (UL) Standard UL 61010-1 Second Edition
- Canadian Standards Association (CSA) CAN/CSA C22.2 No. 61010-1 Second Edition

Governing Directive for the affixing of the CE mark:

- Machinery Directive 2006/42/EC

Standards applied to demonstrate conformity to the directives:

- International Standard IEC 61010-1 Second Edition
- International Standard IEC 61326-1:2005

Conformity to other applicable directives:

- Electromagnetic Compatibility 2004/108/EC
- Low Voltage 2006/95/EC

SIZE (W x H x L)

All dimensions listed are for individual modules.

Overall dimensions:

- 31-3/4 x 31 x 31-3/4"
(806 x 787 x 806 mm)

Other dimensions (SCS-FA):

- FA-1LG
 - » 41-3/8 x 31 x 31-3/4"
(1041 x 787 x 806 mm)
- FA-2LG
 - » 51 x 31 x 31-3/4"
(1295 x 787 x 806 mm)

Normal height:

- 31" (787 mm) from the floor
- Height adjustment (range):
- 29 to 33" (737 to 838 mm)

FEATURES

NOTE: Expert STERIS Systems Planners must assist in designing a configuration to an existing or new system, focusing on the most efficient use of equipment and space.

Each conveyor type (see Table 1) is equipped with either free or motorized rollers. For motorized rollers, the drive mechanism is provided by a 65 W gear motor.

The conveyor frame is constructed of #304 stainless steel (No. 4 finish). The **Plastic Side Guides (SCS-03)** are made of 3/16" (5 mm) thick blue ABS plastic.

The pneumatic cylinders are used to push/pull racks in and out of the process chamber, or to index racks automatically from a SCS-FA. The pneumatic guides are used to stabilize racks on all sides during automated change of directions.

The proximity sensors automatically detect basket position and are designed to operate in a soiled/wet environment.

Drip pans, located under the conveyor surface, allow for rack drainage collection following the loading/unloading process. A drain opening (sized for 1-1/2" NPT female adaptor) is provided in the drip pan for connection to the facility drain line or fitted with a bottle to collect drainage.

An additional **Plastic Side Guide (SCS-03 or SCS-26)** is supplied to close a conveyor side if a Transfer Cart Adapter (**SCS-02 or SCS-29**, accessory) is not required.

A lift gate conveyor (SCS-E-LG or SCS-SE-LG) can be supplied and easily opened by the user to allow access to the other side of the conveyor layout loop (typically used with cabinet washers installed side-by-side). SCS-FA-ULG, SCS-FA-DLG and SCS-FA-2LG have built-in motorized lift gates.

A motorized return door (SCS-M-RD) can be supplied and easily opened by the user to allow access to the other side of the conveyor layout loop (typically used with cabinet washers installed side-by-side).

NOTE: The door is equipped with an obstruction sensor to detect any door obstruction. If an obstruction is present, door automatically opens.

SCS Conveyor Solutions (see Table 1) is a flexible, modular system that allows workflow designs to be created for efficient transport and ergonomic handling of racks. The solutions range from simple load/unload designs to fully automated conveyor designs.

SAFETY FEATURES

The SCS Conveyor System is equipped with one electrical power supply (mounted under conveyor frame) for each four powered conveyors. To de-energize conveyor layout, either turn power supplies to **OFF** and wait for green indicator lights to turn OFF or (for conveyor types interfaced with a Reliance Synergy unit) press **EMERGENCY STOP** pushbutton.

For SCS-FO or SCS-2W-FO conveyor types interfaced with a Reliance 444 washer/disinfector, a Reliance 450 washer or a Reliance/Hamo Vision Single-Chamber washer/disinfector, a pressure-release pushbutton is supplied as an accessory.

NOTE: Conveyors are never turned OFF unless the conveyor power supply ON/OFF switch or facility circuit breaker is in OFF position.

ACCESSORIES

The SCS Conveyor System is designed with a complete package of accessories (see **Table 2**) to enable great design flexibility.

CONTROL SYSTEM

Each conveyor equipped with a feed-in (FI) or feed-out (FO) system to load or unload a washer/disinfector or any fully automated conveyor (SCS-FA) is equipped (see **Table 5**) with a PLC controller. Other automatic conveyor designs use relays and proximity sensors to detect baskets and/or racks and control operation.

INSTALLATION

The SCS Conveyor System is designed to be freestanding. The minimum clearance between the finished floor and the conveyor is 29" (737 mm). The minimum service clearance for the motorized conveyors (motorized side) is 10" (254 mm) if access is available on both sides of the conveyor; 17" (432 mm) if access is only on one side of the conveyor.

PREVENTIVE MAINTENANCE

Customers are encouraged to contact STERIS concerning annual maintenance programs. Under the terms of these programs, 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.

Table 1. SCS Conveyor Solutions (Simple Load/Unload Design to Fully Automated Conveyor Design)

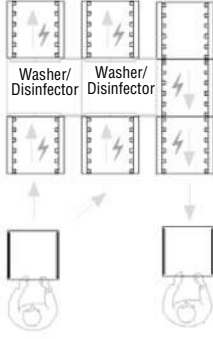
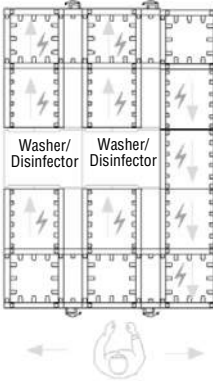
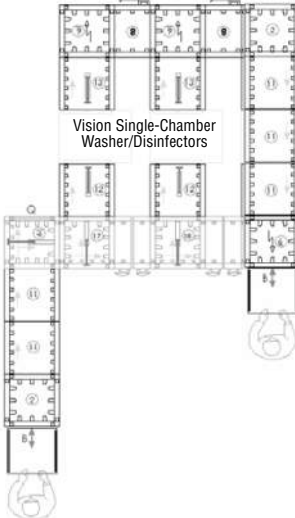
<p>Load/Unload SCS Conveyor</p> 	<p>Load/Unload SCS Conveyor Features:</p> <ul style="list-style-type: none"> • Load point at individual washer • Users select washer to feed • Manual rack transportation using TC • Stand alone return line • Low queue capacity
<p>Semi-Automated SCS</p> 	<p>Semi-Automated SCS Features:</p> <ul style="list-style-type: none"> • Multiple load points • Users select washer to feed • Manual rack transportation using conveyor • Connected return line • Moderate queue capacity
<p>Fully-Automated SCS</p> 	<p>Fully-Automated SCS Features:</p> <ul style="list-style-type: none"> • Set it and forget it – Single load point • Traffic manager selects washer • Automated rack transportation • Connected return line • Maximum queue capacity/foot print ratio

Table 2. Standard SCS Return Lines and Semi-Automated Configurations

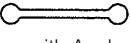
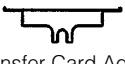





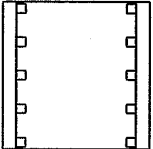


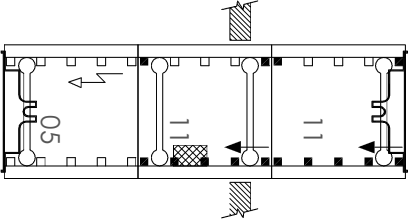
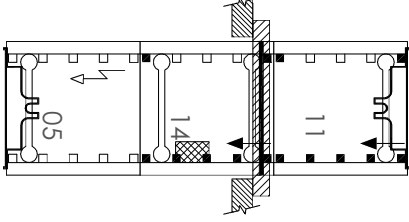
Configuration	Description
<p>LEGEND</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>Legs with Anchorage</p> </div> <div style="text-align: center;">  <p>Transfer Card Adaptor</p> </div> <div style="text-align: center;">  <p>Electrical Power Supply</p> </div> <div style="text-align: center;">  <p>Wall</p> </div> <div style="text-align: center;">  <p>Unload Flow</p> </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 20px;"> <div style="text-align: center;">  <p>Work Flow</p> </div> <div style="text-align: center;">  <p>Pneumatic Cylinder</p> </div> <div style="text-align: center;">  <p>SCS Conveyor Module</p> </div> <div style="text-align: center;">  <p>Non-Motorized Roller</p> </div> <div style="text-align: center;">  <p>Motorized Roller</p> </div> </div>	
<p style="text-align: center;">SCS-L-001</p> 	<p>Three module motorized return line. Return line provides the transportation of racks to the soiled side from the clean side.</p> <p>Configuration fits with a single-chamber washer/ disinfecter, single load and single unload modules.</p> <p>Please refer to Drawing 920-513-846.</p>
<p style="text-align: center;">SCS-L-002</p> 	<p>Three module motorized return line with an automated return line door. Return line provides the transportation of racks to the soiled side from the clean side with an automated return door to minimize cross-contamination. Configuration fits with a single-chamber washer/disinfecter, single load and single unload modules.</p> <p>Please refer to Drawing 920-513-846.</p>

Table 2. Standard SCS Return Lines and Semi-Automated Configurations (Cont'd)

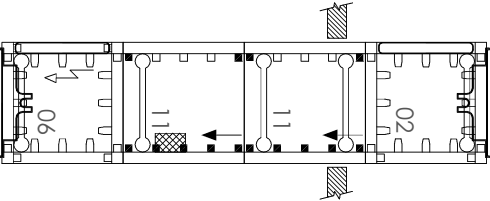
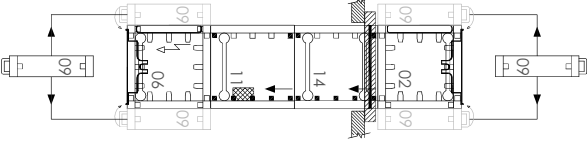
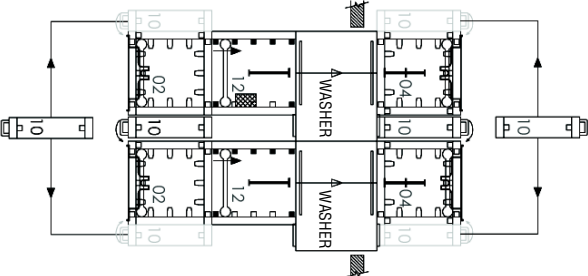
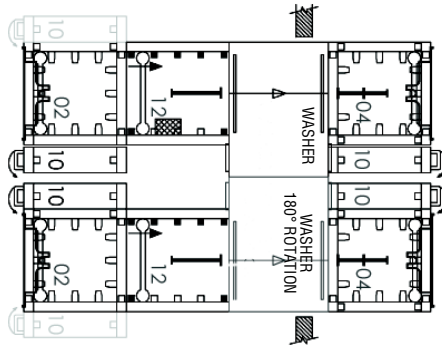
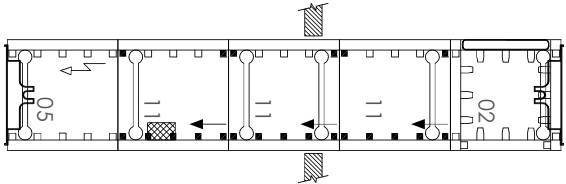
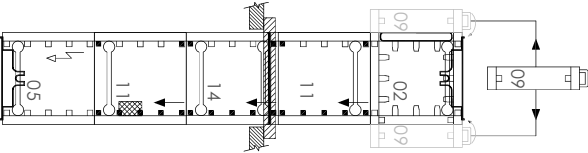
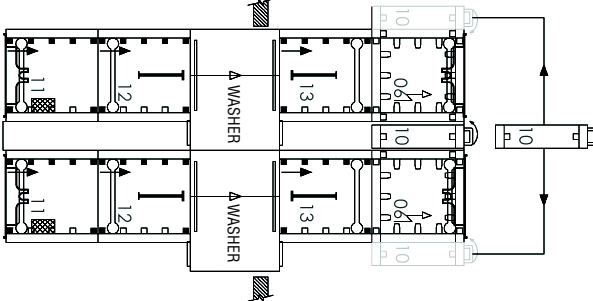
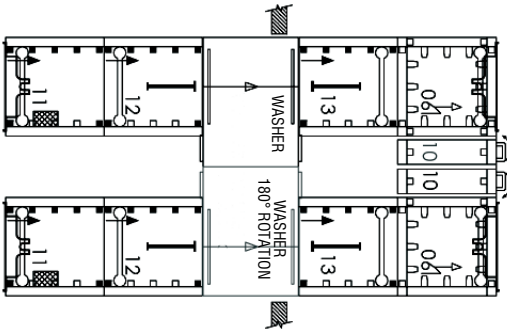
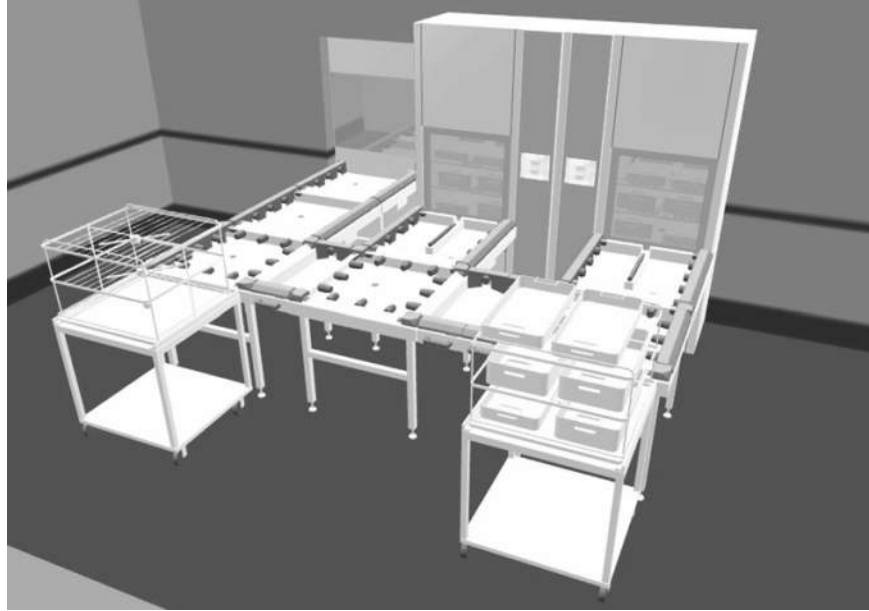
Configuration	Description
<p style="text-align: center;">SCS-L-003</p> 	<p>Four module motorized return line. Return line provides the transportation of racks to the soiled side from the clean side. Configuration fits with a single-chamber washer/disinfector, double load and single unload modules.</p> <p>Please refer to Drawing 920-513-813.</p>
<p style="text-align: center;">SCS-L-004</p> 	<p>Four module motorized return line with an automated return line door. Return line provides the transportation of racks to the soiled side from the clean side with an automated return door to minimize cross-contamination. Configuration fits with a single-chamber washer/disinfector, double load and single unload modules.</p> <p>Please refer to Drawing 920-513-813.</p>
<p style="text-align: center;">SCS-L-005</p> 	<p>Standardized layout utilizing a combination of motorized and transversal non-motorized modules. This layout provides manual transportation of racks across the conveyor and then automatically from the soiled side through the washer/disinfector to clean side. This configuration fits with return lines SCS-L-003 and SCS-L-004.</p> <p><i>NOTE: Maximum four washers per layout.</i></p> <p>Please refer to Drawing 920-513-813.</p>
<p style="text-align: center;">SCS-L-010</p> 	<p>Standardized layout utilizing a combination of motorized and transversal non-motorized modules. This layout provides manual transportation of racks across the conveyor and then automatically from the soiled side through the washer/disinfector to clean side. This configuration fits with return lines SCS-L-003 and SCS-L-004 with one washer rotated 180° and an additional SCS-SE-LG.</p> <p><i>NOTE: Maximum four washers per layout.</i></p> <p>Please refer to Drawing 920-513-813.</p>

Table 2. Standard SCS Return Lines and Semi-Automated Configurations (Cont'd)

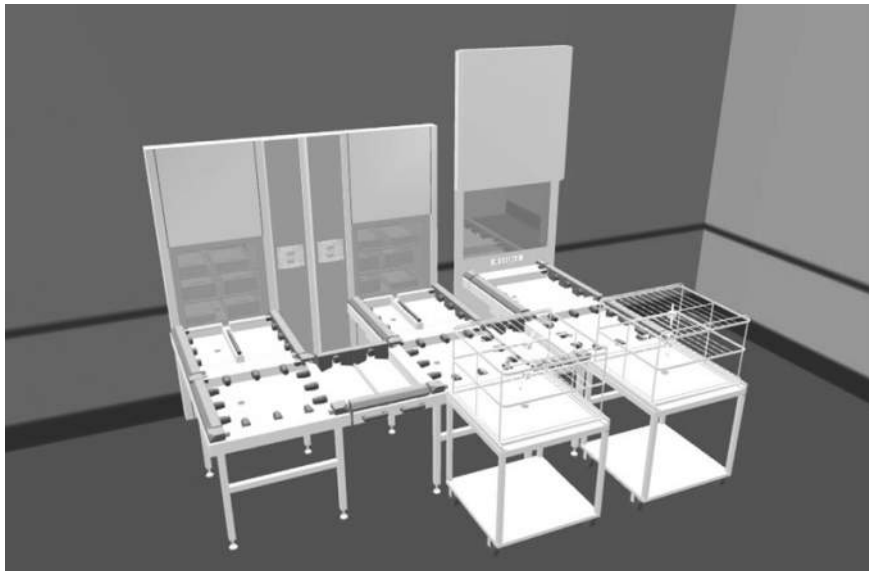
Configuration	Description
<p style="text-align: center;">SCS-L-006</p> 	<p>Five module motorized return line. Return line provides the transportation of racks to the soiled side from the clean side. Configuration fits with a single-chamber washer/disinfector, double load and double unload modules.</p> <p>Please refer to Drawing 920-513-812.</p>
<p style="text-align: center;">SCS-L-007</p> 	<p>Five module motorized return line with an automated return line door. Return line provides the transportation of racks to the soiled side from the clean side. Configuration fits with a single-chamber washer/disinfector, double load and double unload modules.</p> <p>Please refer to Drawing 920-513-812.</p>
<p style="text-align: center;">SCS-L-008</p> 	<p>Standardized layout utilizing a combination of motorized and transversal non-motorized modules. This layout provides manual transportation of racks across the conveyor and then automatically from the soiled side through the washer/disinfector to clean side. This configuration fits with return lines SCS-L-006 and SCS-L-007.</p> <p><i>NOTE: Maximum four washers per layout.</i></p> <p>Please refer to Drawing 920-513-812.</p>
<p style="text-align: center;">SCS-L-009</p> 	<p>Standardized layout utilizing a combination of motorized and transversal non-motorized modules. This layout provides manual transportation of racks across the conveyor and then automatically from the soiled side through the washer/disinfector to clean side. This configuration fits with return lines SCS-L-006 and SCS-L-007 with one washer rotated 180° and an additional SCS-SE-LG.</p> <p><i>NOTE: Maximum four washers per layout.</i></p> <p>Please refer to Drawing 920-513-812.</p>

NOTE: The standard layouts are shown. If a different layout is needed, contact STERIS.



Load Side Conveyor Layout (Typical)

(Illustrates a combination of standard layout SCS-L-010 and return line SCS-L-004)



Unload Side Conveyor Layout (Typical)

(Illustrates a combination of standard layout SCS-L-009 and return line SCS-L-007)

Table 3. SCS Non-Motorized Modules

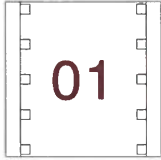
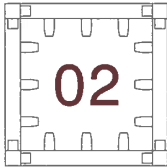

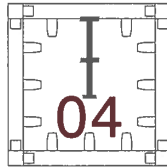
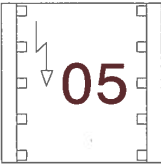
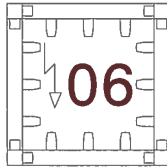
<p>SCS-B</p> 	<p>SCS-2W</p> 
<p>SCS-FO</p> 	<p>SCS-2W-FO</p> 
<p>SCS-LE</p> 	<p>SCS-2W-LE</p> 
Description	Equipment Number
01 – Basic Non-Motorized	SCS-B
02 – Non-Motorized 2-Direction	SCS-2W
03 – Non-Motorized with Feed-Out	SCS-FO
04 – Non-Motorized 2-Direction with Feed-Out	SCS-2W-FO
05 – Non-Motorized for Line End	SCS-LE
06 – Non-Motorized 2-Direction for Line End	SCS-2W-LE

Table 4. SCS Extensions and Lift Gates

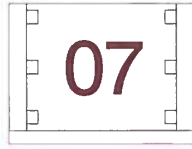
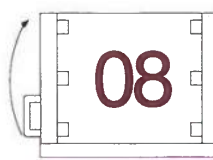


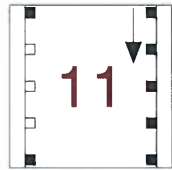
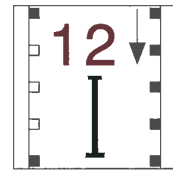


SCS Extensions and Lift Gates	
<p>SCS-E</p> 	<p>SCS-E-LG</p> 
<p>SCS-SE</p> 	<p>SCS-SE-LG</p> 
SCS Semi-Automated Motorized Modules	
<p>SCS-BM</p> 	<p>SCS-M-FI</p> 
<p>SCS-M-FO</p> 	<p>SCS-M-RD</p> 
Description	Equipment Number
07 – Extension	SCS-E
08 – Extension with Lift Gate	SCS-E-LG
09 – Short Extension	SCS-SE
10 – Short Extension with Lift Gate	SCS-SE-LG
11 – Basic Motorized	SCS-BM
12 – Motorized with Feed-In	SCS-M-FI
13 – Motorized with Feed-Out	SCS-M-FO
14 – Motorized Return Door	SCS-M-RD

Table 5. SCS Fully Automated Motorized Modules

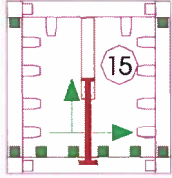
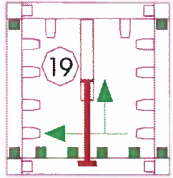
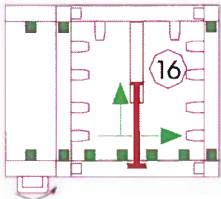
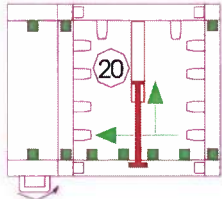
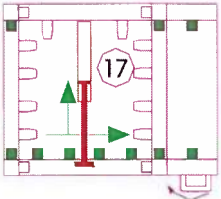
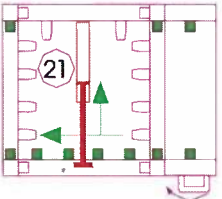
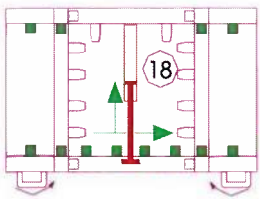
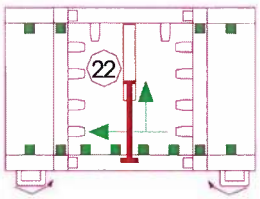
Left-to-Right Configurations	Right-to-Left Configurations
<p style="text-align: center;">SCS-FA-L</p> 	<p style="text-align: center;">SCS-FA-R</p> 
<p style="text-align: center;">SCS-FA-L-ULG</p> 	<p style="text-align: center;">SCS-FA-R-DLG</p> 
<p style="text-align: center;">SCS-FA-L-DLG</p> 	<p style="text-align: center;">SCS-FA-R-ULG</p> 
<p style="text-align: center;">SCS-FA-L-2LG</p> 	<p style="text-align: center;">SCS-FA-R-2LG</p> 
Description	Equipment Number
15 – SCS Fully Automated Left to Right – No Lift Gate	SCS-FA-L
16 – SCS Fully Automated Left to Right – Upstream Lift Gate	SCS-FA-L-ULG
17 – SCS Fully Automated Left to Right – Downstream Lift Gate	SCS-FA-L-DLG
18 – SCS Fully Automated Left to Right – Two Lift Gates	SCS-FA-L-2LG
19 – SCS Fully Automated Right to Left – No Lift Gate	SCS-FA-R
20 – SCS Fully Automated Right to Left – Downstream Lift Gate	SCS-FA-R-DLG
21 – SCS Fully Automated Right to Left – Upstream Lift Gate	SCS-FA-R-ULG
22 – SCS Fully Automated Right to Left – Two Lift Gates	SCS-FA-R-2LG

Table 6. Conveyor Accessories

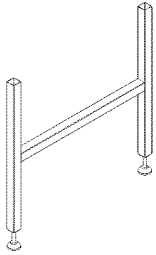
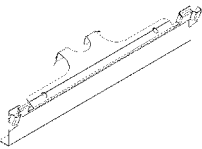

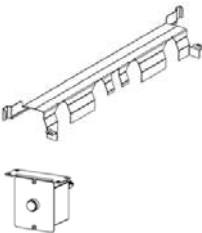
Accessory	Description
<p>Legs with Anchorage (SCS-01)</p> 	<p>Compatible with 31" (787 mm) nominal load height washers. Also allow adjustable height to adjust to floor imperfections. Includes one set of legs, installation hardware and two leg anchors.</p>
<p>Transfer Cart Adaptor (SCS-02)</p> 	<p>Adaptor compatible with all transfer carts. Allows basket to be transferred between transfer cart and conveyor safely by positioning transfer cart. When no cart is positioned against conveyor, spring mechanism raises adaptor which then acts as a guide or barrier to prevent basket from falling off.</p> <p><i>NOTE: FD24-300 Transfer Carts require installation of an upgrade package to become compatible for this adaptor.</i></p>
<p>Plastic Side Guide (SCS-03 or SCS-19)</p> 	<p>Plastic side guide to be installed on two-way conveyors located at the corners of the layout to guide baskets and prevent them from falling off open conveyor side. System layout shows where installation of this additional guide is required. Available in blue (SCS-03) or black (SCS-19).</p>
<p>Connection Pack (Motorized Loading) - Reliance 444, Genfore or Synergy (SCS-04)</p>	<p>Includes necessary mechanical and electrical hardware to connect one motorized loading conveyor to one Reliance 444, Genfore or Synergy Washer/Disinfector. Also includes bar code reader.</p>
<p>Additional Plastic Side Guide for SCS-FA (SCS-26)</p>	<p>Plastic side guide to be installed on SCS-FA located at the corners of the layout to guide baskets and prevent them from falling off open conveyor side. System layout shows where installation of this additional guide is required.</p>
<p>Drive Side Transfer Cart Adaptor for SCS-FA with GO Pushbutton (SCS-27)</p> 	<p>Compatible with FD21-800 and FD61-700 transfer carts. Allows loaded baskets to be transferred to the downstream conveyor.</p> <p>The adaptor is pressed down by the weight of the basket.</p> <p>The accessory includes a GO pushbutton switch and allows an empty basket to be moved from conveyor, or a full basket to be transported to the next conveyor.</p>

Table 6. Conveyor Accessories (Cont'd)


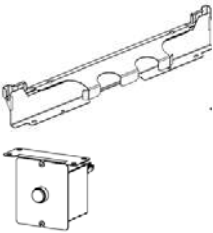
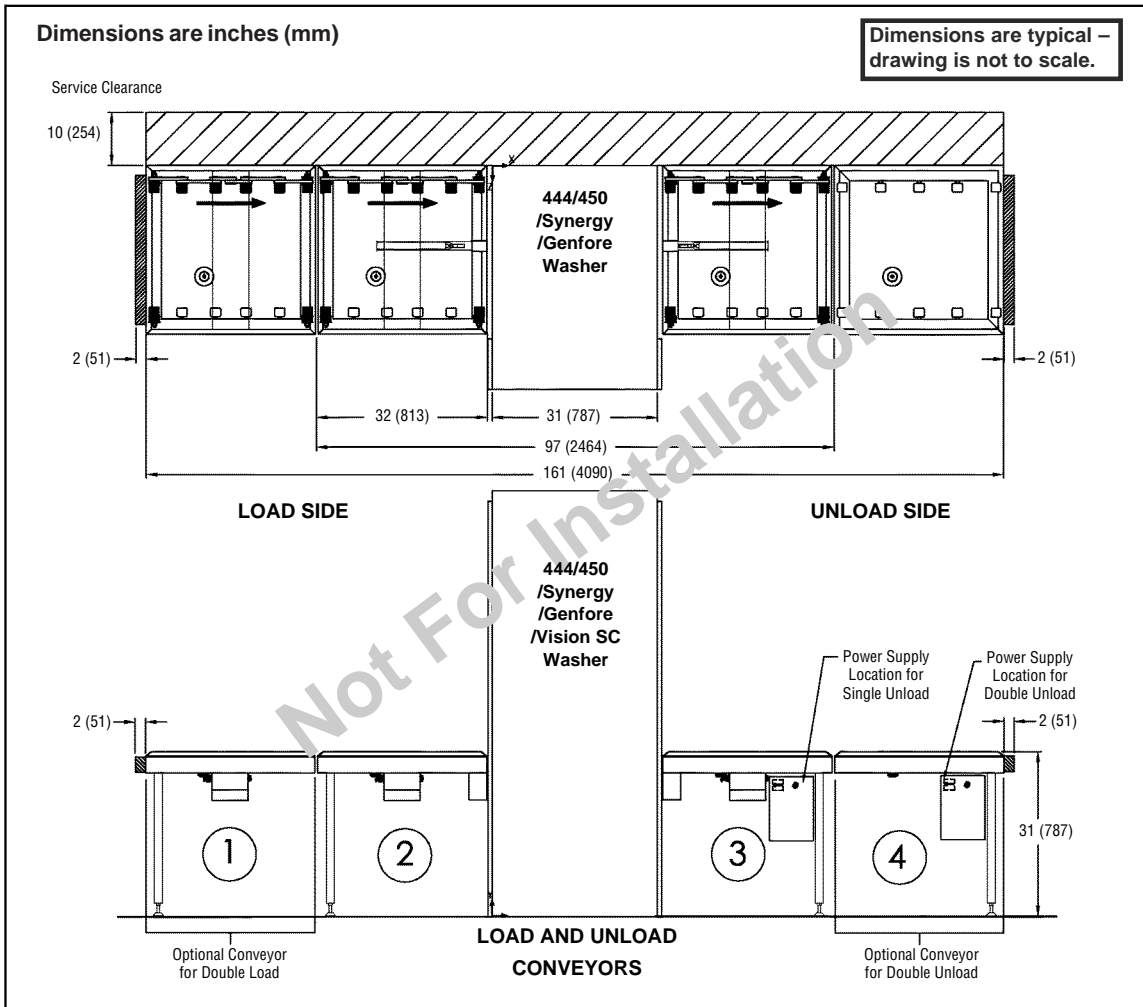
Accessory	Description
<p>GO Pushbutton for SCS-FA (SCS-28)</p> 	<p>The GO pushbutton accessory has two functions:</p> <ol style="list-style-type: none"> 1. Allows the operator to fill an empty basket with items directly on the conveyor and to decide when to put the basket back in circulation in the conveyor line. 2. Allows the operator to control the circulation of the basket over the SCS-FA conveyor.
<p>Transfer Cart Adaptor for Non-Motorized Side on SCS-FA with GO pushbutton (SCS-29)</p> 	<p>Compatible with all transfer carts. Allows empty baskets to be unloaded from the conveyor line to the transfer cart. When no cart is positioned against conveyor, spring mechanism raises adaptor which then acts as a guide or barrier to prevent basket from falling off.</p> <p>This accessory includes a GO pushbutton switch and allows an empty basket to be removed from conveyor, or a full basket to be transported to the next conveyor.</p>
<p>Connection Pack (Non-Motorized Loading) - Reliance 444, Genfore or Synergy (SCS-05)</p>	<p>Includes necessary mechanical and electrical hardware to connect one non-motorized loading conveyor to one Reliance 444, Genfore or Synergy Washer/Disinfector. Also includes bar code reader.</p>
<p>Connection Pack - Vision Multi-Chamber (SCS-06)</p>	<p>Includes necessary mechanical and electrical hardware to connect one loading conveyor (motorized or non-motorized) and one unloading conveyor (motorized or non-motorized) to one Reliance/Hamo Vision Multi-Chamber Washer/Disinfector.</p>
<p>Seismic Anchorage Pack (SCS-07)</p>	<p>Hardware to anchor one set of legs to meet seismic requirements for installation in regions prone to earthquakes. Refer to <i>Seismic Anchorage Report (920-507-203)</i> for details.</p>
<p>Electrical Power Supply (SCS-08)</p>	<p>Electrical power supply required to produce 24 Vdc for up to four motorized conveyors and/or non-motorized conveyors with feed-out. Installation kit contains one electrical power supply box, two supports, 125 ft (38 m) of electrical cable and four connectors (for 24 Vdc). Cable is to be cut to length and used exclusively to connect electrical power supply to the conveyor(s).</p>
<p>Pressure-Release Pushbutton (SCS-09)</p>	<p>Includes one pressure-release pushbutton and pneumatic hoses to be installed on one SCS-FO or one SCS-2W-FO conveyor interfaced with either a Reliance 444 or Reliance 450 Unit.</p>
<p>Drain Flexible Hose Connection Pack (SCS-10)</p>	<p>Includes one flexible hose (3/4" dia) and necessary hardware for drain connection of up to four conveyors.</p>
<p>Connection Pack (Non-Motorized Loading and Non-Motorized Unloading) to One Reliance 444, Genfore or Synergy (SCS-11)</p>	<p>Includes necessary mechanical and electrical hardware to connect one non-motorized loading conveyor and one non-motorized unloading conveyor to one Reliance 444, Genfore or Synergy Washer/Disinfector. Also includes bar code reader.</p>

Table 6. Conveyor Accessories (Cont'd)

Accessory	Description
Connection Pack (Motorized Loading) – Reliance/Hamo Vision Single-Chamber (SCS-12)	Includes necessary mechanical and electrical hardware to connect one motorized loading conveyor to one Reliance/Hamo Vision Single-Chamber Washer/Disinfector. Also includes bar code reader.
Connection Pack (Non-Motorized Loading) – Reliance/Hamo Vision Single-Chamber (SCS-13)	Includes necessary mechanical and electrical hardware to connect one non-motorized loading conveyor to one Reliance/Hamo Vision Single-Chamber Washer/Disinfector. Also includes bar code reader.
Connection Pack (Non-Motorized Loading and Non-Motorized Unloading) to One Reliance/Hamo Vision Single-Chamber (SCS-14)	Includes necessary mechanical and electrical hardware to connect one non-motorized loading conveyor and one non-motorized unloading conveyor to one Reliance/Hamo Vision Single-Chamber Washer/Disinfector. Also includes bar code reader.
Recess Installation Pack for Motorized Return Door (SCS-15)	Includes necessary mechanical hardware for a motorized return door installed along a Vision Single-Chamber washer/disinfector which is installed flush with the cleaned side wall.

EQUIPMENT DRAWINGS (REQUIRED FOR INSTALLATION)

Equipment Drawing Part Number	Equipment Drawing Title
920-506-414	SCS Conveyor System

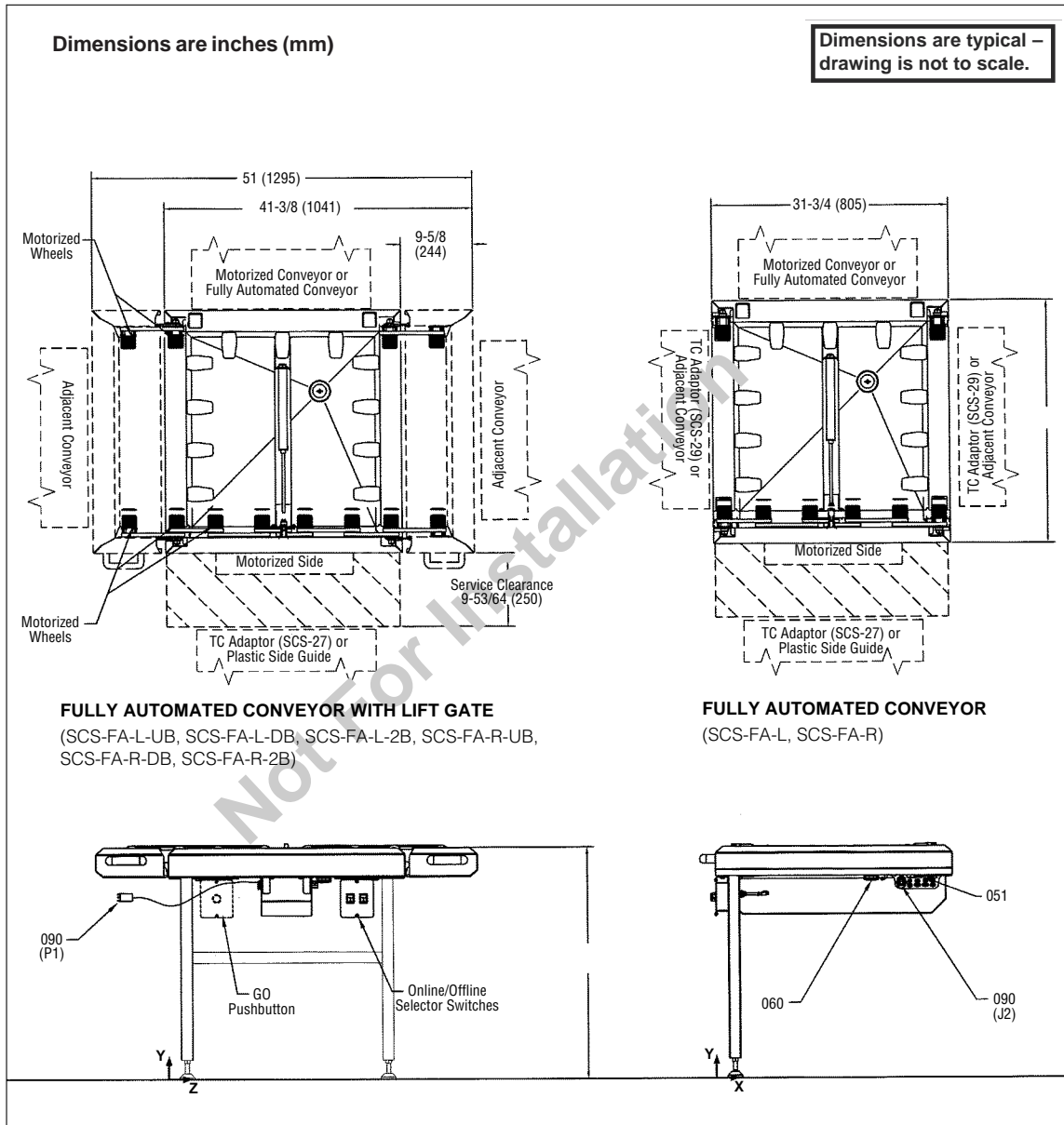


NOTES

- Conveyors are designed to give optimal results in an indoor environment where the temperature is maintained between 41-104°F (5-40°C) and maximum relative humidity is 80% for temperatures up to 88°F (31°C) decreasing linearly to 50% relative humidity at 104°F (40°C).
- Workflow arrows affixed under each conveyor must point in correct direction.
- STERIS recommends shutoff valves (not provided by STERIS) be installed on air lines and disconnect switches (not provided by STERIS) be installed on electrical supply lines.
- Clearances shown are minimal for installing and servicing the SCS Load/Unload Conveyors.
- Always follow local electrical and plumbing codes and safety-related work practices.
- Customer must ensure conveyor stands on a noncombustible, non-slip, level floor.
- Height adjustment (range) is 29 to 33" (737 to 838 mm).
- Each conveyor is individually connected (in parallel).
- Customers must decide if drains are required and what type of connections are required.

EQUIPMENT DRAWINGS (REQUIRED FOR INSTALLATION)

Equipment Drawing Part Number	Equipment Drawing Title
920-506-414	SCS Conveyor System



EQUIPMENT DRAWINGS (REQUIRED FOR INSTALLATION)

Equipment Drawing
Part Number

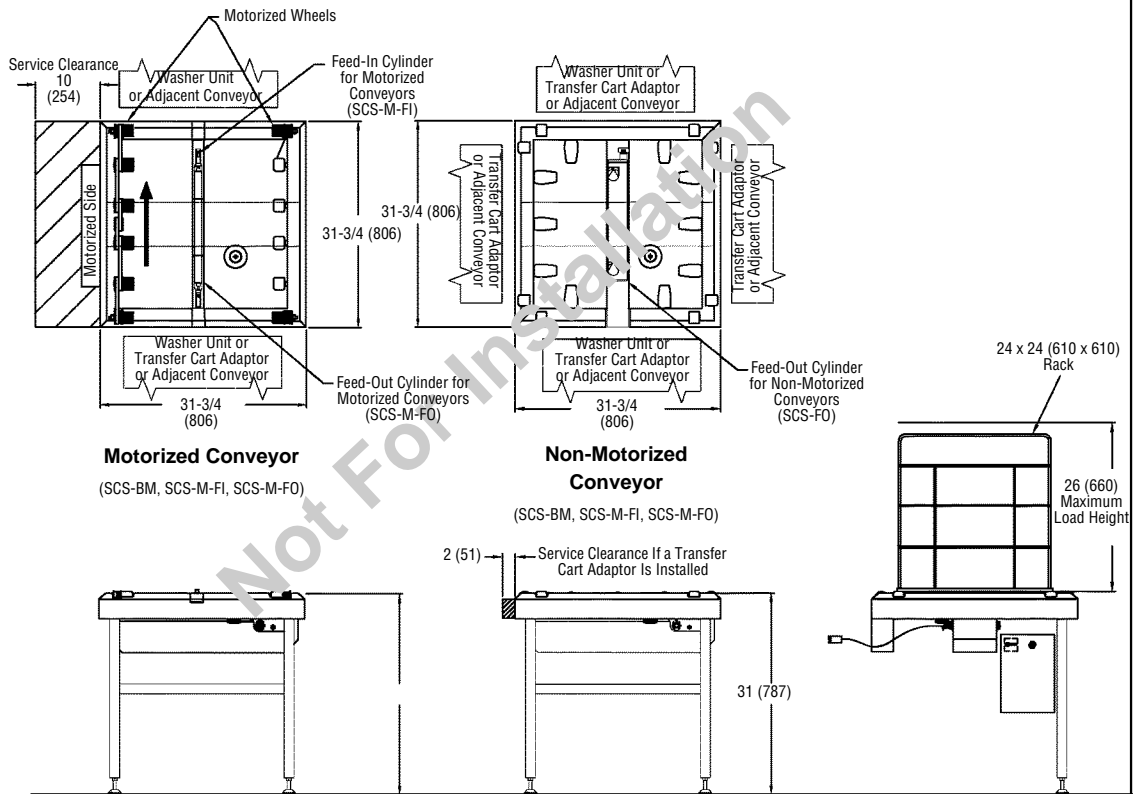
Equipment Drawing Title

920-506-414

SCS Conveyor System

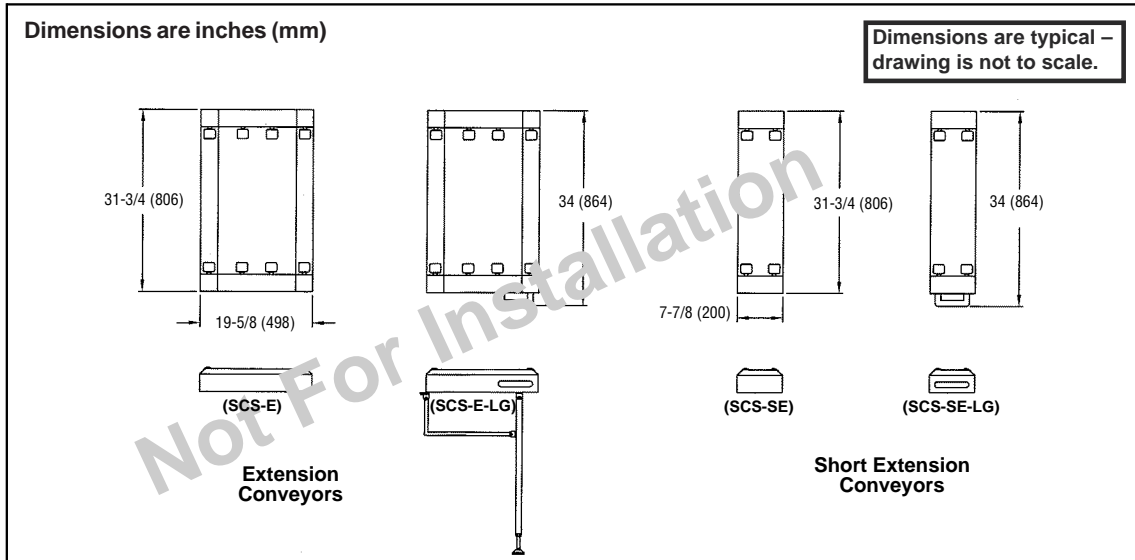
Dimensions are inches (mm)

Dimensions are typical –
drawing is not to scale.



EQUIPMENT DRAWINGS (REQUIRED FOR INSTALLATION)

Equipment Drawing Part Number	Equipment Drawing Title
920-506-414	SCS Conveyor System



NOTES

- Conveyors are designed to give optimal results in an indoor environment where the temperature is maintained between 41-104°F (5-40°C) and maximum relative humidity is 80% for temperatures up to 88°F (31°C) decreasing linearly to 50% relative humidity at 104°F (40°C).
- Workflow arrows affixed under each non two-way conveyor must point in correct direction.
- STERIS recommends shutoff valves (not provided by STERIS) be installed on air lines and disconnect switches (not provided by STERIS) be installed on electrical supply lines.
- Clearances shown are minimal for installing and servicing the SCS Conveyor System.
- Always follow local electrical and plumbing codes and safety-related work practices.
- Customer must ensure conveyor stands on a noncombustible, non-slip, level floor.
- Height adjustment (range) is 29 to 33" (737 to 838 mm).
- Maximum of four powered conveyors per power supply. Each conveyor is individually connected (in parallel).
- Customers must decide if drains are required and what type of connections are required.
- Expert Systems Planners from STERIS must assist in designing a configuration to an existing or new system focusing on the most efficient use of space.

UTILITY REQUIREMENTS

NOTE: Refer to Equipment Drawing 920-506-414 for installation details and specifications.

Weight:

- Maximum conveyor operating weight (including basket/ rack and load weight) is 135 lb (61 kg)
- Shipping weight for non-motorized conveyors is 60 lb (27 kg)
- Shipping weight for motorized conveyors is 94 lb (43 kg)
- Shipping weight for fully automated conveyors is 130 lb (59 kg)

Air (Connected to Washer Supply):

- 1/4" NPT (1/4" BSPT), 80 (dynamic) to 125 (static) psig (550-860kPa). Refer to appropriate Tech Data (SD553, SD786, SD855, SD856, SD867, SD895, SD896 and SD880).
- Operating consumption of 1 scfm (1.8 m³/min). Refer to washer technical data.

Drain:

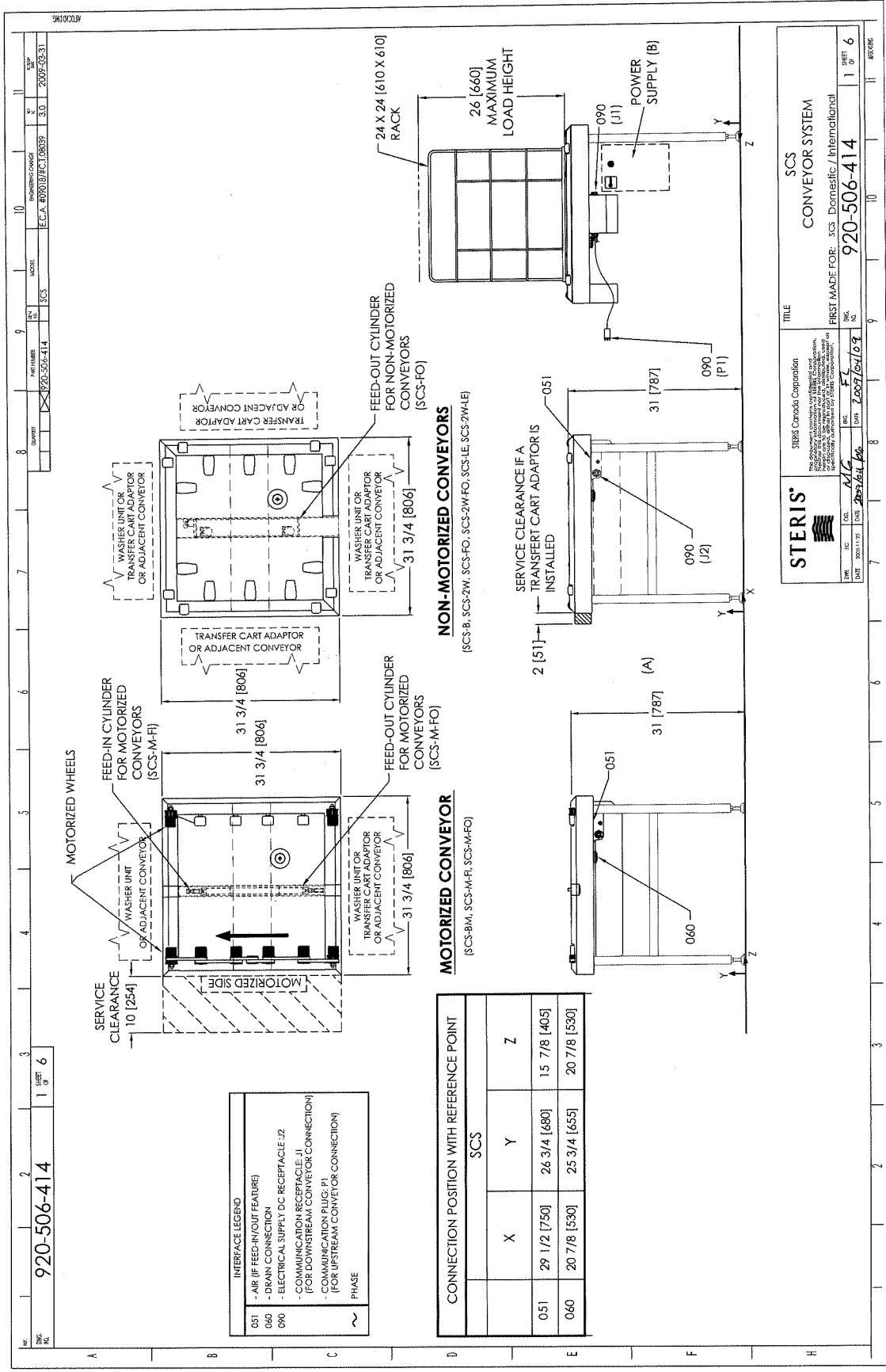
- 1-1/4" (32 mm). See NOTES.

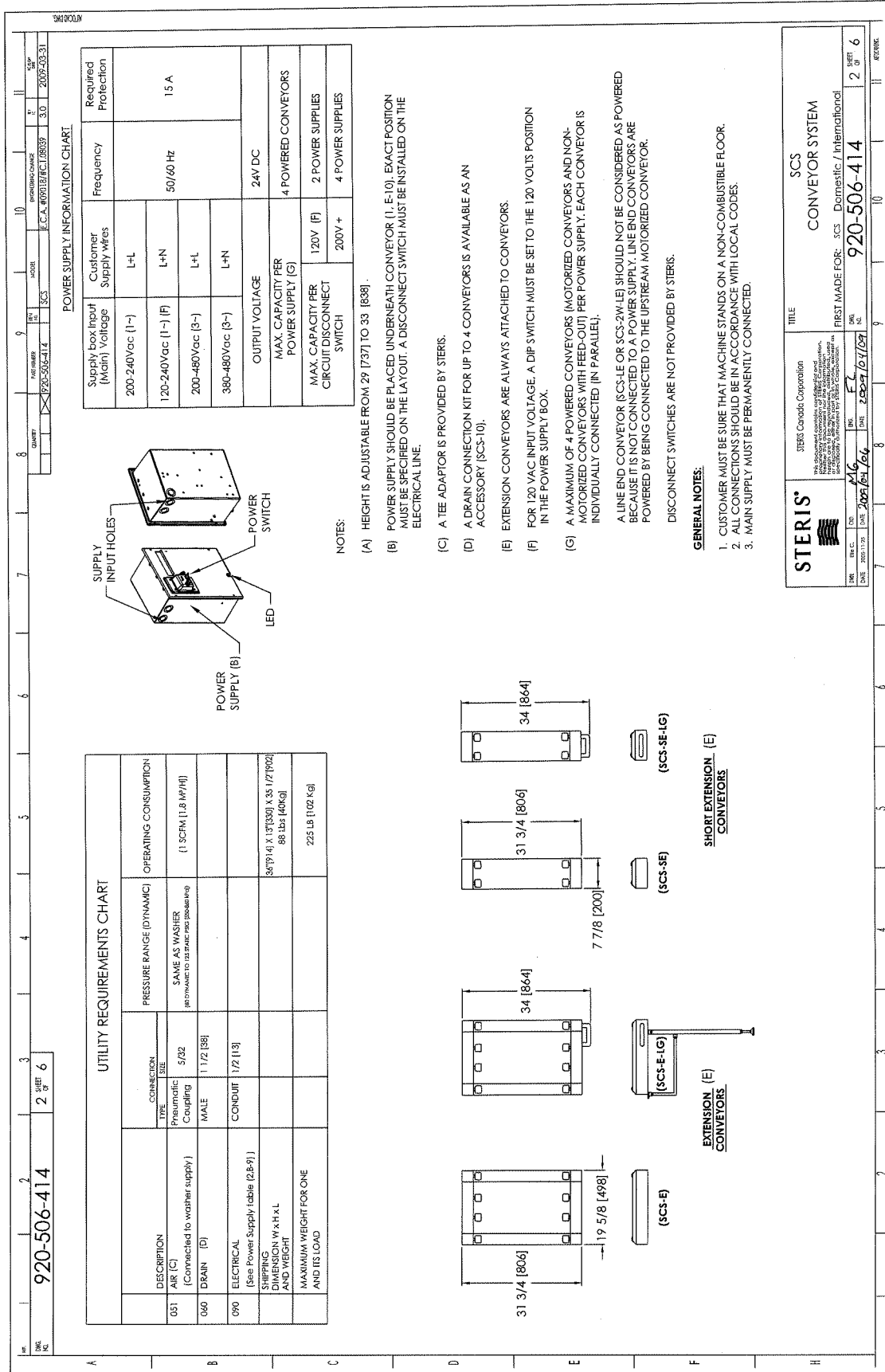
Electricity:

- 100 V, one-phase, 60 Hz, 15 Amp
- 200-240 V, one-phase, 50/60 Hz, 15 Amp
- 200-480 V, three-phase, 50/60 Hz, 15 Amp

CUSTOMER IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE LOCAL AND NATIONAL CODES AND REGULATIONS.

The base language of this document is ENGLISH. Any translations must be made from the base language document.





UTILITY REQUIREMENTS CHART

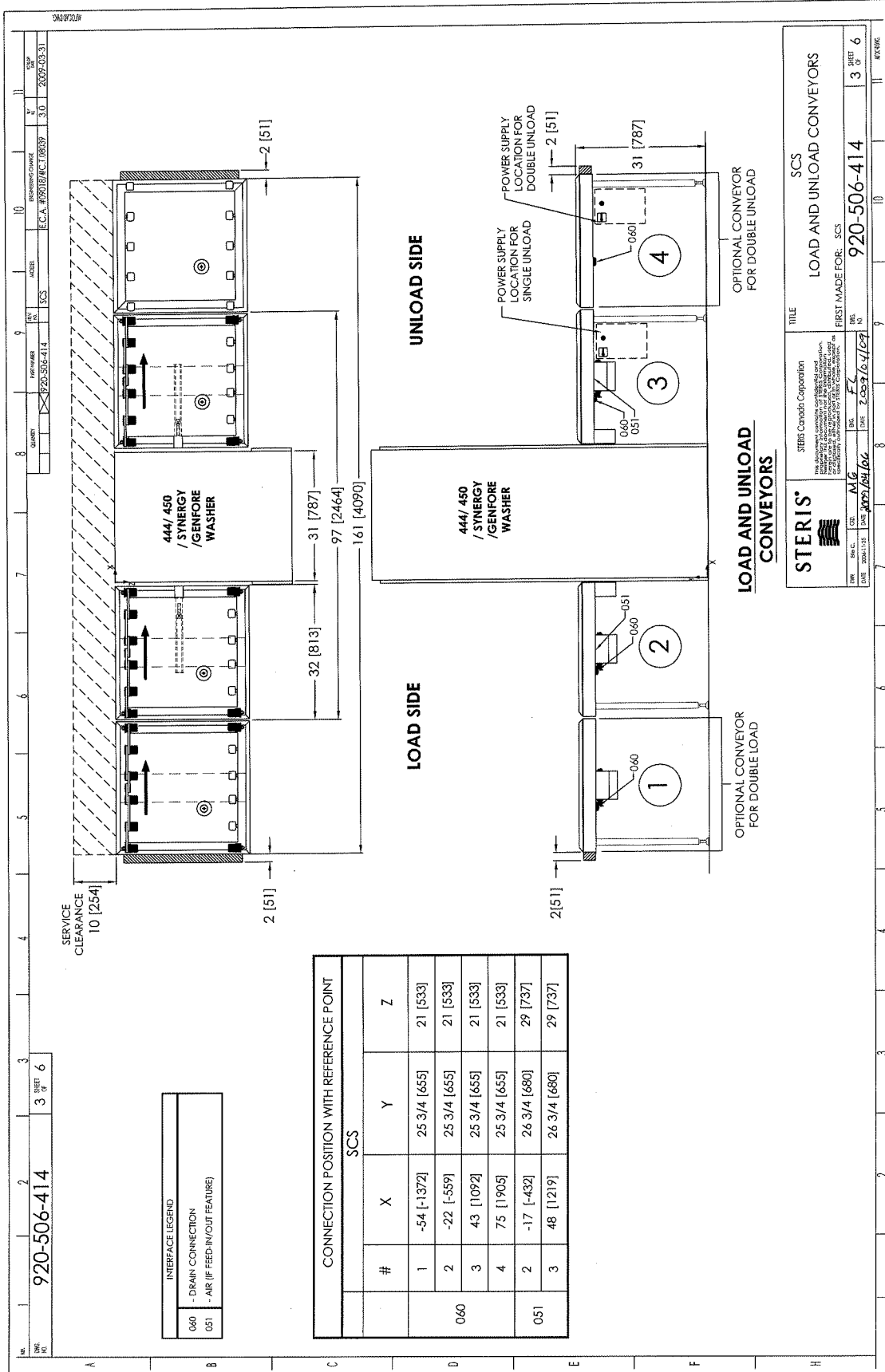
DESCRIPTION	CONNECTION TYPE	CONNECTION SIZE	PRESSURE RANGE (DYNAMIC)	OPERATING CONSUMPTION
051 AIR (C) (Connected to washer supply)	Pneumatic Coupling	5/82	SAME AS WASHER (DYNAMIC TO 15.5 PSIG PER 300MM ²)	(1 SCFM (1.8 MP1H))
040 DRAIN (D)	MALE	1 1/2 (38)		
090 ELECTRICAL (See Power Supply table (2.8-9))	CONDUIT	1/2 (13)		5879 (4) X 137(330) X 33-1/2 (802) 88 lbs (40kg)
SHIPPING DIMENSION W x H x L AND WEIGHT MAXIMUM WEIGHT FOR ONE AND ITS LOAD				225 LB (102 KG)

POWER SUPPLY INFORMATION CHART

Supply box Input (Main) Voltage	Customer Supply Wires	Frequency	Required Protection
200-240Vac (1~)	L-L	50/60 Hz	15 A
120-240Vac (1~) (F)	L-N		
200-480Vac (3~)	L-L		
380-480Vac (3~)	L-N		
OUTPUT VOLTAGE			
24V DC			
MAX. CAPACITY PER POWER SUPPLY (G)			
4 POWERED CONVEYORS			
MAX. CAPACITY PER CIRCUIT DISCONNECT SWITCH			
120V (F)			
200V +			
4 POWER SUPPLIES			

- NOTES:**
- (A) HEIGHT IS ADJUSTABLE FROM 29 [737] TO 33 [838].
 - (B) POWER SUPPLY SHOULD BE PLACED UNDERNEATH CONVEYOR (1, E-10). EXACT POSITION MUST BE SPECIFIED ON THE LAYOUT. A DISCONNECT SWITCH MUST BE INSTALLED ON THE ELECTRICAL LINE.
 - (C) A TEE ADAPTOR IS PROVIDED BY STERIS.
 - (D) A DRAIN CONNECTION KIT FOR UP TO 4 CONVEYORS IS AVAILABLE AS AN ACCESSORY (SCS-10).
 - (E) EXTENSION CONVEYORS ARE ALWAYS ATTACHED TO CONVEYORS.
 - (F) FOR 120 VAC INPUT VOLTAGE, A DIP SWITCH MUST BE SET TO THE 120 VOLTS POSITION IN THE POWER SUPPLY BOX.
 - (G) A MAXIMUM OF 4 POWERED CONVEYORS (MOTORIZED CONVEYORS AND NON-MOTORIZED CONVEYORS WITH FEED-OUT) PER POWER SUPPLY. EACH CONVEYOR IS INDIVIDUALLY CONNECTED (IN PARALLEL).
- A LINE END CONVEYOR (SCS-LE OR SCS-2W-LE) SHOULD NOT BE CONSIDERED AS POWERED BECAUSE IT IS NOT CONNECTED TO A POWER SUPPLY. LINE END CONVEYORS ARE POWERED BY BEING CONNECTED TO THE UPSTREAM MOTORIZED CONVEYOR.
- DISCONNECT SWITCHES ARE NOT PROVIDED BY STERIS.
- GENERAL NOTES:**
1. CUSTOMER MUST BE SURE THAT MACHINE STANDS ON A NON-COMBUSTIBLE FLOOR.
 2. ALL CONNECTIONS SHOULD BE IN ACCORDANCE WITH LOCAL CODES.
 3. MAIN SUPPLY MUST BE PERMANENTLY CONNECTED.

STERIS
 STERIS Canada Corporation
 The document describes configuration and installation of Steris SCS systems. It is not intended to be used as a substitute for the instructions in the Steris SCS system manual.
 DATE: 2009 Feb 16
 DATE: 2009 Feb 16
 TITLE: SCS CONVEYOR SYSTEM
 FIRST MADE FOR: SCS Domestic / International
 920-506-414
 SHEET 2 OF 6



920-506-414

3 SHEET OF 6

INTERFACE LEGEND

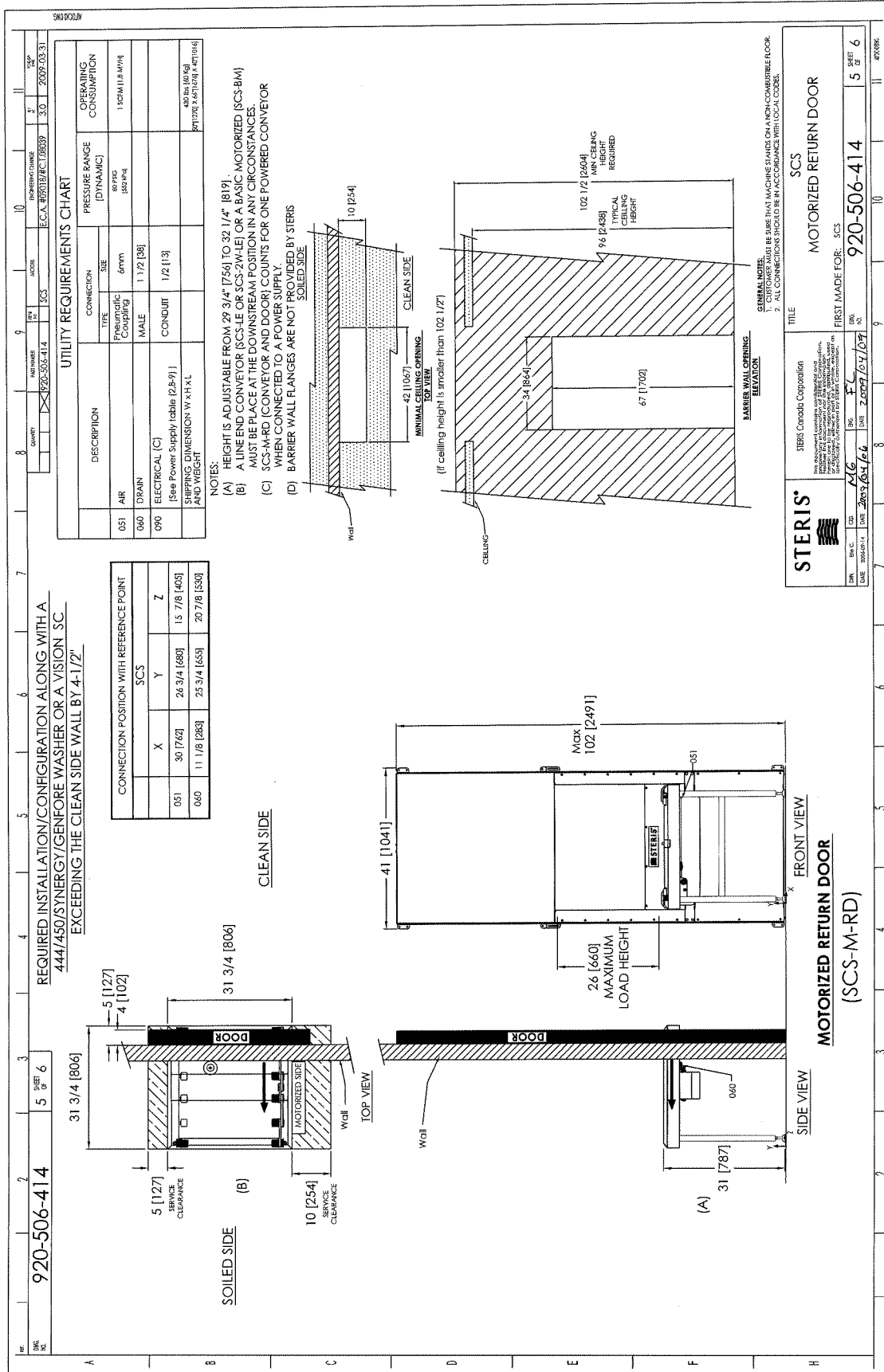
060	- DRAIN CONNECTION
051	- AIR (IF FEED-IN/OUT FEATURE)

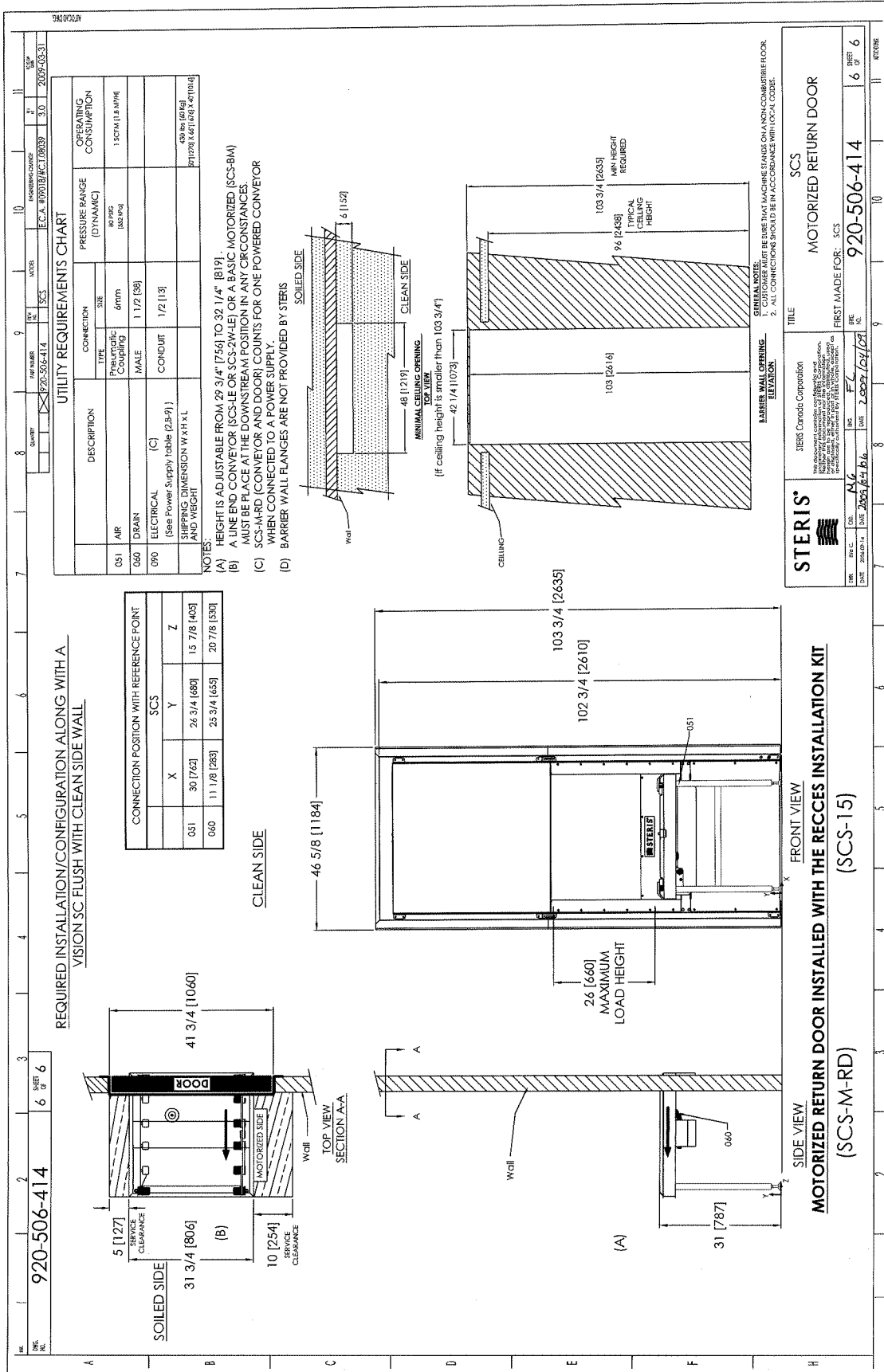
CONNECTION POSITION WITH REFERENCE POINT

SCS			
#	X	Y	Z
1	-54 [-1372]	25 3/4 [655]	21 [533]
2	-22 [-559]	25 3/4 [655]	21 [533]
3	43 [1092]	25 3/4 [655]	21 [533]
4	75 [1905]	25 3/4 [655]	21 [533]
2	-17 [-432]	26 3/4 [680]	29 [737]
3	48 [1219]	26 3/4 [680]	29 [737]

STERIS
STERIS Canada Corporation
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100	2005-10-10	MLG	MLG	2005-10-10







**Office of Statewide Health Planning and Development
ANCHORAGE PRE-APPROVAL**

OPA-0547

Equipment Manufacturer: Steris Corp.

Equipment Type: SCS Conveyor

GENERAL NOTES

1. EXPANSION ANCHORS:

(a) ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICBO REPORT.

Anchor Diameter	Concrete Type	Min. fc (psi)	Anchor Type	ICBO Report No.	Min. Embedment (inches)	Test Loads	
1/4"	Hardrock	3000	Hilti Kwik Bolt III	ESR-1385	2	Direct Pull Tension - 1100	Torque 25 Ft-Lbs

2. TESTING OF EXPANSION ANCHORS:

(a) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, DIRECT PULL TENSION TEST OR TORQUE TEST AT LEAST 50% OF THE ANCHORS.

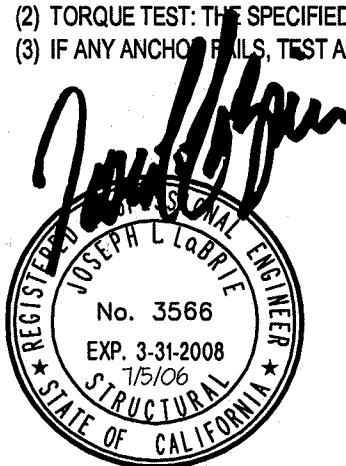
(b) ACCEPTANCE CRITERIA:

(1) DIRECT PULL TENSION TEST:

THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE TEST LOAD. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER BECOMES LOOSE.

(2) TORQUE TEST: THE SPECIFIED TORQUE MUST BE REACHED WITHIN ONE-HALF (1/2) TURN OF THE NUT.

(3) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.





Office of Statewide Health Planning and Development
ANCHORAGE PRE-APPROVAL

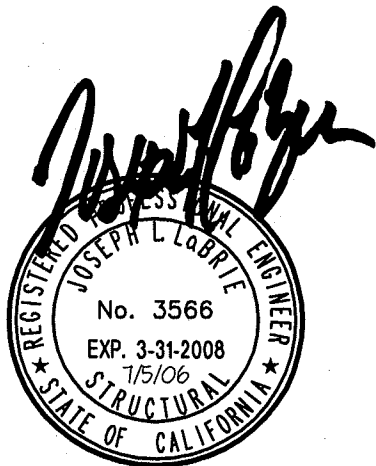
OPA-0547

Equipment Manufacturer: Steris Corp.

Equipment Type: SCS Conveyor

GENERAL NOTES (CONTINUED)

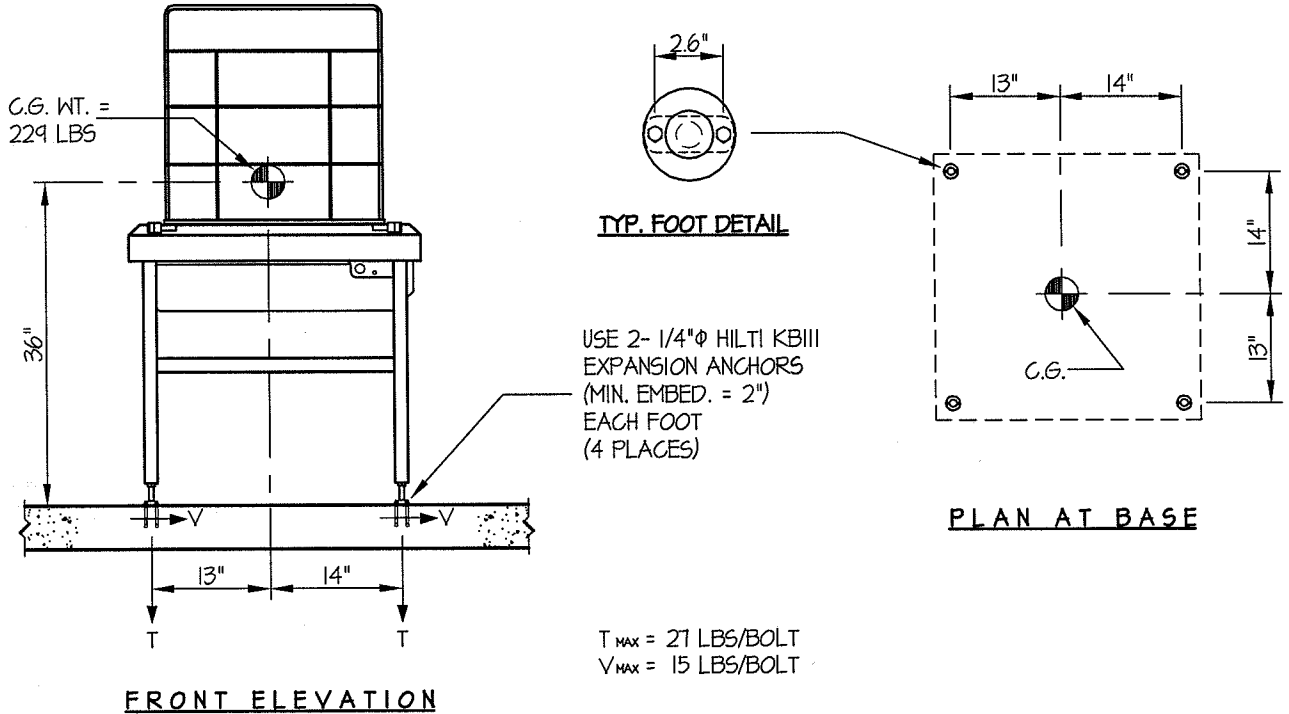
3. FORCES ARE DETERMINED PER 2001 CBC 1632A.2, EQUATIONS 32-A1, A2 & A3, WHERE $C_a = .66, a_p = 1.0, I_p = 1.5$
 $R_p = 3.0$ FOR UPPER FLOOR AND $R_p = 1.5$ FOR SLAB ON GRADE.
 PLEASE NOTE THAT THE RESULT FROM EQUATIONS 32-A1, A2 & A3
 HAVE BEEN REDUCED BY A FACTOR OF 1.4 FOR ALLOWABLE STRESS DESIGN.
4. THIS PRE-APPROVAL CONFORMS TO THE 2001 CALIFORNIA BUILDING CODE.
5. THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY LOCATION IN THE STATE OF CALIFORNIA.
 THE UPPER FLOOR DETAILS MAY BE USED AT ANY HEIGHT IN THE BUILDING.
6. THE ENGINEER OF RECORD SHALL DESIGN BACKING BARS, STUDS, ETC.
 WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS. THE ENGINEER OF RECORD
 SHALL ALSO VERIFY THE ADEQUACY OF THE STRUCTURES (SUCH AS WALLS AND FLOORS)
 WHICH SUPPORT THE UNITS FOR THE LOADS IMPOSED ON THEM BY THE UNITS AS WELL AS ALL OTHER LOADS.
7. ALL ANCHOR FORCES SHOWN ON THE DRAWINGS ARE WORKING LOADS (AS OPPOSED TO ULTIMATE LOADS)
 AND MAY BE USED FOR ALLOWABLE STRENGTH DESIGN.



EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.equipmentanchorage.com	DES. R. LA BRIE	SHEET
	JOB NO. 14-0609	3
	DATE 7/5/06	OF 4 SHEET
STERIS CORPORATION SCS CONVEYOR		

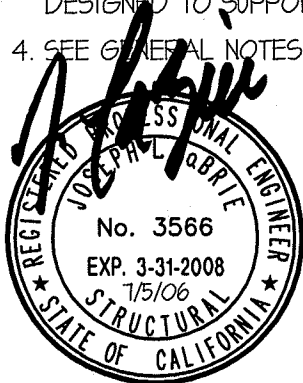
SEISMIC ANCHORAGE PRE-APPROVAL

SLAB ON GRADE



NOTES:

- ANCHORAGE DESIGN PER 2001 CALIFORNIA BUILDING CODE - SECTION I632A AND HAVE BEEN FACTORED TO REPRESENT WORKING DESIGN LOADS, NOT ULTIMATE.
 HORIZONTAL FORCE (V_H) = $0.50W$ ($C_a = .66, I_p = 1.5, a_p = 1.0, R_p = 1.5$)
 VERTICAL FORCE (V_V) = $0.33(V_H)$
- CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
- SEE GENERAL NOTES: SHEETS I-2

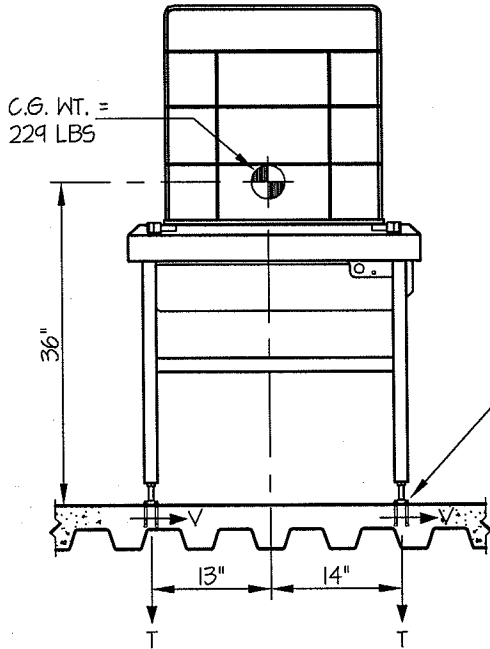


A P P R O V E D	
Fixed Equipment Anchorage	
Office of Statewide Health Planning and Development	
OPA-0547	
on	
Wednesday, July 5, 2006	
<i>Anthony R. Pike</i>	
Anthony R. Pike	(916) 654-3362

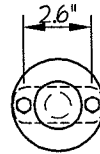
EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.equipmentanchorage.com		
STERIS CORPORATION	DES. R. LA BRIE	SHEET 4 OF 4 SHEET
	JOB NO. 14-0609	
SCS CONVEYOR	DATE 7/5/06	

SEISMIC ANCHORAGE PRE-APPROVAL

UPPER FLOOR

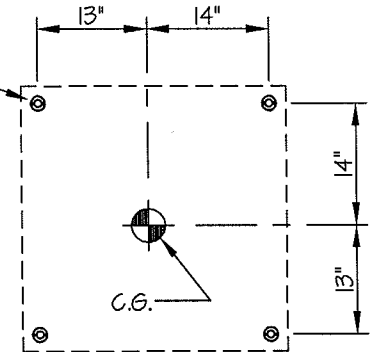


FRONT ELEVATION



TYP. FOOT DETAIL

USE 2- 1/4"Φ HILTI KBIII
 EXPANSION ANCHORS
 (MIN. EMBED. = 2")
 EACH FOOT
 (4 PLACES)

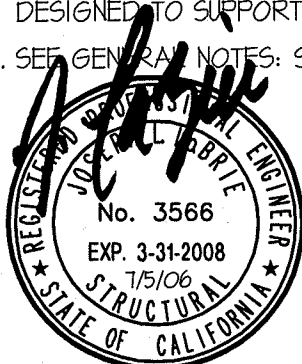


PLAN AT BASE

T_{MAX} = 76 LBS/BOLT
 V_{MAX} = 28 LBS/BOLT

NOTES:

- ANCHORAGE DESIGN PER 2001 CALIFORNIA BUILDING CODE - SECTION 1632A AND HAVE BEEN FACTORED TO REPRESENT WORKING DESIGN LOADS, NOT ULTIMATE.
 HORIZONTAL FORCE (V_H) = 0.94W (C_a = .66, I_p = 1.5, a_p = 2.5, R_p = 3.0)
 VERTICAL FORCE (V_V) = 0.33(V_H)
- CENTER OF GRAVITY (C.G.) WEIGHT INCLUDES CONTENTS AND IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
- SEE GENERAL NOTES: SHEETS 1 & 2





Cut Sheet Summary

GBA Id **19892**

Item **Washer Disinfector**

Manufacturer **Steris**

Model **RELIANCE VISION**



Image shown may vary in color or finish from actual item to be purchased.

Physical	Electrical	Plumbing/Mechanical	Responsibilities
Height ("): 81.00	<input type="checkbox"/> Multiple Elec Reqs	<input type="checkbox"/> Medical Gas	Furnished by: Owner
Width ("): 42.00	Voltage: 480	<input checked="" type="checkbox"/> Compressed Air	New Install: Med Equip Vendor
Depth ("): 32.00	Hertz: 60	<input checked="" type="checkbox"/> External Exhaust	Existing Install: N/A
Weight (lb): 458	Phase: 3	<input type="checkbox"/> Ventilation	Deinstall/ Move: N/A
Operating Wt (lb): 1,187	Amps: 17	<input checked="" type="checkbox"/> Building Steam	<input checked="" type="checkbox"/> Contractor Rough-In
Installation / Placement			
Placement: Recessed - Wall	Watts:	<input type="checkbox"/> Integral Steam Generator	Notes
<input type="checkbox"/> Component System	Volt Amps:	<input checked="" type="checkbox"/> Cold Water	
Seismic Anchorage			
Type: Floor	Breaker Size: 25	<input checked="" type="checkbox"/> Hot Water	<input checked="" type="checkbox"/> Critical Path Item
Pre-apprvl #: OPA-2057-07	<input type="checkbox"/> Dedicated	<input checked="" type="checkbox"/> Treated Water	<input type="checkbox"/> Refer to Vendor Dwg
	<input type="checkbox"/> Emergency	<input checked="" type="checkbox"/> Drain	<input checked="" type="checkbox"/> See Mfgr Cut Sheets
	<input checked="" type="checkbox"/> Hard-wired <input type="checkbox"/> Power Cord	BTUs/Hr: 6,299	<input checked="" type="checkbox"/> Dimensions may be rounded; see vendor sheets
	NEMA:		N/A Responsibilities = No Qty (New /Existing)
	Network Connection: Wired		
	<input type="checkbox"/> Cable TV		
	<input type="checkbox"/> Analog Phone Line		
	<input type="checkbox"/> Remote Alarm		

Comments:

The information provided on this summary sheet is based on the data contained on the manufacturer cut sheet(s) that follow. It is the responsibility of the recipient to review the manufacturer's cut sheets for complete information. All specifications included in this document are subject to change without notice by the manufacturer.





RELIANCE® VISION® SINGLE-CHAMBER WASHER/DISINFECTOR

APPLICATION

The Reliance Vision Single-Chamber Washer/Disinfector is intended for use in the cleaning and intermediate level disinfection of soiled reusable utensils, trays, glassware, bedpans and urinals, rubber and plastic goods, simple hard-surfaced rigid surgical instruments (such as forceps and clamps), theater shoes and other similar and related items found in healthcare facilities.

DESCRIPTION

The Reliance Single-Chamber Washer/Disinfector is a mechanical washer/disinfector equipped with an Allen-Bradley SoftLogix™ PC-based control system¹. Three chemical injection pumps are included in a standard washer/disinfector with up to two additional chemical injection pumps (accessories) available if desired. The washer is available in a double-door configuration.

The washer/disinfector is designed with five preprogrammed cycles (Instruments, Utensils, Plastic Goods, Gentle Cycle and Ortho.) and one decontamination cycle. The washer/disinfector also features 15 open cycles for customized programming to meet specific operating requirements.

Cycles operate through a combination of the following phases: Pre-Wash, Enzyme, Wash, Rinse, Thermal Rinse and Drying.



(Typical only - some details may vary.)

¹ SoftLogix™ is a trademark of Allen-Bradley, a Rockwell Automation Company.

The Selections Checked Below Apply To This Equipment

VOLTAGE*

Steam-Heated Washer/Disinfector

- 200/208 V, three-phase, 60 Hz
- 200/208 V, three-phase, 50 Hz
- 460/480 V, three-phase, 60 Hz
- 380/400/415 V, three-phase, 50 Hz

Electric-Heated Washer/Disinfector

- 460/480 V, three-phase, 60 Hz
- 380/400/415 V, three-phase, 50 Hz

ACCESSORIES**

- Two-Level Manifold Rack**
- Three-Level Manifold Rack**
- Four-Level Manifold Rack⁺ (Height: 23" [584 mm])**
- Four-Level Manifold Rack⁺ (Height: 26" [660 mm])**
- Five-Level Manifold Rack**
- Multi-Function Rack For Large Items
- Multi-Function Rack For Small Items
- Small Mesh Instrument Tray**

ACCESSORIES (CONT'D)**

- Flexible Hold-Down Screen**
- Universal Transfer Cart
- Transfer Cart
- Air Compressor
- Multi-Voltage Transformer
- Remote Control Extension, 50' (15 m) Load Side
- Remote Control Extension, 50' (15 m) Unload Side
- Side Exterior Panels
- Condensate Return Cool Down Kit (For Steam-Heated Washer/Disinfector Only)
- Drain Discharge Cool Down Kit
- Seismic Tie-Down Kit
- Additional Chemical Pump
 - Pump 3 (For Polystica® Ultra Concentrate Chemicals)
 - Pump 4 (For Other Detergents)

REMOTE MONITORING

- ProConnect® Response Center (Remote Monitoring, Priority Technical Support, Customer Care Center Access, Equipment Performance Reports) Available Only in U.S., Canada and Latin America.

OPTIONS

- Language Package
 - French
 - Spanish
- Process Data Validation System (PDVS)
- Control Enhancement System
- Non-Vented System
- 40 Amp Minimum Circuit Protection

* Careful consideration should be given to voltage selection prior to ordering. Later changes require substantial field modification.

** See separate product literature for material handling accessories.

+ Only compatible with Vision Single-Chamber Washer/Disinfectors.

Item _____

Location(s) _____

SD880 (01/01/11)

STANDARDS

This Reliance Vision Single-Chamber Washer/Disinfector meets the applicable requirements of the following standards, **as certified by UL:**

- Underwriters Laboratories (UL) Standard UL 61010-1, Second Edition: 2005.
- Canadian Standards Association (CSA) CAN/CSA-C22.2 N° 61010-1, Second Edition.

Governing Directive for affixing of CE mark:

Medical Device Directive 93-42-EEC as amended by 2007-47-EC.

Standards applied to demonstrate conformity to directives:

IEC 61010-1; IEC 61326-1; IEC 61010-2-040;

ISO 15883-1* Washer-Disinfectors - General requirements, terms and definitions and tests;

ISO 15883-2* Washer-Disinfectors - Requirements and tests for washers-disinfectors employing thermal disinfection for surgical instruments, anaesthetic equipment, bowls, dishes, receivers, utensils, glassware, etc.

* When the Process Data Validation System (PDVS) or the Control Enhancement System is present.

SIZE (W x H x L)

Overall dimensions of a fully equipped washer/disinfector:

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

Loading height: 31" (787 mm) from the floor

Required ceiling height required: 94" (2388 mm) minimum

FEATURES

Washer is provided with two vertical airtight sliding doors to facilitate accessory rack or basket entering and exiting the chamber. Doors are automatically operated by pneumatic cylinders. Doors are made of double tempered glass to allow the operator to view the chamber interior with the doors closed and, while the cycle is in progress, to safely touch the door.

The access panels permit easy access to the washer/disinfector components for maintenance purposes.

The printer allows the operator to print process time, date and washer/disinfector malfunction data. Specific information is printed from the Cycle mode (cycle in process parameters and alarms), Service mode (washer/disinfector configuration values and setup) and Supervisor mode (supervisors list and supervisor setup).

Chemical injection pumps (three) are included in the standard washer/disinfector with up to two additional chemical injection pumps (accessories) available if desired. The pumps are located in a separate room and connected to washer/disinfector with up to 50' (15 m) of piping.

Pumps allow the use of the Prolystica® Ultra Concentrate chemicals. Each ultra concentrated product is 10 times the concentration of a traditional product, therefore 10 times less chemical is injected to properly process the cycles.

The peristaltic pumps automatically add a selected quantity of detergent. The pumps give flexibility to wash with a neutral process, an enzyme process, a dual alkaline/enzyme and enzyme/neutralizer process or to vary the chemical used depending upon the load. One pump is dedicated to lubricant or rinse aid to be injected during the Thermal Rinse phase.

Pumps automatically add:

- Ultra Concentrates: 1/40, 3/80, 1/20, 3/40 and 1/10 oz/gal (0.2 to 16 mL/L).
- Regular Chemicals: 1/8, 1/4, 3/8, 1/2, 3/4, 1/10, 1-1/2 and 2 oz/gal (0.2 to 16 mL/L).

A low-level sensor is included to indicate when the detergent level in the container is low or when insufficient chemical is available for the next cycle.

The control monitors the volume of chemicals injected and indicates if this parameter meets specified criteria during all specific phases.

An air inlet pre-filter and a High Efficiency Particulate Air (HEPA) filter are located behind upper access panel on unload side of washer/disinfector. Chamber incoming air passes through the HEPA filter to prevent any contamination of the load.

The chamber is constructed of argon-welded 16-gauge #304 stainless steel (No. 4 finish). The chamber is of sanitary-type design for complete drainage. Some horizontal fixed surfaces are sloped, overlapping metal sheets are minimized to reduce hard-to-clean locations, round corners ease the self-cleaning of the sump. The bottom of the chamber is clear of any parts.

The chamber includes a light on the chamber ceiling to illuminate the chamber interior.

A removable debris screen is located in the chamber sump and can be accessed through the chamber load door for maintenance purposes. The debris screen prevents large debris from entering the piping system and pump. The screen is provided with a handle and is easily removed for cleaning under running water.

Rotary spray arm assemblies (two) are located in the chamber (one at the top and one at the bottom) and are positioned to reach all surfaces of the load. These redesigned rotary spray arm assemblies are easily assembled/disassembled and can be accessed through the chamber load door. The Total Coverage spray arm design provides a wider, more uniform area of coverage as compared to standard spray arms.

Stainless-steel pump is an open impeller pump powered by a dual-speed motor to allow two ranges of flow rate/pressure. High pump speed provides the equivalent capacity of an 11.7 hp (8.7 kW) motor and low pump speed provides the equivalent capacity of a 2.95 hp (2.2 kW) motor. Pump motor is a TEFC class H (totally enclosed fan cooled) motor, electro-polished and of sanitary features and is equipped with an overload protection and sealed bearings (not requiring periodic lubrication) with up to 100 psig (689 kPa) at pump outlet. Pump is of 316L stainless-steel construction.

Water Filtration System includes a unique self-cleaning centrifugal filter. After water passes through the sump filter

(stopping larger debris and loose instrument parts) it continues through a centrifugal filter (removing smaller debris). This debris does not return to wash chamber or potentially plug spray arm assemblies and is automatically flushed the washer/disinfector between every cycle.

Heating coils (steam or electric) at the bottom of the chamber (sump) raises and maintains water temperature up to 180°F (82°C) during the Wash phase and up to 194°F (90°C) during the Thermal Rinse phase.

Double-walled, insulated construction of chamber exterior reduces heat loss and noise level (as low as 58.2 dB) to the work area.

A vented system is supplied enabling chamber vapors to be exhausted to the building exhaust system through a 3.0" (76 mm) OD vent connection located on top of the washer.

The drying system is a uniquely designed four-sided inflow drying pattern to produce a high-flow air curtain. This air-curtain provides broad, efficient, drying while using a combination of recycled and non-recycled air within wash chamber. Air is manifolded and circulated through the piping and accessory providing an energy efficient system ensuring a complete chamber air coverage. Fresh air is drawn through a HEPA filter. The drying system includes a 3 HP (2.2 kW) blower to remove vapor from chamber prior to the doors opening. Three heater elements totaling 15.8 HP (11.8 kW) heat maintain chamber air temperature.

Decontamination cycle is provided for weekly cleaning of the chamber, piping and accessories. Decontamination cycle is programmed at factory and cannot be modified by the operator.

Top utility connections facilitate installation. All utilities (except drain connections) are connected on the top of the washer/disinfector (refer to equipment drawing 920-508-564).

ProConnect Response Center - Minimize response time and minimize unscheduled downtime on your equipment. Secure, internet-based, 24/7 remote monitoring enables both Predictive Maintenance as well as instant alerts to STERIS when there is an equipment alarm. Also included are priority technical support, online parts ordering, equipment performance dashboards, and scheduling service at eservice.steris.com.

CYCLE DESCRIPTION

IMPORTANT: STERIS does not intend, recommend or represent in any way that this Reliance Vision Single-Chamber Washer/Disinfector be used for the terminal disinfection or sterilization of any regulated medical device. The Reliance Vision Single-Chamber Washer/Disinfector is intended only to perform an initial step in the processing of soiled, reusable medical devices. If medical devices are contacting blood or compromised tissues, such devices must be terminally processed in accordance with device manufacturer's instructions and/or Good Hospital Practices before each use in human patients.

Once cycle is selected, the washer/disinfector automatically processes the load through the following standard phases (when using Prolystica Ultra Concentrate):

- **Pre-Wash phase** – Cold or cold and hot water from building supply fills the chamber. The water is recirculated through the rotary spray arm assemblies for a selected time period. Water is drained upon phase completion. Up to four Pre-Wash phases can be selected per customized cycle.

- **Wash phase** – Cold and/ or hot water from building supply fills the chamber while detergent is automatically added at the beginning of the phase. The phase solution is recirculated through the rotary spray arm assemblies for a selected time period. If heated water is selected, water is heated by a steam or electric coil in the sump. Solution is drained upon phase completion. Up to four Wash phases can be selected per customized cycle.

If the second stage is selected, cold and/ or hot water from building supply fills the chamber at phase beginning. Load is washed for a selected time period (factory setting) with enzymatic cleaner-injected heated water (factory setting). After the selected time period, neutral detergent is injected while injected water is heated (factory-setting). Then, load is washed for a selected time period with both chemicals. Solution is drained upon completion. Up to four Wash phases can be selected per customized cycle.

- **Rinse phase** – Hot or pure water from building supply fills the chamber. The phase solution is recirculated through the rotary spray arm assemblies for a selected time period to rinse load and to cool chamber. Solution is drained upon completion. Up to four Rinse phases can be selected per customized cycle.

- **Thermal Rinse phase** – Hot or pure water from building supply fills the chamber. If needed, instrument lubricant or rinse aid is automatically added during the filling at phase beginning. This solution is recirculated through the rotary spray arm assemblies for a selected time period. Water is heated by a steam or electric coil in the sump. Water can be heated from 180 to 194°F (82.2 to 90°C). Solution is drained upon completion. Only one Thermal Rinse phase can be selected per customized cycle.

- **Drying phase** – Air is recirculated through the accessories and the chamber while a portion is exhausted to the vent for a selected time period. Air is also directed through manifolded racks for fast drying. Air can be heated at the LOW setpoint (180°F [82.2°C]) or at the HIGH setpoint (220°F [104.4°C]).

SAFETY FEATURES

Doors are equipped with a **door interlock safety mechanism** that prevents load side doors from opening at the same time as the unload side door to avoid cross-contamination. When a cycle is in progress, the **door interlock mechanism** prevents either door from being opened without aborting the cycle.

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

OPTIONAL FEATURES

Non-Vented System – Chamber vapors are exhausted through a condenser to the room. No additional duct work is required.

Control Enhancement System – The Reliance Vision Single-Chamber Washer/Disinfector can be fitted with an optional Control Enhancement System. This system monitors the parameters of the sump and drying temperature and indicates if the parameters are within the passing criteria during all specific phases.

This system also includes the Rotary spray arm assembly detection option.

The control generates alarms if data recorded independently is out of the passing criteria. This raises the level of confidence that the cycle has been successfully completed within predetermined parameters.

Process Data Validation System (PDVS) – The Reliance Vision Single-Chamber Washer/Disinfector can be fitted with an optional PDVS. This system documents and measures the parameters of the sump and drying temperature, the pump outlet pressure and the pure water supply conductivity (measured directly to the drain) to help ensure the parameters are within the passing criteria during all specific phases.

This system also includes the Rotary spray arms detection option.

The control generates alarms if data recorded independently is outside the range of the passing criteria. This raises the level of confidence that the cycle has been successfully completed within predetermined parameters.

Rotary Spray Arms Detection – The Rotary spray arms detection option is offered within the optional Control Enhancement System or the optional PDVS.

This feature detects if the chamber and accessory racks rotary spray arm assemblies are rotating freely while a cycle is in progress. If the rotary spray arms are not rotating freely, a warning is displayed on the touch screens. The operator then decides if the cycle should be aborted.

ACCESSORIES

Air compressor, complete with automatic tank drain and pressure switch, is available in either 110-115 V or 200-240 V, 50/60 Hz, single-phase. Oilless air compressor operates at 69 dB sound level. Wiring at installation not provided by STERIS.

Multi-Voltage Transformer is available for facilities requiring the following configurations:

- 600 V, three-phase, 60 Hz, steam or electric-heated;
- 240 V, three-phase, 60 Hz, steam or electric-heated;
- 200/208 V, three-phase, 60 Hz, electric-heated.

Use the multi-voltage transformer combined with a 480 V, three-phase, 60 Hz, steam or electric-heated washer/disinfector.

Drain discharge cool down ensures water drained at the end of each phase, from the chamber sump to the 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 the water temperature discharged into the building drain system.

NOTE: *This accessory can add up to 120 seconds to the standard drain time.*

Condensate return cool down allows for the connection of a condensate return outlet to the drain when a condensate return line is not available in the building. Cold water is always injected in the drain piping when condensate is sent to drain line (or whenever steam valve is open). Condensate return cool down keeps the temperature in the drain piping below 140°F (60°C).

Remote control extensions allow the control to be relocated up to 50' (15 m) away from the washer/disinfector, and is available on the load or unload side.

Seismic anchorage system includes a seismic report for proper installing and securing of washer/disinfector to the building floor. Washer/disinfector is designed to comply with Seismic Zone 3 and 4 requirements.

Flexible hose for cannulated instruments provides easy access to flush up to four lumen devices per level (except top level) on the Vision Single Chamber racks except for the Five-Level rack that is supplied with two lumens per level (and none on top level). This accessory can be added and removed to meet user requirements.

Flexible hold-down screens (easy to use silicone hold-down accessories) are used in conjunction with Multi-Function rack for small items.

Vision Multi-Function Racks:

- For Small Items; is designed to hold small basins, small bowls, light handles, glass cups, etc. Rack can be placed on any level of the two- or three-level Vision Manifold rack.
- For Large Items; is designed to hold trays, basins, bowls, theatre shoes, baby bottles, bedpans, etc. Rack can be placed on lower level of the two-level Vision Manifold rack.

CONTROL SYSTEM

The user friendly PC control provides immediate feedback on all wash cycle critical parameters (including time, temperature, chemical injection and spray arm rotation [option required]). The Allen-Bradley SoftLogix™ PC-based control system¹ monitors and controls washer/disinfector operations and functions while also monitoring washer/disinfector current status (including current chamber temperature and time remaining in phase).

The control system offers four operation modes: Ready, Cycle, Supervisor and Service. The Supervisor and Service modes are password protected while Ready and Cycle modes are always available.

Washer/disinfector is equipped with two control system touch screens: one on the load side and the other on the unload side.

1. SoftLogix™ is a trademark of Allen-Bradley, a Rockwell Automation Company.

Identical information is displayed on both touch screens. These screens are touch-sensitive color graphics screens. The operator can only silence the buzzer and open or close the unload door using the unload side touch screen. Other actions are performed using load side touch screen.

An audible warning system is provided to alert the operator when necessary.

Each cycle program is operator adjustable to meet specific processing needs. Cycle programming is protected by security access code set by supervisor.

The control system features preprogrammed temperature ranges for each cycle. If the operator selects an out-of-range temperature setting when modifying the cycle values, the control system alerts the operator with a message and halts further operation until the correct value is entered.

CONTROL VALUE SETTINGS

Supervisor-adjustable control settings:

- **Supervisor management** – configures the Supervisor name and password.
- **Cycle management** – edits cycle name and cycle parameter and also allows cycle selection.
- **Cycle description** – changes the name, icon and description of the current selected cycle.
- **Parameters** – changes the different cycle parameters.
- **Setup** – adjusts the washer/disinfector setup options.
- **Time set** – sets current time of day for displays and printouts.
- **Date set** – sets current date for displays/printouts.
- **Printer enabled** – enables the printer.
- **Hospital name** – modifies hospital name.
- **Department name** – modifies department name.
- **Chemical pump name** – modifies the name of all chemical pumps.
- **Temperature/pressure units** – selects the temperature unit as well as pressure units.
- **Control enhancement system (option)** – modifies control enhancement system parameters.
- **PDVS (option)** – modifies PDVS parameters.

INSTALLATION

The Reliance Vision Single-Chamber Washer/Disinfector is designed to be a freestanding unit. The minimum clearance between the finished floor and the ceiling is 94" (2388 mm). Once installed, the washer/disinfector is designed for easy access for maintenance purposes.

PREVENTIVE MAINTENANCE

Customers are encouraged to contact STERIS concerning annual maintenance programs. Under the terms of these programs, 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. Customers must ensure the washer/disinfector stands on a level, noncombustible floor.
2. STERIS recommends shutoff valves and vacuum breakers (not provided by STERIS) be installed on service lines.
3. STERIS recommends the illumination of the service area along with providing a convenience outlet for maintenance.
4. Clearances shown are minimal for installing and servicing the washer/disinfector.
5. Always follow local electrical codes and safety-related work practices for wiring.

UTILITY REQUIREMENTS

Important: Refer to equipment drawing 920-508-564 for details.

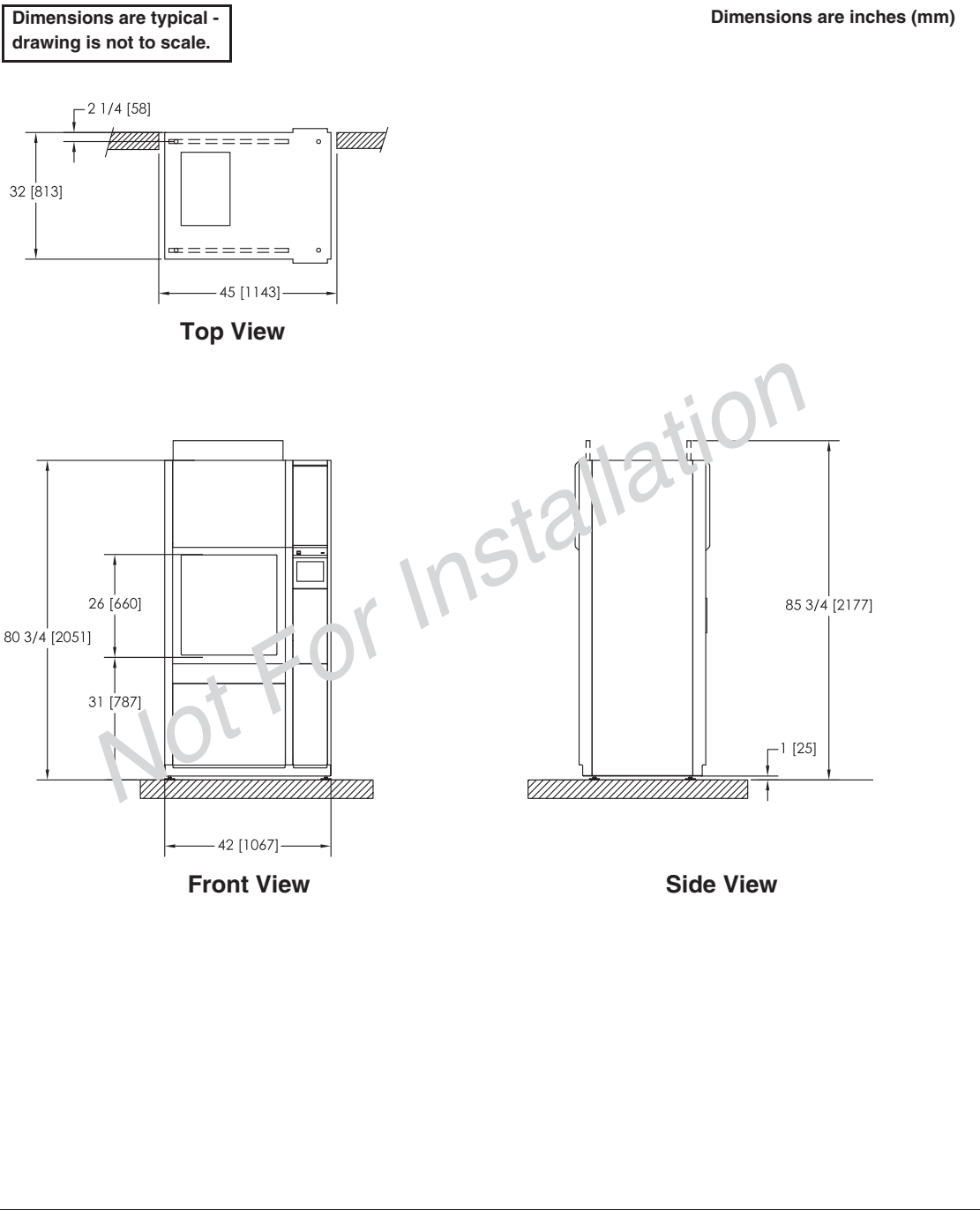
Telecommunications Requirements for ProConnect Response Center


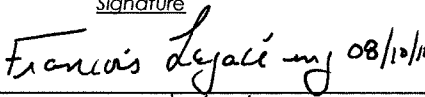
- An active wired or wireless TCP/IP network, 10/100BaseT Ethernet connection at each piece of connected equipment, Internet access and an IP address on the facility network.
- 5 GB of available hard drive space to run the service agent. Can be installed on:
 - » Dedicated PC running Windows XP with 2.8GHz processor, 512MB of RAM
 - » Virtual Machine
 - » Server
- Local STERIS login at the PC with a username of STERIS and the password should be ProConnect (STERIS Customer Number).
- Ethernet cable to connect each piece of STERIS equipment and the dedicated PC to the facility network.
- 110V power receptacle at each piece of connected equipment.

CUSTOMER IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE LOCAL AND NATIONAL CODES AND REGULATIONS.

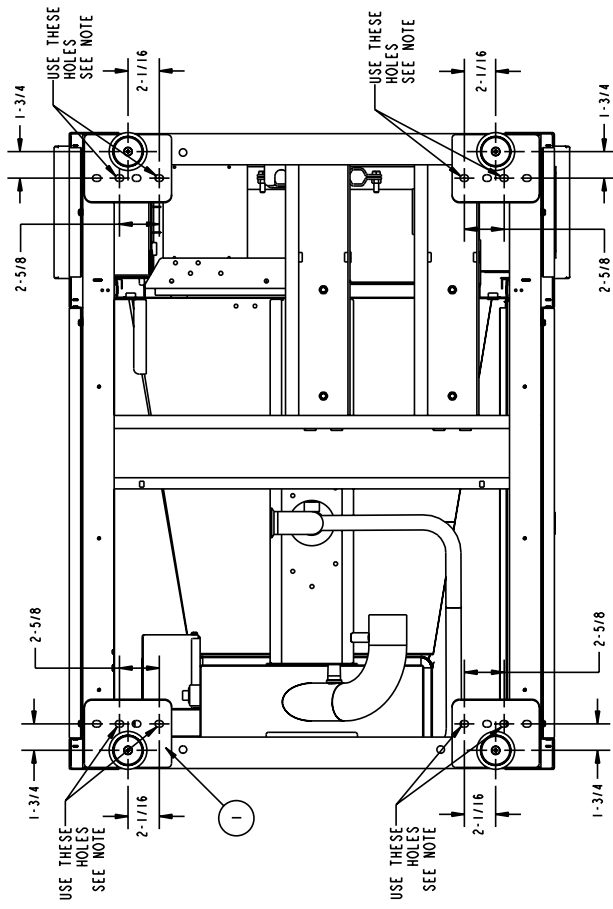
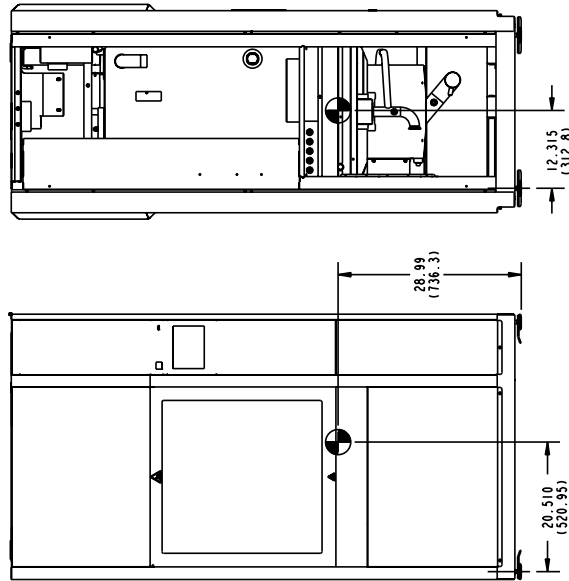
The base language of this document is ENGLISH. Any translations must be made from the base language document.

Refer to the Following Equipment Drawing for Installation Details	
Equipment Drawing Part Number	Equipment Drawing Title
920-508-564	Reliance® Hamo® Vision® Single Chamber Washer/Disinfector

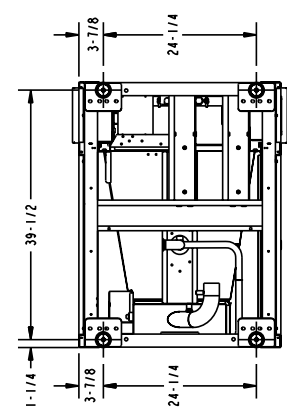


 <p>Corporation STERIS Canada STERIS Canada Corporation</p>		Document N ^o . 920-512-972	Modèle/Model Reliance® Vision™ Single-Chamber Washer/Disinfector HAMO® Vision™ Single-Chamber Washer/Disinfector
Type de document/Document Type Seismic Report		Titre/Title Seismic Anchorage Report	
No. rév./ Rev No.	Date rév/ Rev. Date	HISTORIQUE DES CHANGEMENTS / HISTORY CHANGES	
0	2008-10-10	New Document	G.V.
Revu et approuvé par/Reviewed and Approved by:			
Nom/Name François Lagacé, ing. Engineering Manager, R&D Department		Signature 	
DISTRIBUTION:			PRÉPARÉ PAR/PREPARED BY: Guillaume Voyer ing. jr.
<small>QAF-0504-02</small>		<small>Rev: 3</small>	
		<small>1998-12-10</small>	

REF.	QTY.	NUMBER	DESCRIPTION	STEP #	2
		FD76-300	SEISMIC TIE-DOWN KIT	ASN #	FD16-300-PP



NOTE : USE $\varnothing 3/8$ " BOLTS .





EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING
 2801 Connery Way, Suite B
 Missoula, MT 59808
 Phn: (406) 541-EASE (3273) Fax: (406) 541-3274

P E N D I N G Sheet 1 of 4

Office of Statewide Health Planning and Development
 ANCHORAGE PRE-APPROVAL

OPA-2057-07

Equipment Manufacturer: Steris Corporation

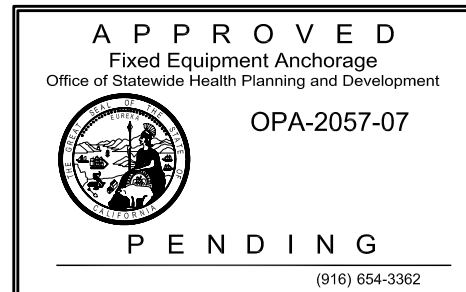
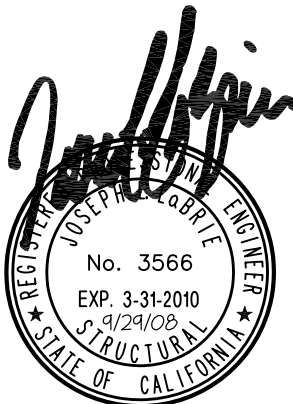
Equipment Type: Vision SC Cabinet

GENERAL NOTES

1. EXPANSION ANCHORS:
 - (a) ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

Anchor Diameter	Concrete Type	Min. f _c (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Test Loads
3/8"	Hardrock	2500	Hilti Kwik Bolt TZ	ESR-1917	2"	6"	9"	4"	Direct Pull Tension - 1580 lbs

2. TESTING OF EXPANSION ANCHORS PER 2007 CBC, 1916A-8 : TENSION TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO OSHPD
 - (a) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, DIRECT PULL TENSION TEST AT LEAST 50% OF THE ANCHORS.
 - (b) ACCEPTANCE CRITERIA: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE TEST LOAD. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER BECOMES LOOSE.
 - (c) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.





P E N D I N G Sheet 2 of 4

Office of Statewide Health Planning and Development
ANCHORAGE PRE-APPROVAL

OPA-2057-07

Equipment Manufacturer: Steris Corporation

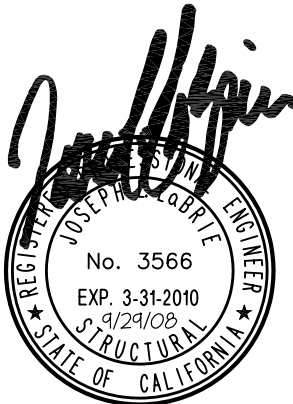
Equipment Type: Vision SC Cabinet

GENERAL NOTES (CONTINUED)

- 3. FORCES PER ASCE 7-05 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE $S_{DS} = 1.93$, $a_p = 1.0$, $I_p = 1.5$ & $R_p = 2.5$
- 4. THIS PRE-APPROVAL CONFORMS TO THE 2007 CALIFORNIA BUILDING CODE.
- 5. THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY LOCATION IN THE STATE OF CALIFORNIA.
THE ELEVATED FLOOR DETAILS MAY BE USED AT ANY HEIGHT IN A BUILDING.
- 6. ALL ANCHOR FORCES SHOWN ON THE DRAWINGS ARE WORKING LOADS (AS OPPOSED TO STRENGTH LEVEL LOADS)
AND MAY BE USED FOR ALLOWABLE STRESS DESIGN.
- 7. PER CAN 2-1708A.5, THIS UNIT DOES NOT REQUIRE "SPECIAL SEISMIC CERTIFICATION".

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD

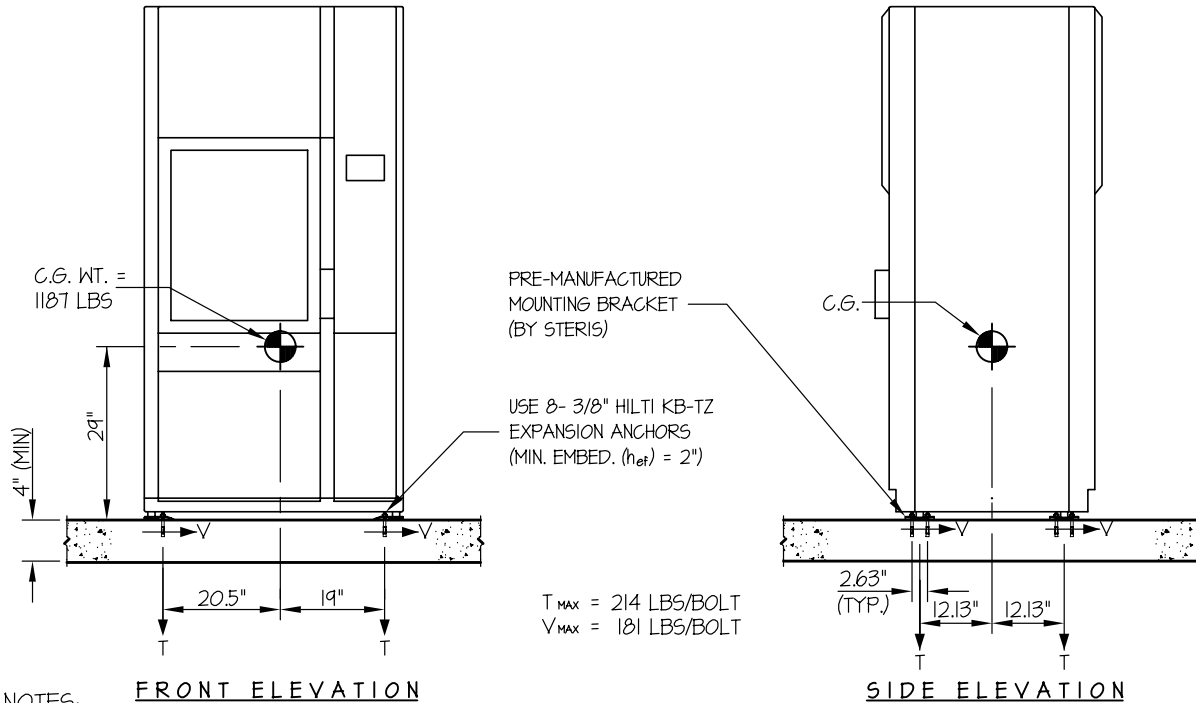
- 8. VERIFY THAT THE CONCRETE SLAB WHICH THE EQUIPMENT IS ANCHORED TO IS NOT CRACKED.
- 9. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS.
- 10. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY NEW OR EXISTING ANCHORS.
- 11. DESIGN BACKING BARS, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS.
THE SEOR SHALL ALSO VERIFY THE ADEQUACY OF THE STRUCTURES (SUCH AS WALLS AND FLOORS)
WHICH SUPPORT THE UNITS FOR THE LOADS IMPOSED ON THEM BY THE UNITS AS WELL AS ALL OTHER LOADS.
- 12. PROVIDE ANY SUPPORTING STRUCTURE REQUIRED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
- 13. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2007 CBC AND WITH THE DETAILS SHOWN IN THIS PRE-APPROVAL.
VERIFY THAT THE ACTUAL EQUIPMENT'S WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND
GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.



EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.equipmentanchorage.com		
STERIS CORPORATION	DES. R. LA BRIE	SHEET 3
VISION SC CABINET	JOB NO. 14-0818	OF 4 SHEETS
	DATE 9/29/08	

SEISMIC ANCHORAGE

P E N D I N G SLAB ON GRADE



NOTES:

FRONT ELEVATION

SIDE ELEVATION

1. ANCHORAGE DESIGN PER 2007 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13. ALLOWABLE STRESS DESIGN IS USED.
 $HORIZONTAL\ FORCE\ (E_h) = 0.61 W_p (S_{DS} = 1.93, a_p = 1.0, I_p = 1.5, R_p = 2.5)$
 $VERTICAL\ FORCE\ (E_v) = 0.27 W_p$
2. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
3. ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
4. SEE GENERAL NOTES: SHEETS 1-2

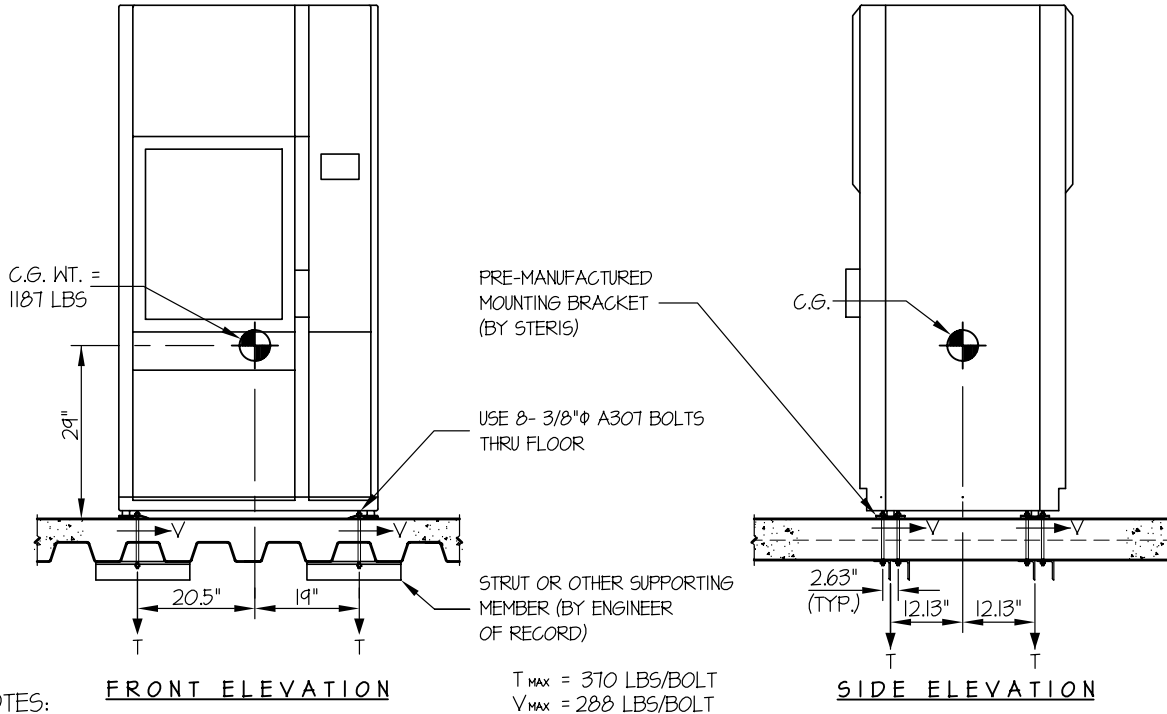


A P P R O V E D	
Fixed Equipment Anchorage Office of Statewide Health Planning and Development	
	OPA-2057-07
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STERIS CORPORATION VISION SC CABINET	DES. R. LA BRIE	SHEET 4 OF 4 SHEETS
	JOB NO. 14-0818	
	DATE 9/29/08	

SEISMIC ANCHORAGE

P E N D I N G ELEVATED FLOOR



NOTES:

- ANCHORAGE DESIGN PER 2007 CALIFORNIA BUILDING CODE - SECTION 1613A AND HAVE BEEN FACTORED TO REPRESENT WORKING DESIGN LOADS, NOT ULTIMATE.
 HORIZONTAL FORCE (E_H) = $0.97 W_p (S_{DS} = 1.93, a_p = 1.0, I_p = 1.5, R_p = 2.5)$
 VERTICAL FORCE (E_v) = $0.27 W_p$
- CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
- SEE GENERAL NOTES: SHEETS I-2



A P P R O V E D Fixed Equipment Anchorage Office of Statewide Health Planning and Development	
	OPA-2057-07
P E N D I N G	
(916) 654-3362	



Cut Sheet Summary

GBA Id **28658**

Item **Clean Up Counter, 3 Sink**

Manufacturer **Steris**

Model **CC3110635AH**

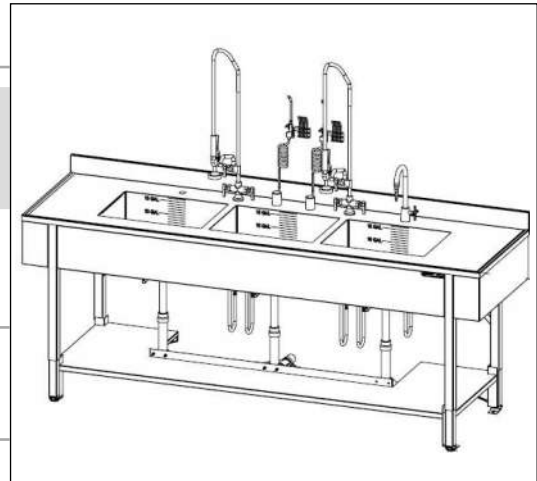


Image shown may vary in color or finish from actual item to be purchased.

Physical	Electrical	Plumbing/Mechanical	Responsibilities
Height ("):	42.00	<input type="checkbox"/> Medical Gas	Furnished by: Owner
Width ("):	106.00	<input checked="" type="checkbox"/> Compressed Air	New Install: Contractor
Depth ("):	31.00	<input type="checkbox"/> External Exhaust	Existing Install: N/A
Weight (lb):	493	<input type="checkbox"/> Ventilation	Deinstall/Move: N/A
Operating Wt (lb):		<input type="checkbox"/> Building Steam	<input checked="" type="checkbox"/> Contractor Rough-In
Installation / Placement			
Placement:		<input type="checkbox"/> Integral Steam Generator	Notes
Freestanding		<input checked="" type="checkbox"/> Cold Water	
<input type="checkbox"/> Component System		<input checked="" type="checkbox"/> Hot Water	<input checked="" type="checkbox"/> Critical Path Item
Seismic Anchorage			
Type:		<input checked="" type="checkbox"/> Treated Water	<input type="checkbox"/> Refer to Vendor Dwg
Pre-apprvl #:		<input checked="" type="checkbox"/> Drain	<input checked="" type="checkbox"/> See Mfgr Cut Sheets
		BTUs/Hr:	<input checked="" type="checkbox"/> Dimensions may be rounded; see vendor sheets
			N/A Responsibilities = No Qty (New /Existing)

Comments:

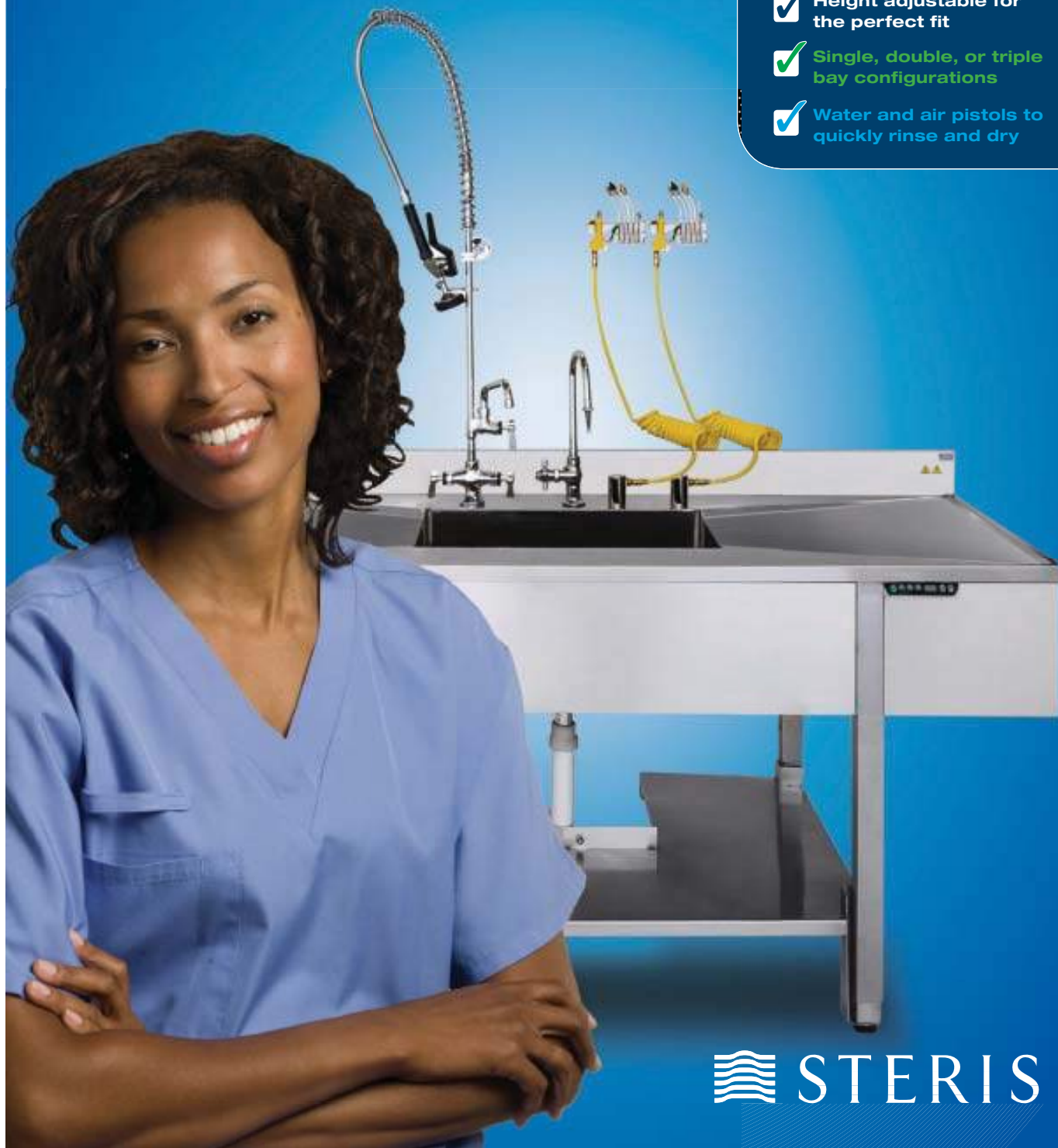
The information provided on this summary sheet is based on the data contained on the manufacturer cut sheet(s) that follow. It is the responsibility of the recipient to review the manufacturer's cut sheets for complete information. All specifications included in this document are subject to change without notice by the manufacturer.



Designed with You in Mind

SPD Accessories: Clean-Up Sinks

- ✓ Height adjustable for the perfect fit
- ✓ Single, double, or triple bay configurations
- ✓ Water and air pistols to quickly rinse and dry



 **STERIS**

Enhance your manual cleaning process with STERIS Clean-Up Sinks. Designed with workflow and ergonomics in mind, STERIS sinks include the accessories that simplify the manual cleaning process and streamline workflow.

Options to Fit Your Needs:



- Single, double, or triple bay configurations



- Stationary or height adjustable for the perfect fit

Sinks come standard with:



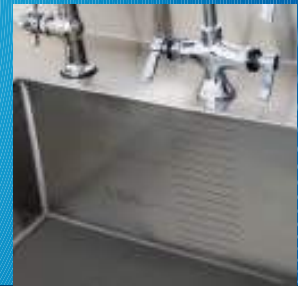
- Hot and cold mounted deck pre-rinse that provide cleaning flexibility



- Reverse osmosis water faucets that meet manual cleaning standards



- Water and air pistols to quickly rinse and dry



- Etched gallon indicators to aid in accurate mixing of detergents and chemicals



Say goodbye to the variability and waste of manual dispensing with Acu-slnQ Enzymatic Dosing System. Its electronically controlled peristaltic pump dispenses the optimal amount of chemistry.

STERIS offers the most comprehensive and innovative solutions in the industry. From the surgical floor to sterile processing and the G.I. suite, we focus on creating environments that provide the best information, quality and productivity to help achieve complete alignment between your SPD and OR.

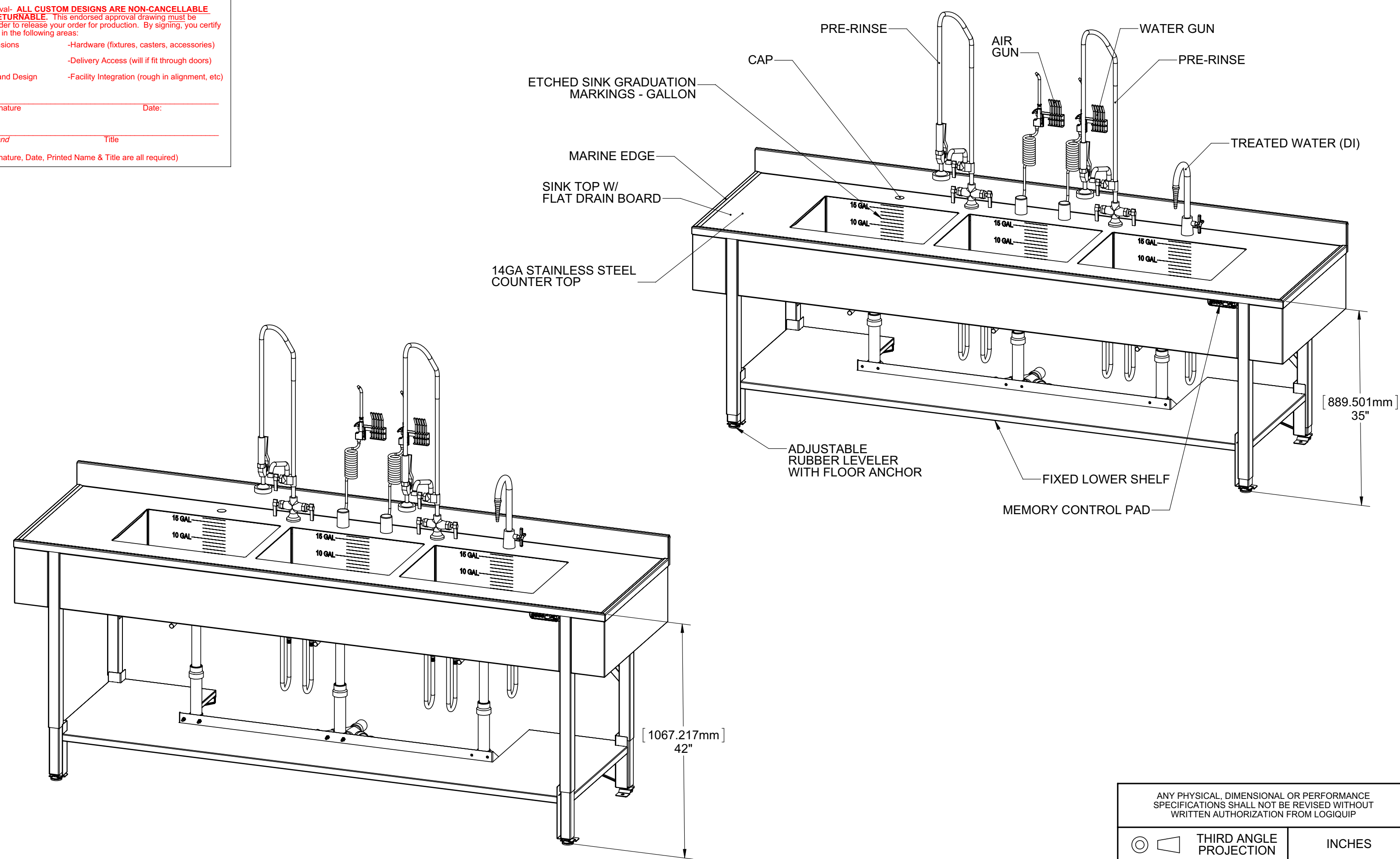


STERIS Corporation
5960 Heisley Road
Mentor, OH 44060-1834 ■ USA
440-354-2600 ■ 800-548-4873
www.steris.com

Design Approval- ALL CUSTOM DESIGNS ARE NON-CANCELLABLE AND NON-RETURNABLE. This endorsed approval drawing must be received in order to release your order for production. By signing, you certify your approval in the following areas:

- Overall Dimensions
- Material
- Construction and Design
- Hardware (fixtures, casters, accessories)
- Delivery Access (will it fit through doors)
- Facility Integration (rough in alignment, etc)

Approval Signature _____ Date: _____
 Print Name and Title _____
 (Signature, Date, Printed Name & Title are all required)



REV.	DESCRIPTION	CHANGED BY:	DATE
REVISIONS			

- NOTES:
- 1) PRE-RINSE FAUCET: (KN50-1000-AF2) GOOSE NECK WITH BUILT IN PRE-RINSE INLET - 1/2" NPSM MALE WITH COMPRESSION FITTINGS OPERATING PRESSURE 20-125 PSI OPERATING TEMP RANGE 40-180 DEG. F
 - 2) UTILITY REQUIREMENT COLD WATER - 20 TO 50 PSIG 70 DEG. F MAX HOT WATER - 20 TO 50 PSIG 120 DEG. F TO 140 DEG. F
 - 3) SINK DRAIN: SINK OPENING DIA.: 3-1/2" NPS: 1-1/2" FACE FLANGE DIA.: 4-1/2"
 - 4) AIR GUN WITH STANDARD 5 TIP GUN & HOSE MCMASTER 3321K3 & 54635K1
 - 5) AIR INLET: WATER SAVER BI131 WITH BI136-02-08R

- 6) 300 SERIES STAINLESS STEEL
- 7) WELDED CONSTRUCTION
- 8) LINEAR UNIT : CONSISTING OF CYLINDER AND A LINEAR GUIDE. LOAD MAX 1.500 N PER CYLINDER LIFT LENGTH UP TO 300 MM (11.82")
- 9) PUMP: MAX LOAD: 1.000 KG MAXIMUM LIFT SPEED WITH ELECTRIC MOTOR 30 MM/S (1.18"/S)
- 10) ELECTRIC DRIVE: SYSTEM VOLTAGE: 230/110 VAC ENGINE VOLTAGE: 29 VDC NOMINAL RATING APPROX: 140VA NOMINAL SPEED 120 MIN-1 OVERLOAD PROTECTION

ANY PHYSICAL, DIMENSIONAL OR PERFORMANCE SPECIFICATIONS SHALL NOT BE REVISED WITHOUT WRITTEN AUTHORIZATION FROM LOGIQUIP

THIRD ANGLE PROJECTION INCHES

CRITICAL TO QUALITY ◇ Weight (pounds) 492.92

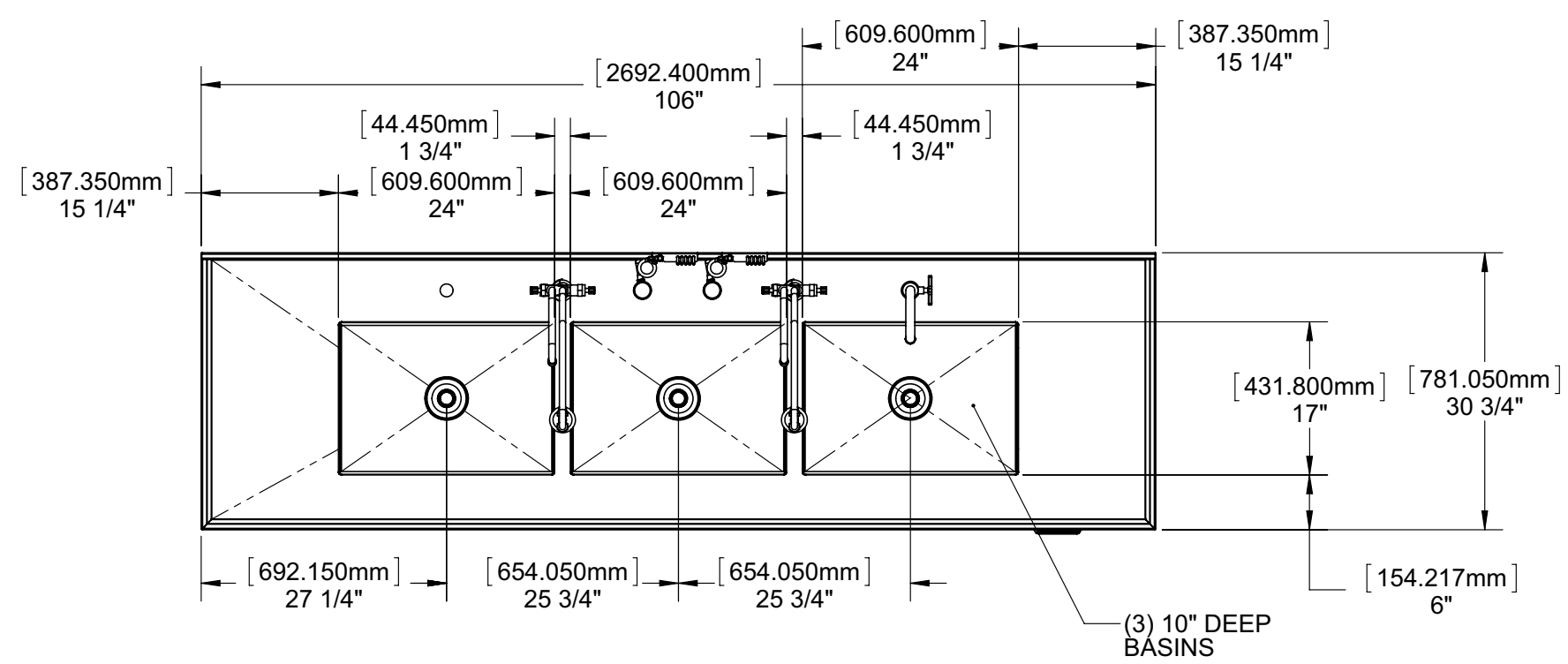
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 ADJ. HEIGHT PROCESSING TRIPLE SINK 30.75" X 106" X 35-42"

TOLERANCES UNLESS OTHERWISE SPECIFIED

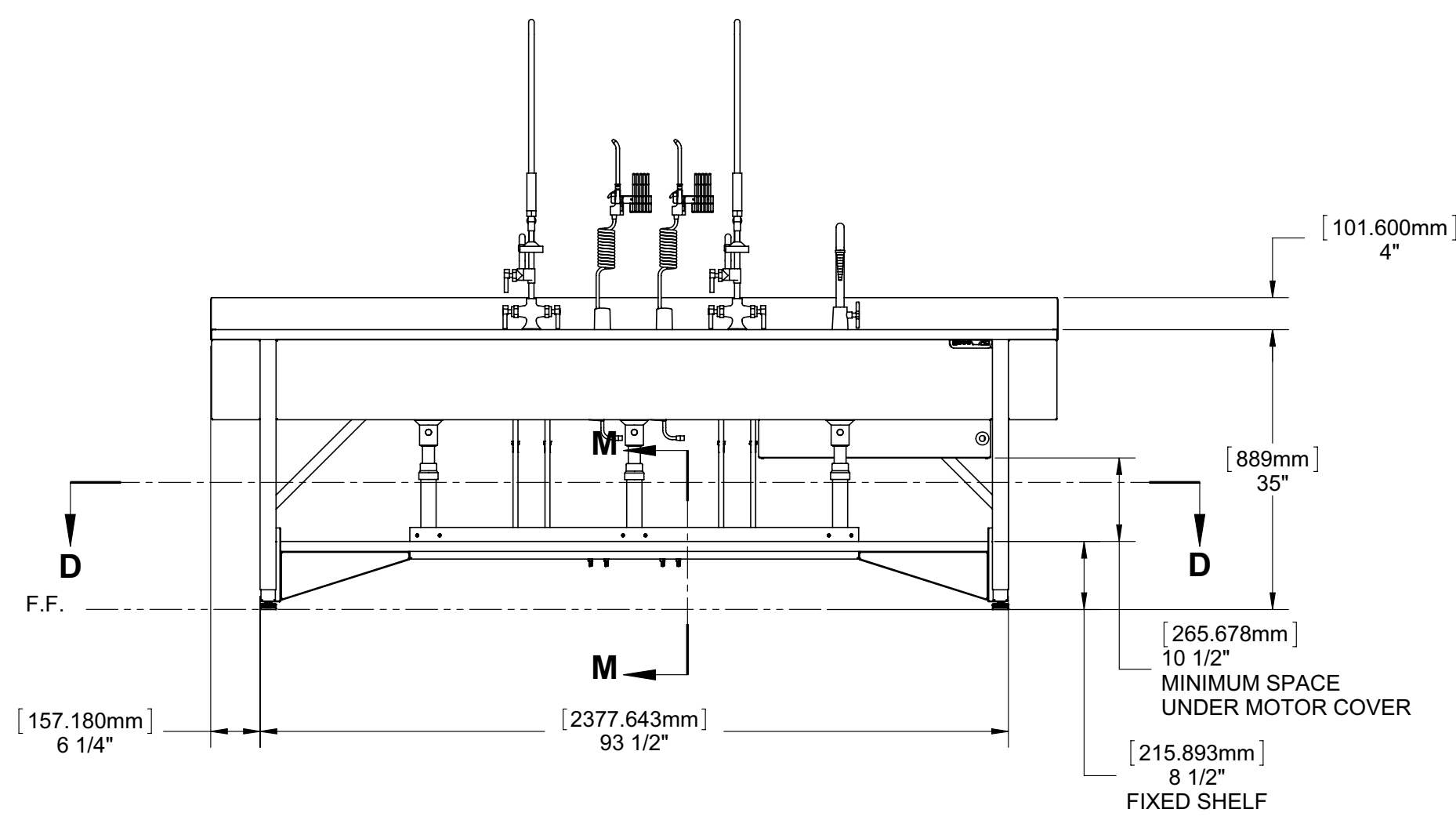
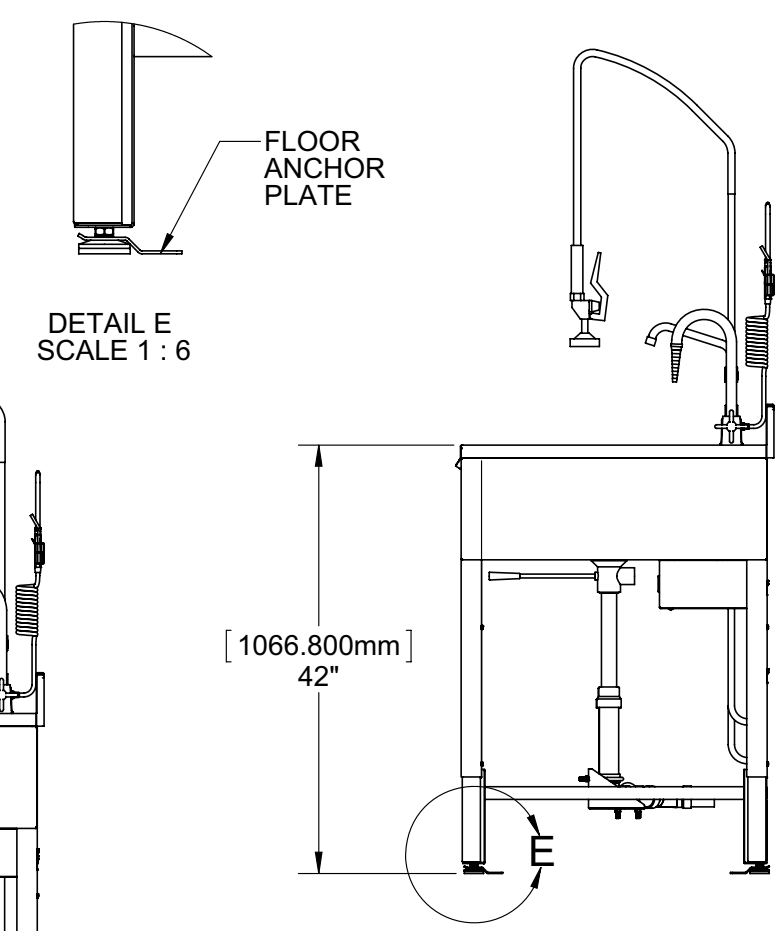
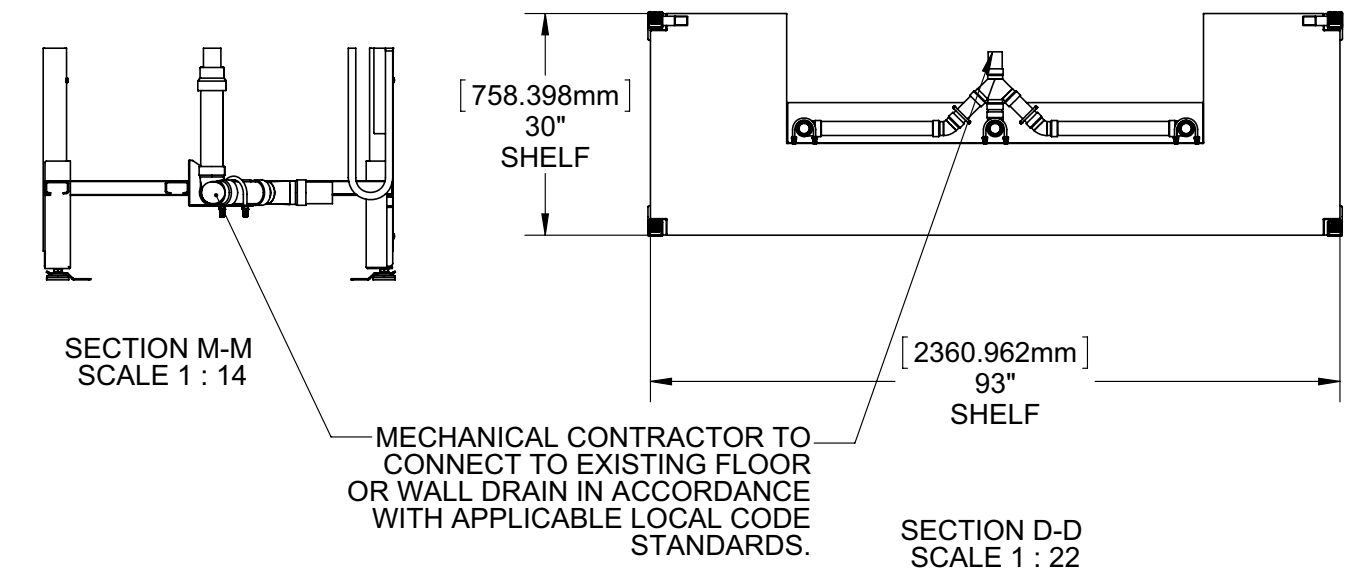
ANGLES: ±1° DECIMALS .XX = ± .030
 FRACTIONS: ± 1/64 .XXX = ± .015
 .XXXX = ± .005

DRAWN BY	DATE
CHECKED BY	DATE
SCALE NTS	SHEET 1 OF 3

DRAWING NUMBER
PS-3110635-AH-PG3



RECOMMENDED TO HAVE 7/8" CLEARANCE SPACE AROUND SINK (SIDES AND BACK)



- NOTES:
- 1) PRE-RINSE FAUCET: (KN50-1000-AF2) GOOSE NECK WITH BUILT IN PRE-RINSE INLET - 1/2" NPSM MALE WITH COMPRESSION FITTINGS OPERATING PRESSURE 20-125 PSI OPERATING TEMP RANGE 40-180 DEG. F
 - 2) UTILITY REQUIREMENT COLD WATER - 20 TO 50 PSIG 70 DEG. F MAX HOT WATER - 20 TO 50 PSIG 120 DEG. F TO 140 DEG. F
 - 3) SINK DRAIN: SINK OPENING DIA.: 3-1/2" NPS: 1-1/2" FACE FLANGE DIA.: 4-1/2"
 - 4) AIR GUN WITH STANDARD 5 TIP GUN & HOSE MCMASTER 3321K3 & 54635K1
 - 5) AIR INLET: WATER SAVER B1131 WITH B1136-02-08R

- 6) 300 SERIES STAINLESS STEEL
- 7) WELDED CONSTRUCTION
- 8) LINEAR UNIT : CONSISTING OF CYLINDER AND A LINEAR GUIDE. LOAD MAX 1,500 N PER CYLINDER LIFT LENGTH UP TO 300 MM (11.82")
- 9) PUMP: MAX LOAD: 1,000 KG MAXIMUM LIFT SPEED WITH ELECTRIC MOTOR 30 MM/S (1.18"/S)
- 10) ELECTRIC DRIVE: SYSTEM VOLTAGE: 230/110 VAC ENGINE VOLTAGE: 29 VDC NOMINAL RATING APPROX: 140VA NOMINAL SPEED 120 MIN-1 OVERLOAD PROTECTION

REV.	DESCRIPTION	CHANGED BY:	DATE
REVISIONS			

ANY PHYSICAL, DIMENSIONAL OR PERFORMANCE SPECIFICATIONS SHALL NOT BE REVISED WITHOUT WRITTEN AUTHORIZATION FROM LOGIQUIP

THIRD ANGLE PROJECTION INCHES

CRITICAL TO QUALITY C Weight (pounds) 492.92

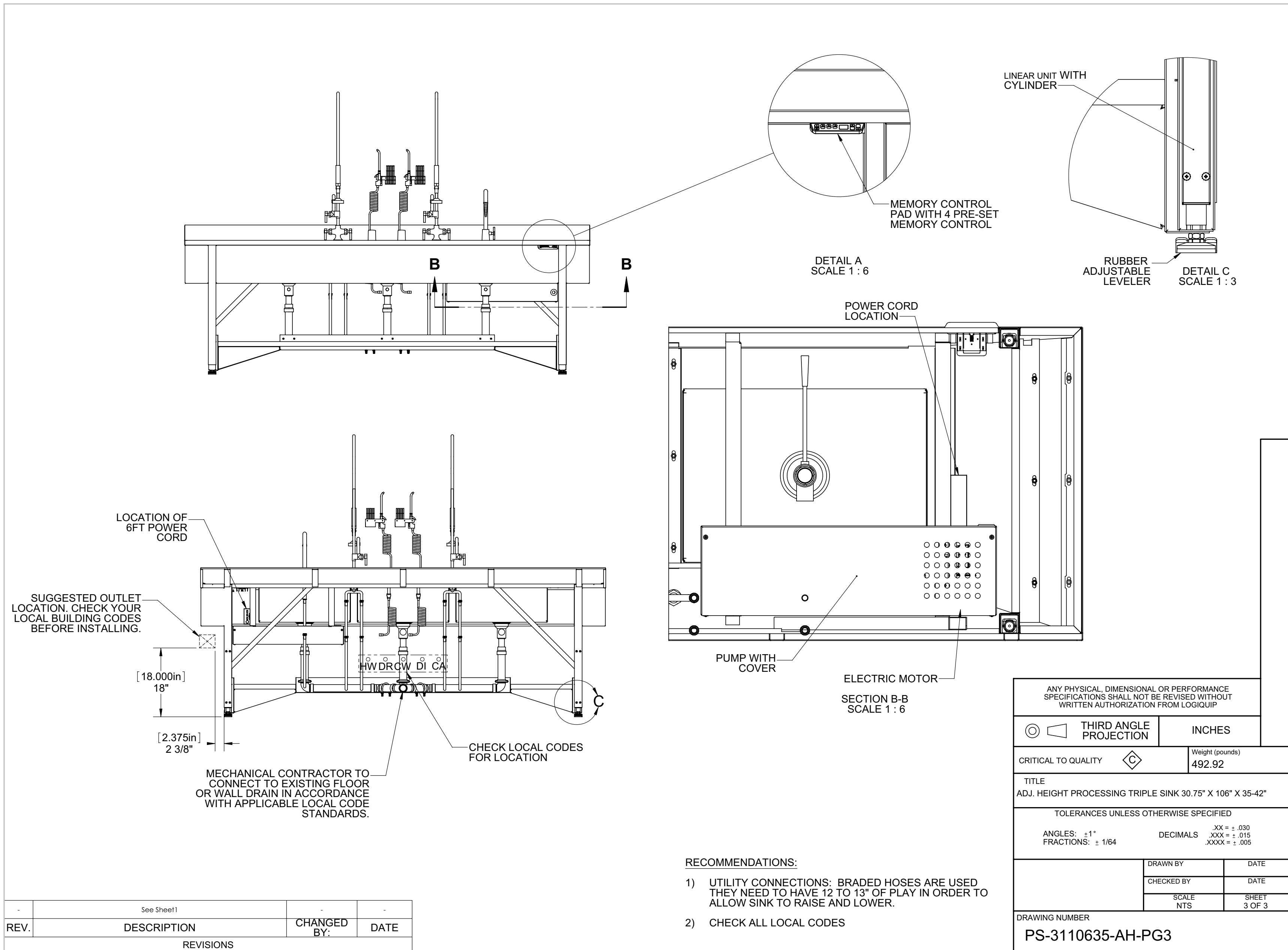
TITLE
ADJ. HEIGHT PROCESSING TRIPLE SINK 30.75" X 106" X 35-42"

TOLERANCES UNLESS OTHERWISE SPECIFIED

ANGLES: ±1° DECIMALS .XX = ± .030
FRACTIONS: ± 1/64 .XXX = ± .015
.XXXX = ± .005

DRAWN BY	DATE
CHECKED BY	DATE
SCALE NTS	SHEET 2 OF 3

DRAWING NUMBER
PS-3110635-AH-PG3





Cut Sheet Summary

GBA Id **26370**

Item **Workstation, Prep And Pack, Worksurface 36' X 72"**

Manufacturer **Steris**

Model **ERGOSTAT**



Image shown may vary in color or finish from actual item to be purchased.

Physical	Electrical	Plumbing/Mechanical	Responsibilities
Height ("):	<input type="checkbox"/> Multiple Elec Reqs	<input type="checkbox"/> Medical Gas	Furnished by: Owner
Width ("): 72.00	Voltage: 120	<input type="checkbox"/> Compressed Air	New Install: Med Equip Vendor
Depth ("): 45.00	Hertz: 60	<input type="checkbox"/> External Exhaust	Existing Install: N/A
Weight (lb):	Phase: 1	<input type="checkbox"/> Ventilation	Deinstall/Move: N/A
Operating Wt (lb):	Amps:	<input type="checkbox"/> Building Steam	<input type="checkbox"/> Contractor Rough-In
	Watts:	<input type="checkbox"/> Integral Steam Generator	
	Volt Amps:	<input type="checkbox"/> Cold Water	
Installation / Placement	Breaker Size: 20	<input type="checkbox"/> Hot Water	Notes
Placement: Freestanding	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Treated Water	<input type="checkbox"/> Critical Path Item
<input type="checkbox"/> Component System	<input type="checkbox"/> Emergency	<input type="checkbox"/> Drain	<input type="checkbox"/> Refer to Vendor Dwg
	<input type="checkbox"/> Hard-wired <input checked="" type="checkbox"/> Power Cord	BTUs/Hr:	<input checked="" type="checkbox"/> See Mfgr Cut Sheets
Seismic Anchorage	NEMA:		<input checked="" type="checkbox"/> Dimensions may be rounded; see vendor sheets
Type: Portable	Network Connection: Wired		N/A Responsibilities = No Qty (New /Existing)
Pre-apprvl #:	<input type="checkbox"/> Cable TV		
	<input checked="" type="checkbox"/> Analog Phone Line		
	<input type="checkbox"/> Remote Alarm		

Comments:

Network, Power And Med Air Required At Each Workstation Per End User Request.

The information provided on this summary sheet is based on the data contained on the manufacturer cut sheet(s) that follow. It is the responsibility of the recipient to review the manufacturer's cut sheets for complete information. All specifications included in this document are subject to change without notice by the manufacturer.

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Ergonomic, Innovative and Flexible

ErgoStat™ Prep and Pack Workstation from STERIS®



Sterile Processing departments are critical to the success of the OR. With surgical services growing at a fast rate, perioperative staffs require a higher level of support.

The new ErgoStat Prep and Pack Workstation from STERIS is designed to meet the demanding reprocessing needs of the OR. This innovative, flexible workstation will help you with productivity, organization, infection prevention, process and workflow changes, and instrument management.

A single standard workstation will not be ergonomically correct for most of the technicians of varying height who use it. The ErgoStat workstation eliminates this problem by allowing each technician to adjust the station's height with the easy flick of a switch to meet his or her ergonomic needs.

STERIS®



26370

The ErgoStat Prep and Pack Workstation is equipped with a stainless steel surface and casters. The optional riser frame allows you to mount tackboards, dispensing rails and other components, which creates more work space. The casters allow you to move the workstations for easy cleaning and to meet your changing workflow needs.

ErgoStat Prep and Pack Workstations benefits:

- > Electric Height Adjustment – improved ergonomics will help limit staff injury - surface height range from 26 1/2" to 42 1/2"
- > Ease of Cleaning
 - Lockable casters allow the workstation to be moved for easy cleaning
 - Stainless steel surface
- > Flexible Environments
 - Three configurations to choose from
 - Workstations can be moved to meet changing workflow needs
 - Assorted accessories can be added to meet changing organization needs
- > Quality
 - Constructed of heavy-duty steel and extruded aluminum
 - Capable of handling evenly distributed loads of up to 500 lbs. (227 kg)

Three configurations to choose from:

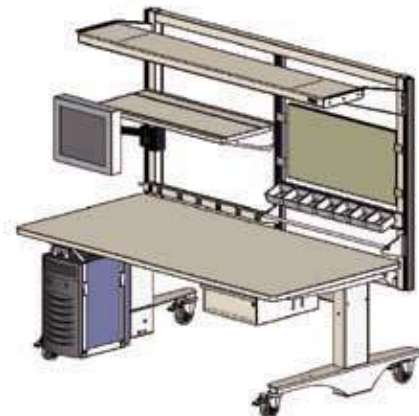
Table 1: Standard Prep and Pack Workstation



Table 2: Deluxe Prep and Pack Workstation



Table 3: Instrument Management Prep and Pack Workstation



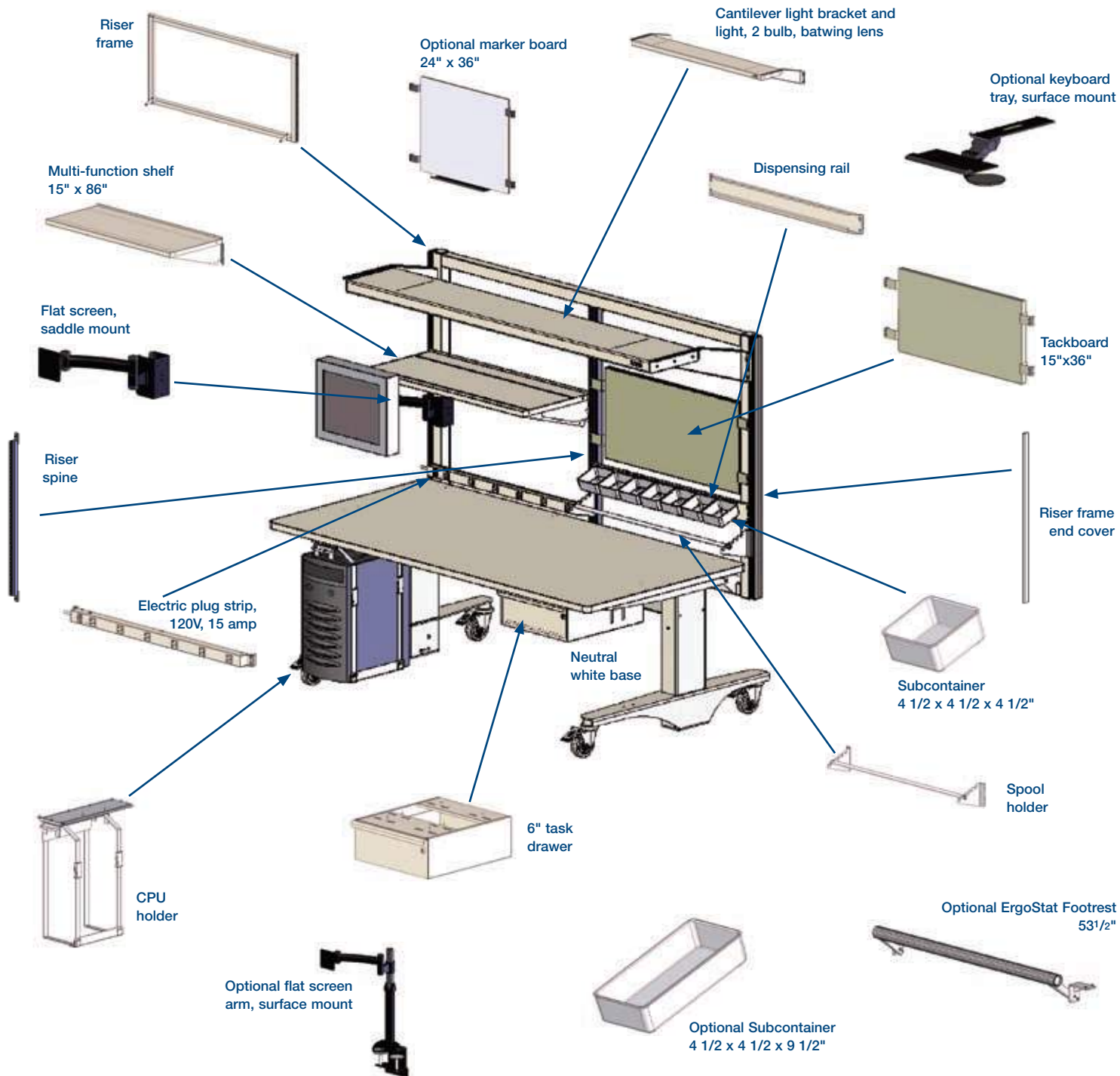
* PC and monitor not included and are provided by customer.

QTY	Descriptions	Table 1	Table 2	Table 3
1	ErgoStat Base, Electric, Casters	✓	✓	✓
1	Stainless Steel Surface, 36x72	✓	✓	✓
1	ErgoStat Riser Frame		✓	✓
2	ErgoStat Riser Frame End Covers		✓	✓
1	ErgoStat Riser Spine		✓	✓
1	Cantilever Light Bracket		✓	✓
1	Height Performance Task Light, 2 bulb		✓	✓
1	Electrical Plug Strips, 15 amp		✓	✓
1	Vertical CPU Holder			✓
1	Task Drawer, Suspended, 1-6"			✓
1	Spool Holder, 36"			✓
1	Dispensing Rail, 36"			✓
7	Subcontainers size - 4 1/2" x 4 1/2" x 4 1/2"			✓
1	15" x 36" Multi-function Shelf			✓
1	Tackboard, 15" x 36"			✓
1	Flat Screen Arm, Saddle Mount			✓

Available options: Manually positionable height adjustment and laminate table surface.

ErgoStat Accessories:

The ErgoStat Prep and Pack Workstations allow you the flexibility to upgrade and customize your configurations at any time. All components pictured below are available as optional accessories.



*Not to scale
Flat screen monitor and CPU not included

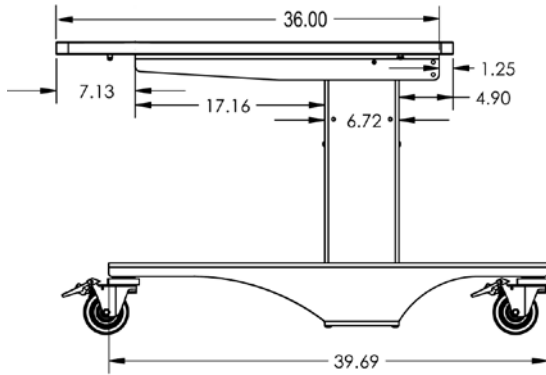
Electrical Specifications:

ErgoStat: Electric Bases are each equipped with a 120 Volt, 50/60 Hz., 3.0/2.2 Amp motor, a height Control Box with rocker switch and 8 1/2' power cord. Travel range on electric base is 1/2" per second.

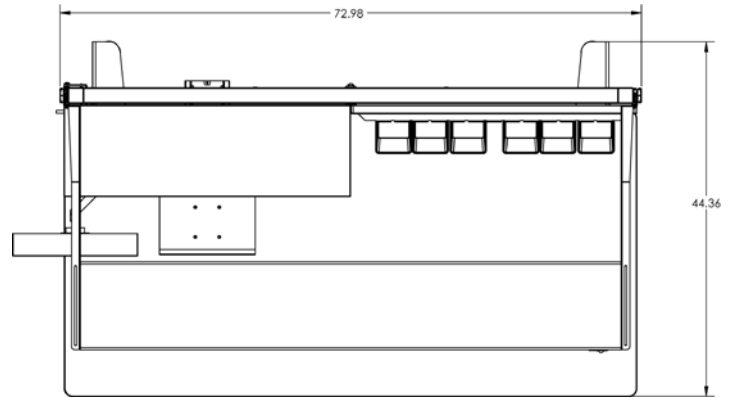
Plug Strip: Provides single circuit, 15 Amp, 120 Volt outlets. Six simplex outlets on each 36" plug strip. Each strip includes a lighted on/off switch with circuit breaker protection surrounded by a built in safety guard and an 8' power cord.

Light: Two - T8 lamps, 120 Volt, with batwing lens, and a 9' cord with rear right hand exit.

ErgoStat Dimensions:



36" deep worksurface



Aerial view

For more information call 800-548-4873 or visit our website at www.steris.com

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Singapore	65 68 41 7677
Spain	34 91 658 5920
United Kingdom	44 1256 840400

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Technologies to Prevent Infection and Contamination™



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 Mentor, OH 44060-1834 ■ USA
 440-354-2600 ■ 800-548-4873
www.steris.com



Cut Sheet Summary

GBA Id **26399**

Item **Scanner, Bladder**

Manufacturer **MediWatch**

Model **PORTASCAN 3-D**



Image shown may vary in color or finish from actual item to be purchased.

Physical	Electrical	Plumbing/Mechanical	Responsibilities
Height ("): 55.00	<input type="checkbox"/> Multiple Elec Reqs	<input type="checkbox"/> Medical Gas	Furnished by: Owner
Width ("): 20.00	Voltage: 120	<input type="checkbox"/> Compressed Air	New Install: Owner
Depth ("): 20.00	Hertz: 60	<input type="checkbox"/> External Exhaust	Existing Install: N/A
Weight (lb):	Phase: 1	<input type="checkbox"/> Ventilation	Deinstall/ N/A
Operating Wt (lb):	Amps:	<input type="checkbox"/> Building Steam	Move: N/A
	Watts:	<input type="checkbox"/> Integral Steam Generator	<input type="checkbox"/> Contractor Rough-In
	Volt Amps:	<input type="checkbox"/> Cold Water	
Installation / Placement	Breaker Size:	<input type="checkbox"/> Hot Water	Notes
Placement: Mobile	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Treated Water	<input type="checkbox"/> Critical Path Item
<input type="checkbox"/> Component System	<input type="checkbox"/> Emergency	<input type="checkbox"/> Drain	<input type="checkbox"/> Refer to Vendor Dwg
	<input type="checkbox"/> Hard-wired <input checked="" type="checkbox"/> Power Cord	BTUs/Hr:	<input checked="" type="checkbox"/> See Mfgr Cut Sheets
Seismic Anchorage	NEMA:		<input checked="" type="checkbox"/> Dimensions may be rounded; see vendor sheets
Type: Portable	Network Connection: Wired		N/A Responsibilities = No Qty (New /Existing)
Pre-apprvl #:	<input type="checkbox"/> Cable TV		
	<input type="checkbox"/> Analog Phone Line		
	<input type="checkbox"/> Remote Alarm		

Comments:

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Cut Sheet Summary

GBA Id **25594-1**

Item **Water Treatment System - Reverse Osmosis With Deionizer**

Manufacturer **Steris**

Model **HCS-2052**



Image shown may vary in color or finish from actual item to be purchased.

Physical	Electrical	Plumbing/Mechanical	Responsibilities
Height ("): 66.00	<input type="checkbox"/> Multiple Elec Reqs	<input type="checkbox"/> Medical Gas	Furnished by: Owner
Width ("): 77.00	Voltage: 120	<input type="checkbox"/> Compressed Air	New Install: Vendor
Depth ("): 36.00	Hertz: 60	<input type="checkbox"/> External Exhaust	Existing Install: N/A
Weight (lb):	Phase: 1	<input type="checkbox"/> Ventilation	Deinstall/ Move: N/A
Operating Wt (lb): 1,548	Amps:	<input type="checkbox"/> Building Steam	<input checked="" type="checkbox"/> Contractor Rough-In
	Watts:	<input type="checkbox"/> Integral Steam Generator	
	Volt Amps:	<input checked="" type="checkbox"/> Cold Water	
Installation / Placement	Breaker Size: 20	<input type="checkbox"/> Hot Water	Notes
Placement: Freestanding	<input checked="" type="checkbox"/> Dedicated	<input type="checkbox"/> Treated Water	<input type="checkbox"/> Critical Path Item
<input type="checkbox"/> Component System	<input type="checkbox"/> Emergency	<input checked="" type="checkbox"/> Drain	<input type="checkbox"/> Refer to Vendor Dwg
	<input type="checkbox"/> Hard-wired <input checked="" type="checkbox"/> Power Cord	BTUs/Hr:	<input checked="" type="checkbox"/> See Mfgr Cut Sheets
Seismic Anchorage	NEMA:		<input checked="" type="checkbox"/> Dimensions may be rounded; see vendor sheets
Type: Floor	Network Connection:		N/A Responsibilities = No Qty (New /Existing)
Pre-apprvl #: OPA-2202-07	<input type="checkbox"/> Cable TV		
	<input type="checkbox"/> Analog Phone Line		
	<input type="checkbox"/> Remote Alarm		

Comments:

Requires Two Electrical Outlets: One 115V, 20 Amps Dedicated Circuit And One 220V, 15 Amps Dedicated Circuit. Drain: One 1-1/2" Floor Drain Or Sink. 100 Gallon Storage Tank With High Flow Pump.

The information provided on this summary sheet is based on the data contained on the manufacturer cut sheet(s) that follow. It is the responsibility of the recipient to review the manufacturer's cut sheets for complete information. All specifications included in this document are subject to change without notice by the manufacturer.

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RO2 REVERSE OSMOSIS WITH DEIONIZER, 100 GAL STORAGE TANK AND HIGH FLOW PUMP MODEL 00HCS-2052

Healthcare Water Treatment Systems Technical Data Sheet

DESCRIPTION:

Provides low conductivity water for washers, disinfectors, glassware washers, steam boilers and final rinses. Reverse osmosis system with all pretreatment on board in a PVC cabinet, a deionizer polisher, and a storage tank with demand pump package that provides up to 2,200 GPD.

FEATURES:

- Pre-carbon block filter
- Anti-scalant feed to prevent hard water scale on reverse osmosis
- Controller with conductivity of feed and product water
- Simple disinfection cycle
- Storage tank with sealed lid and pump package
- Deionizer polisher includes a 200,000 ohm-cm monitor with alarm
- Low feed pressure system shutdown / alarm
- High conductivity alarm
- Storage tank empty pump shutdown

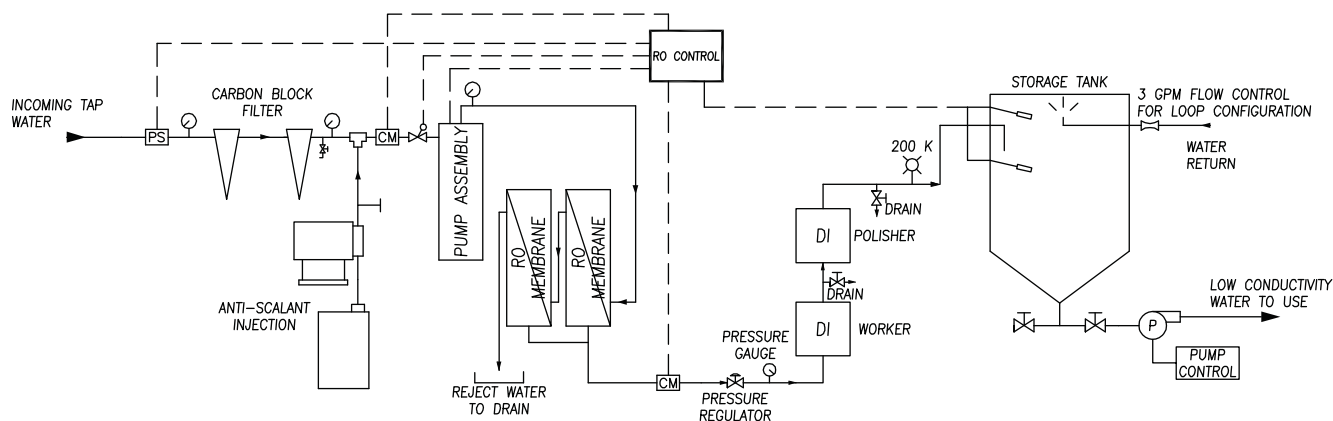
STANDARDS:

- ETL listed, conforms to UL Std 61010-1
- Certified CAN/CSA C22.2 No. 61010-1
- ISO134585 registered device
- Seismic OPA-2202-07



PRINCIPLE OF OPERATION for COMPLETE WATER TREATMENT SYSTEM:

Tap water enters the system through the filters, after which the anti-scalant chemical is pumped into the flow to the reverse osmosis pump and membranes. Product water flows to the 100 gallon storage tank, reject concentrated waste water flows to the drain (product and reject are 50% each). The demand pump runs when flow is needed and pumps the low conductivity water to the use.




STERIS Corporation
5960 Heisley Road
Mentor, OH 44060-1834 • USA
440-354-2600 • 800-548-4873
www.steris.com



**RO2 REVERSE OSMOSIS WITH DEIONIZER
100 GAL STORAGE TANK AND HIGH FLOW PUMP
MODEL 00HCS-2052**

**Healthcare Water Treatment Systems
Technical Data Sheet**

SPECIFICATIONS	
Drain	One 1-1/2" floor drain or sink
Feed Water Quality	Potable drinking water standards
Feed Water Temperature	Between 41°F - 90°F (Ideal 77°F)
Feed Water Flow Minimum	5 GPM
Feed Water Pressure Min. / Max.	20 PSI / 50 PSI
Projected Rejection	> 96%
Production Rated Capacity*	2,200 GPD / 8,328 LPD
Storage Tank (Gallons)	100
Distribution Pump Output	30 GPM @ 30 PSI
Electrical	One 115V, 20 amps dedicated circuit One 220V, 15 amps dedicated circuit
Recommended Space In. (W x D)	101 x 72
System Dimensions In. (W x D x H)	77 x 36 x 66
Weight – Shipping / Operating Lbs.	713 / 1,548

* Product flow rate varies with temperature and inlet pressure. All models are rated at 77°F with feed water of 1500 mg/l NaCl @ 55 PSI feed pressure and pH of 7.5. As a safety factor use 60% of the rated capacity when sizing or add blend valve to temper the feed water.

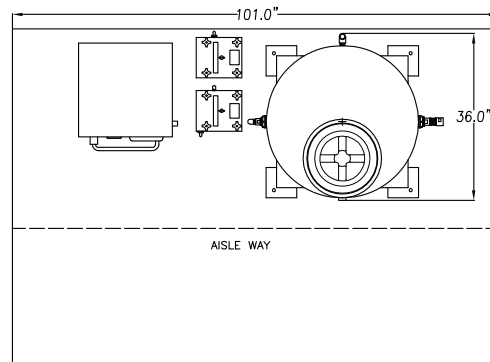
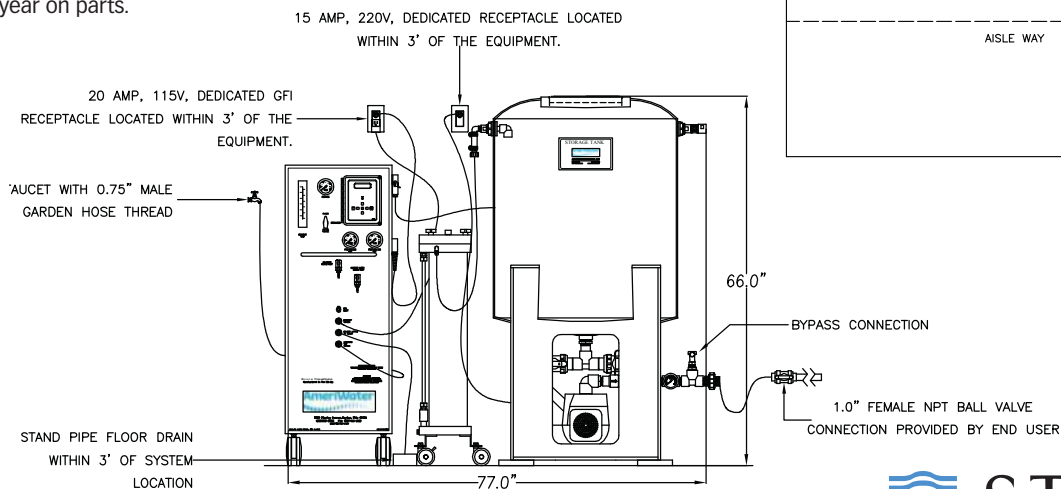
INSTALLATION:

The system can be installed with up to 50' of pipe from the use.

ACCESSORIES	
00850300	Remote alarm package
75679117	1 megohm monitor with alarm for deionizer
00HC-5001	Blend valve assembly

WARRANTY:

One year on parts.



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5960 Heisley Road
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EASE
 EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING
 2801 Connery Way, Suite B
 Missoula, MT 59808
 Phn: (406) 541-EASE (3273) Fax: (406) 541-3274

Sheet 1 of 6

Office of Statewide Health Planning and Development
 ANCHORAGE PRE-APPROVAL

OPA-2202-07

Equipment Manufacturer: AmeriWater

Equipment Type: Storage Tanks

GENERAL NOTES

1. EXPANSION ANCHORS:
 - (a) ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

Anchor Diameter	Concrete Type	Min. f _c (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Installation. Torque	Test Loads
5/8"	Hardrock	2500	Hilti Kwik Bolt TZ	ESR-1917	3-1/8"	10"	18"	5"	60 Ft-Lbs	Direct Pull Tension - 3270 lbs

2. TESTING OF EXPANSION ANCHORS PER 2007 CBC, 1916A-8 : TENSION TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO OSHPD
 - (a) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, DIRECT PULL TENSION TEST AT LEAST 50% OF THE ANCHORS.
 - (b) ACCEPTANCE CRITERIA: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE TEST LOAD. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER BECOMES LOOSE.
 - (c) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.





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Sheet 2 of 6

Office of Statewide Health Planning and Development
ANCHORAGE PRE-APPROVAL

OPA-2202-07

Equipment Manufacturer: AmeriWater

Equipment Type: Storage Tanks

GENERAL NOTES (CONTINUED)

- 3. FORCES PER ASCE 7-05 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE $S_Ds = 1.93$, $a_p = 1.0$, $I_p = 1.5$ & $R_p = 2.5$
- 4. THIS PRE-APPROVAL CONFORMS TO THE 2007 CALIFORNIA BUILDING CODE.
- 5. THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY LOCATION IN THE STATE OF CALIFORNIA.
THE ELEVATED FLOOR DETAILS MAY BE USED AT ANY HEIGHT IN A BUILDING.
- 6. ALL ANCHOR FORCES SHOWN ON THE DRAWINGS ARE WORKING LOADS (AS OPPOSED TO STRENGTH LEVEL LOADS)
AND MAY BE USED FOR ALLOWABLE STRESS DESIGN.
- 7. THIS PRE-APPROVAL COVERS THE ANCHORAGE OF THE UNIT ONLY.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD

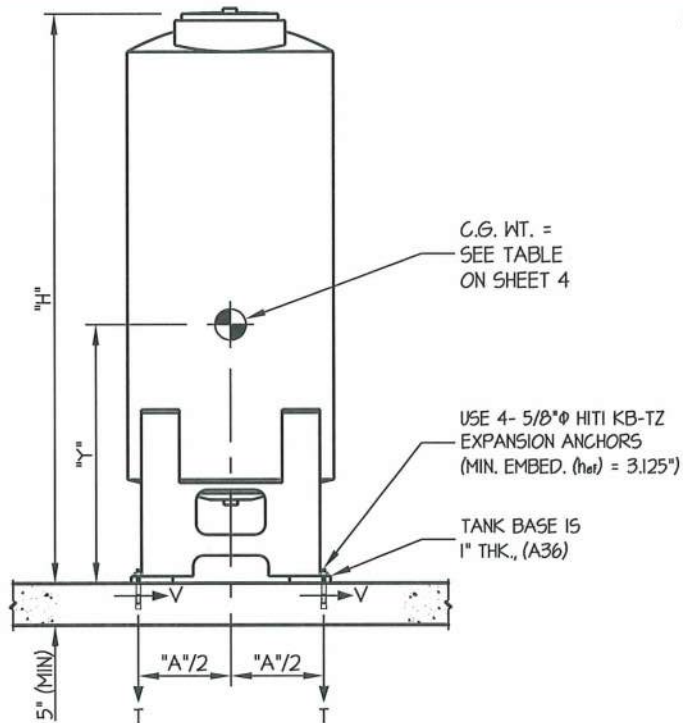
- 8. VERIFY THAT THE CONCRETE SLAB WHICH THE EQUIPMENT IS ANCHORED TO IS NOT CRACKED.
- 9. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS.
- 10. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY NEW OR EXISTING ANCHORS.
- 11. DESIGN BACKING BARS, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS.
THE SEOR SHALL ALSO VERIFY THE ADEQUACY OF THE STRUCTURES (SUCH AS WALLS AND FLOORS)
WHICH SUPPORT THE UNITS FOR THE LOADS IMPOSED ON THEM BY THE UNITS AS WELL AS ALL OTHER LOADS.
- 12. PROVIDE ANY SUPPORTING STRUCTURE REQUIRED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
- 13. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2007 CBC AND WITH THE DETAILS SHOWN IN THIS PRE-APPROVAL.
VERIFY THAT THE ACTUAL EQUIPMENT'S WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND
GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.



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AMERIWATER STORAGE TANKS	DES. R. LA BRIE	SHEET 3
	JOB NO. 11-0929	OF 6 SHEETS
	DATE 12/14/09	

SEISMIC ANCHORAGE

SLAB ON GRADE



FRONT ELEVATION

NOTES:

1. ANCHORAGE DESIGN PER 2007 CALIFORNIA BUILDING CODE - SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13. ALLOWABLE STRESS DESIGN IS USED.

HORIZONTAL FORCE (E_h) = $0.61 W_p$ ($S_{Ds} = 1.93$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 2.5$)
 VERTICAL FORCE (E_v) = $0.27 W_p$

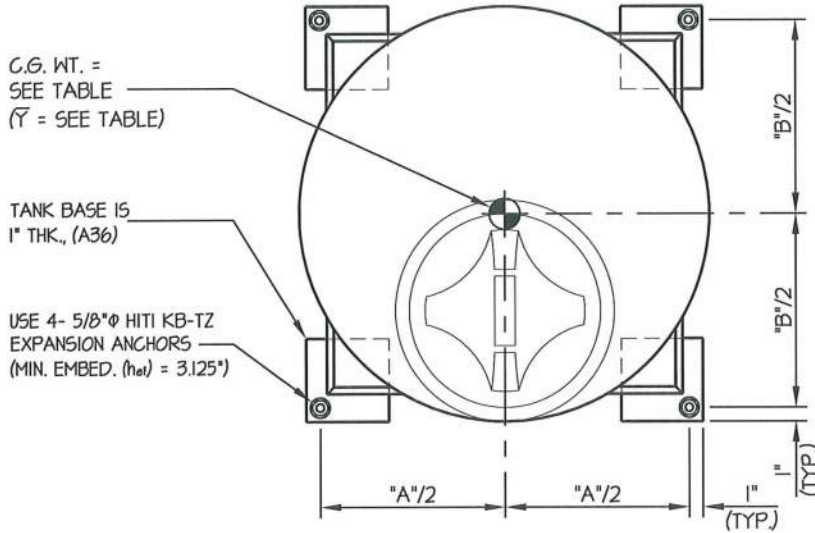
2. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
3. ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
4. SEE GENERAL NOTES: SHEETS 1-2



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AMERIWATER	DES. R. LA BRIE	SHEET 4
STORAGE TANKS	JOB NO. 11-0929	OF 6 SHEETS
	DATE 12/14/09	

SEISMIC ANCHORAGE

SLAB ON GRADE



PLAN AT BASE

EQUIPMENT NAME	WEIGHT (LBS.)	"A" (in)	"B" (in)	"Y" (in)	"H" (in)	T _{MAX} (LBS.)	T _{MAX} (LBS.)
00CT55	462	21	22	25	51	178	70
00CT100	833	29	30	26	52	239	135
00CT100 (TALL)	910	29	30	40	82	419	139
00CT200	1507	27	28	40	83	754	230



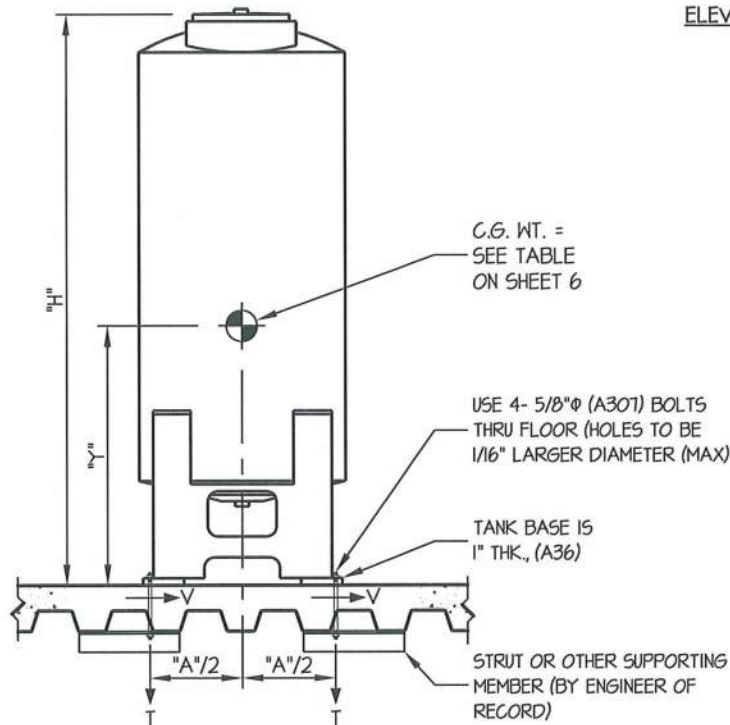
A P P R O V E D	
Fixed Equipment Anchorage	
Office of Statewide Health Planning and Development	
OPA-2202-07	
Pre-approval Program Manager: Anthony R. Pike (916) 440-8470	
 Reviewed By: <i>Jerry Yee</i>	12/14/09



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AMERIWATER STORAGE TANKS	DES. R. LA BRIE	SHEET 5
	JOB NO. 11-0929	6 OF SHEETS
	DATE 12/14/09	

SEISMIC ANCHORAGE

ELEVATED FLOOR



FRONT ELEVATION

NOTES:

1. ANCHORAGE DESIGN PER 2007 CALIFORNIA BUILDING CODE - SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13. ALLOWABLE STRESS DESIGN IS USED.

HORIZONTAL FORCE (E_h) = $0.97 W_p (S_Ds = 1.93, a_p = 1.0, I_p = 1.5, R_p = 2.5)$
 VERTICAL FORCE (E_v) = $0.27 W_p$

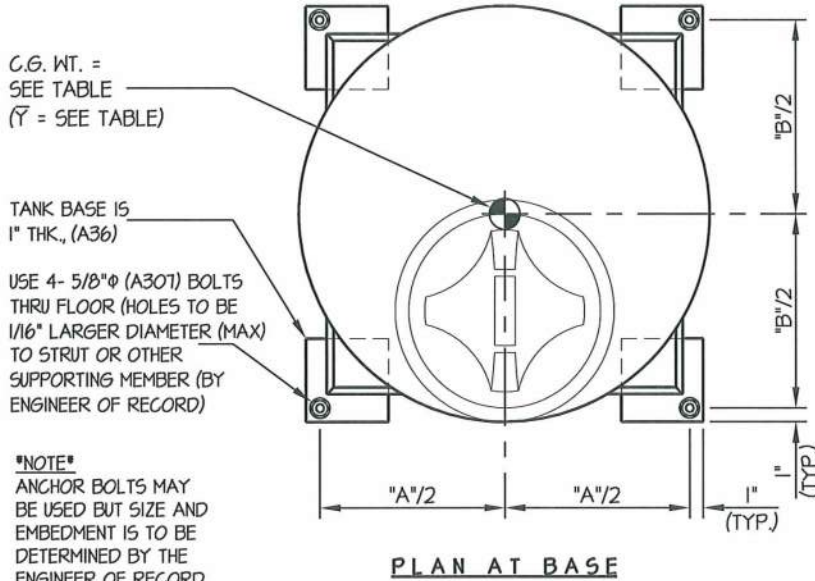
2. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
3. ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
4. SEE GENERAL NOTES: SHEETS 1-2



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AMERIWATER	DES. R. LA BRIE	SHEET 6
STORAGE TANKS	JOB NO. 11-0929	6
	DATE 12/14/09	OF 6 SHEETS

SEISMIC ANCHORAGE

ELEVATED FLOOR



EQUIPMENT NAME	WEIGHT (LBS.)	"A" (in)	"B" (in)	"Y" (in)	"H" (in)	T _{MAX} (LBS.)	T _{MAX} (LBS.)
00CT55	462	21	22	25	51	305	112
00CT100	833	29	30	26	52	422	214
00CT100 (TALL)	910	29	30	40	82	710	221
00CT200	1507	27	28	40	83	1272	365



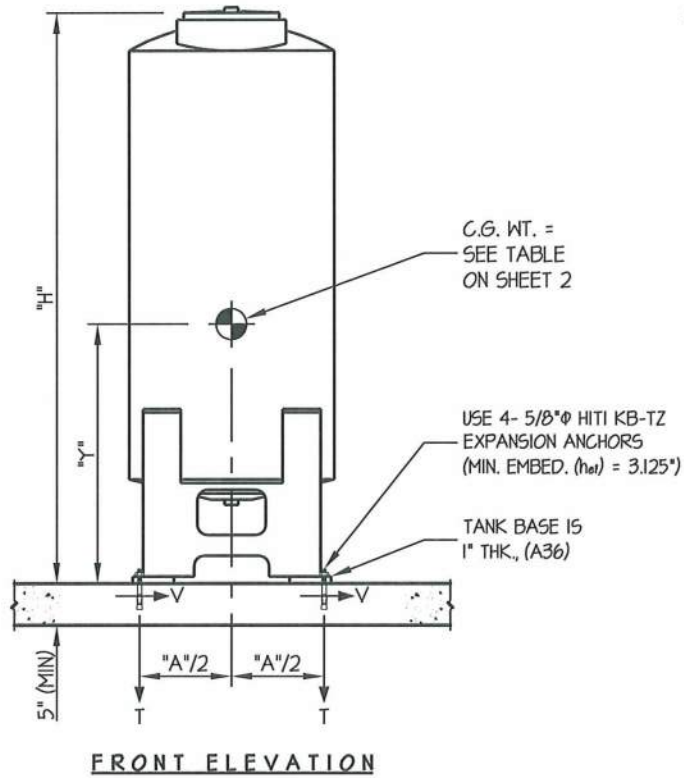
A P P R O V E D	
Fixed Equipment Anchorage Office of Statewide Health Planning and Development	
OPA-2202-07	
Pre-approval Program Manager: Anthony R. Pike (916) 440-8470	
Reviewed By: <i>Jerry Yee</i>	12/14/09



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AMERIWATER	DES. R. LA BRIE	SHEET 1
	JOB NO. 11-0929	OF 2 SHEETS
STORAGE TANKS	DATE 12/14/09	

SEISMIC ANCHORAGE

SLAB ON GRADE



NOTES:

1. FORCES ARE DETERMINED PER 2007 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13. ALLOWABLE STRESS DESIGN IS USED.

HORIZONTAL FORCE (E_h) = $0.61 W_p$ ($S_{Ds} = 1.93$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 2.5$)

VERTICAL FORCE (E_v) = $0.27 W_p$

2. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS CALCULATION ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.

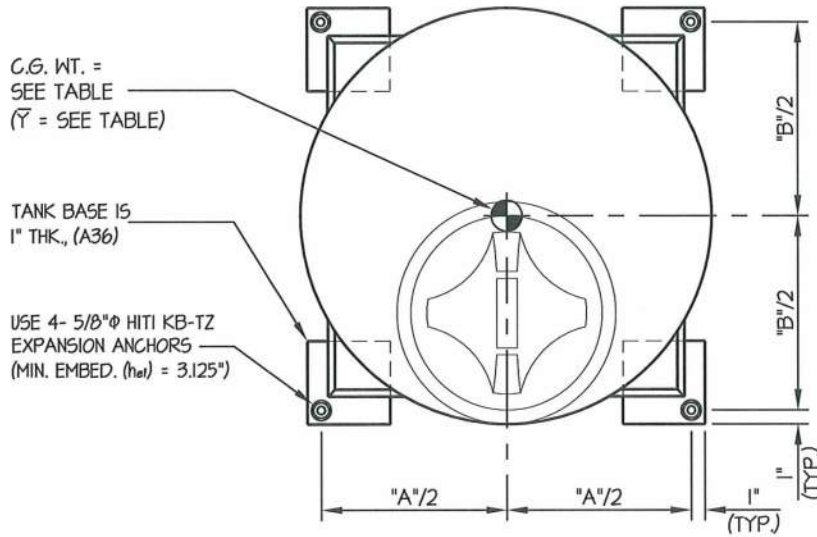
3. ARCHITECT OR STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.



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AMERIWATER	DES. R. LA BRIE	SHEET 2
STORAGE TANKS	JOB NO. 11-0929	OF 2 SHEETS
	DATE 12/14/09	

SEISMIC ANCHORAGE

SLAB ON GRADE



PLAN AT BASE

EQUIPMENT NAME	WEIGHT (LBS.)	"A" (in)	"B" (in)	"Y" (in)	"H" (in)	T _{MAX} (LBS.)	T _{MAX} (LBS.)
00CT55	462	21	22	25	51	178	70
00CT100	833	29	30	26	52	239	135
00CT100 (TALL)	910	29	30	40	82	419	139
* 00CT200	1507	27	28	40	83	754	230

LOADS:

WEIGHT = 1507 LBS.
 HORIZONTAL FORCE (E_w) = 919 LBS.
 VERTICAL FORCE (E_v) = 407 LBS.

* THIS UNIT IS USED IN THE CALCULATIONS BELOW.

BOLT FORCES:

TENSION (T)

$$T_{\text{MAXIMUM}} = \left[\frac{919\#(40\#)}{2 \text{ BOLTS } (28\#)} \times (0.3) \right] + \frac{919\#(40\#)}{2 \text{ BOLTS } (27\#)} - \frac{1507\#(0.6) - 407\#}{4 \text{ BOLTS}} = 754 \text{ LBS/BOLT (MAX)}$$

(HORIZ - FRONT TO BACK) (HORIZ - SIDE TO SIDE) (WEIGHT (0.6) · E_v)

SHEAR (V)

$$V_{\text{MAXIMUM}} = \frac{919\#}{4 \text{ BOLTS}} = 230 \text{ LBS/BOLT (MAX)}$$

UNITY CHECK:

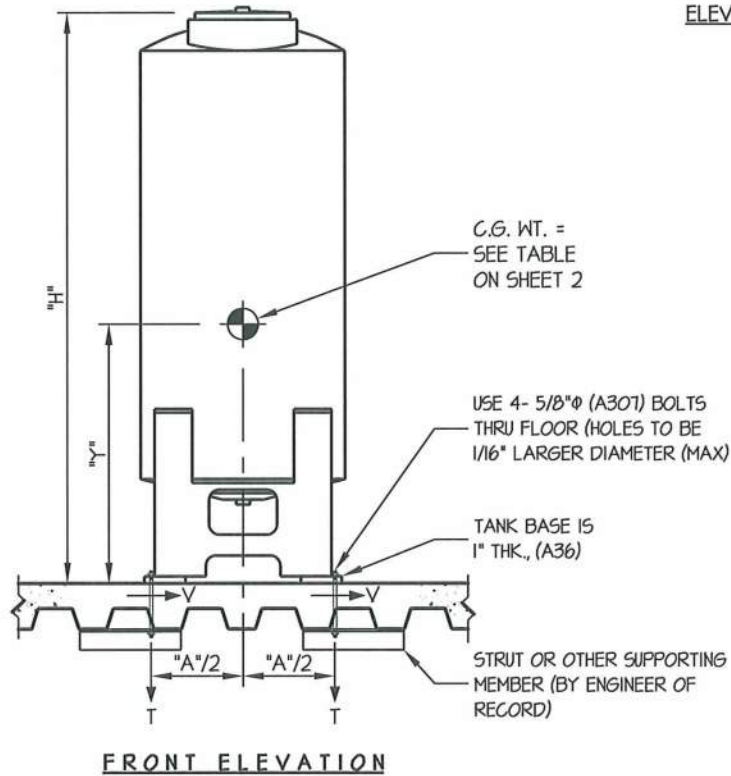
$$\left(\frac{T_{\text{ACTUAL}}}{T_{\text{ALLOW.}}} \right) + \left(\frac{V_{\text{ACTUAL}}}{V_{\text{ALLOW.}}} \right) \leq 12 \quad \left(\frac{754}{1259} \right) + \left(\frac{230}{1273} \right) = .78 \leq 12 \therefore \text{O.K.}$$



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AMERIWATER	DES. R. LA BRIE	SHEET 1
	JOB NO. 11-0929	OF 2 SHEETS
STORAGE TANKS	DATE 12/14/09	

SEISMIC ANCHORAGE

ELEVATED FLOOR



FRONT ELEVATION

NOTES:

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HORIZONTAL FORCE (E_h) = $0.97 W_p$ ($S_{Ds} = 1.93$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 2.5$)

VERTICAL FORCE (E_v) = $0.27 W_p$

2. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS CALCULATION ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.

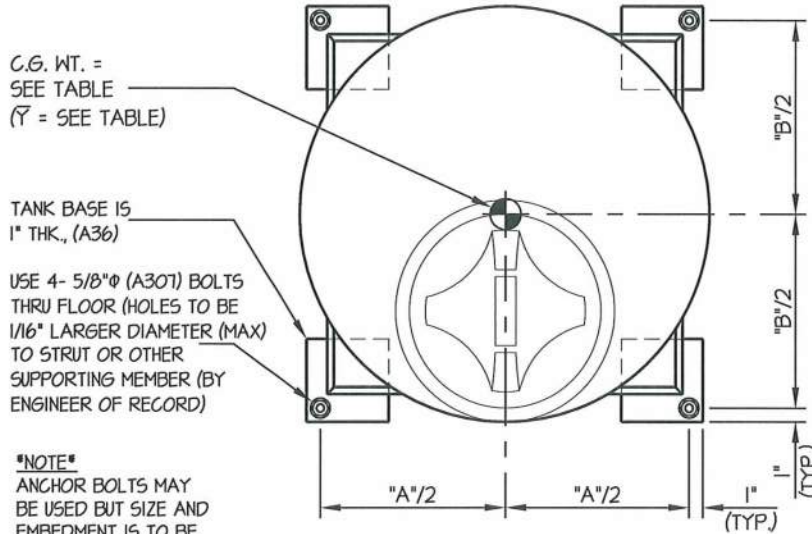
3. ARCHITECT OR STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.



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AMERIWATER	DES. R. LA BRIE	SHEET 2
STORAGE TANKS	JOB NO. 11-0929	OF 2 SHEETS
	DATE 12/14/09	

SEISMIC ANCHORAGE

ELEVATED FLOOR



PLAN AT BASE

EQUIPMENT NAME	WEIGHT (LBS.)	"A" (in)	"B" (in)	"Y" (in)	"H" (in)	T _{MAX} (LBS.)	T _{MAX} (LBS.)
00CT55	462	21	22	25	51	305	112
00CT100	833	29	30	26	52	422	214
00CT100 (TALL)	910	29	30	40	82	710	221
* 00CT200	1507	27	28	40	83	1272	365

* THIS UNIT IS USED IN THE CALCULATIONS BELOW.

LOADS:

WEIGHT = 1507 LBS.
 HORIZONTAL FORCE (E_w) = 1462 LBS.
 VERTICAL FORCE (E_v) = 407 LBS.

BOLT FORCES:

TENSION (T)

$$T_{\text{MAXIMUM}} = \left[\frac{1462\#(40\#)}{2 \text{ BOLTS } (28\#)} \times (0.3) \right] + \frac{1462\#(40\#)}{2 \text{ BOLTS } (27\#)} - \frac{1507\#(0.6) - 407\#}{4 \text{ BOLTS}} = 1272 \text{ LBS/BOLT (MAX)}$$

(HORIZ - FRONT TO BACK) (HORIZ - SIDE TO SIDE) (WEIGHT (0.6) - E_v)

SHEAR (V)

$$V_{\text{MAXIMUM}} = \frac{1462\#}{4 \text{ BOLTS}} = 365 \text{ LBS/BOLT (MAX) (PER AISC J3.7, LESS THAN 20% STRESS)}$$





Cut Sheet Summary

GBA Id	22143
Item	Sterilizer, 26X37.5X54
Manufacturer	Steris
Model	EVOLUTION



Image shown may vary in color or finish from actual item to be purchased.

Physical	Electrical	Plumbing/Mechanical	Responsibilities
Height ("):	78.00	<input type="checkbox"/> Medical Gas	Furnished by: Owner
Width ("):	38.00	<input checked="" type="checkbox"/> Compressed Air	New Install: Med Equip Vendor
Depth ("):	76.00	<input type="checkbox"/> External Exhaust	Existing Install: N/A
Weight (lb):	3,800	<input type="checkbox"/> Ventilation	Deinstall/Move: N/A
Operating Wt (lb):	3,800	<input checked="" type="checkbox"/> Building Steam	<input checked="" type="checkbox"/> Contractor Rough-In
Installation / Placement		<input type="checkbox"/> Integral Steam Generator	Notes
Placement:	Freestanding	<input checked="" type="checkbox"/> Cold Water	
<input type="checkbox"/> Component System		<input type="checkbox"/> Hot Water	<input checked="" type="checkbox"/> Critical Path Item
Seismic Anchorage		<input checked="" type="checkbox"/> Treated Water	<input type="checkbox"/> Refer to Vendor Dwg
Type: Floor		<input checked="" type="checkbox"/> Drain	<input checked="" type="checkbox"/> See Mfgr Cut Sheets
Pre-apprvl #: OPA-2092-10		BTUs/Hr: 14,650	<input checked="" type="checkbox"/> Dimensions may be rounded; see vendor sheets
	<input type="checkbox"/> Multiple Elec Reqs		N/A Responsibilities = No Qty (New /Existing)
	Voltage: 480		
	Hertz: 60		
	Phase: 3		
	Amps: 6		
	Watts:		
	Volt Amps:		
	Breaker Size: 8		
	<input checked="" type="checkbox"/> Dedicated		
	<input checked="" type="checkbox"/> Emergency		
	<input checked="" type="checkbox"/> Hard-wired <input type="checkbox"/> Power Cord		
	NEMA:		
	Network Connection: Wired		
	<input type="checkbox"/> Cable TV		
	<input type="checkbox"/> Analog Phone Line		
	<input type="checkbox"/> Remote Alarm		

Comments:

The information provided on this summary sheet is based on the data contained on the manufacturer cut sheet(s) that follow. It is the responsibility of the recipient to review the manufacturer's cut sheets for complete information. All specifications included in this document are subject to change without notice by the manufacturer.



AMSCO® EVOLUTION™ STEAM STERILIZERS - NORTH AMERICA

APPLICATION

This sterilizer is configured for prevacuum sterilization of heat- and moisture-stable materials used in healthcare facilities. These units are equipped with prevacuum, Steam Flush Pressure Pulse (SFPP), gravity, liquid, DART (Bowie-Dick) and vacuum leak test cycles.

DESCRIPTION

Amsco® Evolution™ Steam Sterilizers are equipped with the latest features in both state-of-the-art technology and ease of use.

Primary Product Features

- **Hinged door** for 26 x 37.5" (660 x 953 mm) sterilizers. Door may be hinged on either left side or right side.
- All plumbing components are mounted to a free-standing, modular rack (stand). The stand connects to the core sterilizer assembly during installation.
- **Vertical-sliding door** 26 x 26" (660 x 660 mm) or **horizontal-sliding door** 26 x 37.5" (660 x 953 mm):



Typical only - some details may vary.

- » For 26 x 26" (660 x 660 mm) sterilizers, door travels vertically down to open and up to close.
- » For 26 x 37.5" (660 x 953 mm) sterilizers, door travels horizontally right to left to open.
- An **advanced, PC-based control system** employs user-friendly interface screens, with enhanced graphics.
- 8.4" (214 mm) color touch screen display.
- Ink on paper impact printer.

The Selections Checked Below Apply To This Equipment

TYPE

- Prevacuum
- Steam Flush Pressure Pulse (SFPP)

MODEL NUMBER/SIZE

- HC900 / 26 x 37-1/2 x 42" (660 x 950 x 1067 mm)
- HC1200 / 26 x 37-1/2 x 54" (660 x 950 x 1372 mm)
- HC1500 / 26 x 37.5 x 66" (660 x 953 x 1676 mm)
- HC600 / 26 x 26 x 39" (660 x 660 x 991 mm)
- HC800 / 26 x 26 x 49" (660 x 660 x 1245 mm)
- HC1000 / 26 x 26 x 61" (660 x 660 x 1549 mm)

STERILIZER ELECTRIC SERVICE

- 208/240 V ac, 50/60 Hz, 3-Phase, 12 A/Phase
- 480 V ac, 50/60 Hz, 3-Phase, 6 A/Phase

STEAM SOURCE

- House Steam
- 72 kW Optional Integral Electric Steam Generator
 - 208V, 50/60 Hz, 3-Phase, 203 A
 - 240V, 50/60 Hz, 3-Phase, 176 A
 - 480V, 50/60 Hz, 3-Phase, 89 A

STEAM PIPING

- Copper/Brass
- Optional Right-hand Piping

NOTE: Left-hand piping is standard

DOOR CONFIGURATION

(26 X 37.5" STERILIZERS, ONLY)

- Single-Door**
 - Hinged Door
 - Horizontal-Sliding
 - Left-Hand
 - Right-Hand (not available for sliding door units)
- Double-Door**
 - Hinged Door

Note: Operating end hinge position listed first, Non-operating end hinge position listed second.

- Right-Hand/Left-Hand
- Right-Hand/Right-Hand
- Left-Hand/Right-Hand
- Left-Hand/Left-Hand
- Horizontal-Sliding Door

Note: Operating end slide direction listed first, Non-operating end slide direction listed second.

- Left-Hand/Right-Hand

(Direction of door movement is right-hand to left-hand, as viewed from the sterilizer's operating end.)

DOOR CONFIGURATION

(26 X 26" STERILIZERS, ONLY)

- Single Door Vertical Sliding
- Double Door Vertical Sliding

SINGLE-DOOR MOUNTING

- Cabinet Enclosed/Freestanding
- Recessed

DOUBLE-DOOR MOUNTING

- Recessed through One Wall
- Recessed through Two Walls

ACCESSORIES

- 42" (1067 mm) Chamber Length
- 54" (1372 mm) Chamber Length
- 66" (1676 mm) Chamber Length
- 39" (991 mm) Chamber Length
- 49" (1245 mm) Chamber Length
- 61" (1549 mm) Chamber Length
- Loading Car
- Transfer Carriage
- Chamber Track Assembly
 - Single Door
 - Double Door
- Loading Car, Transfer Carriage and Track Assembly
 - Single Door
 - Double Door
- Chamber Rack and Shelf (39" & 42" Units, only)

REMOTE MONITORING

- ProConnect® Response Center (Remote Monitoring, Priority Technical Support, Customer Care Center Access, Equipment Performance Reports)

Item _____

Location(s) _____

SD889 (02/01/11)

Model Number	Internal Dimensions Inches (Millimeters)	Cubic Inches	Cubic Feet
HC600	26 x 26 x 39" (660 x 660 x 991 mm)	26,364	15.2
HC800	26 x 26 x 49" (660 x 660 x 1245 mm)	33,124	19.1
HC1000	26 x 26 x 61" (660 x 660 x 1549 mm)	41,236	23.8
HC900	26 x 37.5 x 42" (660 x 953 x 1067 mm)	35,100	20.3
HC1200	26 x 37.5 x 54" (660 x 953 x 1372 mm)	46,800	27.0
HC1500	26 x 37.5 x 66" (660 x 953 x 1676 mm)	64,350	37.2

- Standard communication interface with most PC-compatible peripheral devices (e.g., data collection systems, printers)
- Automatic check of control program and cycle data maintains process integrity
- Control is designed to accommodate integrated remote monitoring and instrument tracking interfaces.

STANDARDS

Each sterilizer meets applicable requirements of the following listings and standards, and carries the appropriate symbols:

- **ASME Code, Section VIII, Division 1 for unfired pressure vessels.** The pressure vessel is so stamped; ASME Form U-1 is furnished. Shell and door are constructed to withstand working pressure of 45 psig (3.1 bar).
- **Underwriters Laboratory (UL) Standard 61010-1** as certified by Intertek Testing services.
- **Canadian Standards Association (CSA) Standard C22.2, No. 1010** as certified by Intertek Testing services.

FEATURES

26 x 37.5" (660 x 953 mm) Chamber Cross-section or **26 x 26" (660 x 660 mm) Chamber Cross-section** sized to allow for efficient, high-volume processing of sterilization containers, trays and packs.

Fast-operating, low-effort manual door lock mechanism (hinged door models) allows door to be locked or unlocked using a single 30° handle motion, with a fast operating, low-effort door lock mechanism.

Power Door operates quietly, and consists of a motor-driven cable and pulley mechanism. Vertical- and horizontal-sliding door is controlled from control panel push buttons. The door slides open, propelled by the cable and pulley driven electric motor. Double door configurations are supplied with controls at both ends of the sterilizer to help prevent the possibility of cross-contamination.

Software calibration is performed in the Service Mode, accessible through the touch screen displays, and accomplished using external or internal temperature and pressure sources. Control system provides printed record of all calibration data for verification to current readings.

Pneumatic valves are fitted in piping for steam, water and exhaust control.

Principle piping components and the primary control assembly are mounted to a **separate, modular support rack** (plumbing stand). The plumbing stand connects during installation to core chamber and frame assembly, allowing for increased access for service and maintenance procedures when necessary.

ProConnect Response Center - Minimize response time and unscheduled downtime on your equipment. Secure, internet-based, 24/7 remote monitoring enables both Predictive Maintenance as well as instant alerts to STERIS when there is

an equipment alarm. Also included are priority technical support, online parts ordering, equipment performance dashboards, and scheduling service at eservice.steris.com. ProConnect can be directly connected through the sterilizer control or can reside on a separate PC in the department.

UTILITIES CONSERVATION FEATURES

Resistive Thermal Detectors (RTD) are installed for precise sterilizer temperature control and conservation of utilities. The dual element chamber drain line RTD senses and controls temperature variations within the sterilizer chamber. A jacket RTD provides temperature control within the jacket space. These RTD signals, converted into electrical impulses, provide accurate control inputs and readouts throughout entire cycle.

Electronic water saving control includes an RTD to minimize the amount of water used in condensing the exhausted chamber steam and condensate.

Automatic utilities start-up/shutdown permits utilities conservation. Shutdown may be programmed to activate at the end of any designated cycle or time of day. When activated, the control system automatically shuts off all utility valves, conserving steam and water usage. Sterilizer utilities can be restarted either by programmed time or manual operation. A different shutdown and restart time can be programmed for each day.

Insulation sleeve is fitted around exterior of the sterilizer vessel to conserve heat and limit heat loss to the surrounding environment. The sleeve is sealed and held in place by hook-and-loop closures. Insulation is asbestos-free and chloride-free, silicone impregnated, oil- and water-resistant fiberglass.

Two-stage vacuum pump is supplied on all units to effectively pull chamber to specified vacuum levels, reduce cycle time by shortening conditioning and exhaust times; as well as reduce water consumption.

PROCESSING CYCLES

All processing cycles factory programmed into the sterilizer control have been validated to **AAMI/ANSI ST-8**.

IMPORTANT: Applicable cycles have been validated to satisfy the requirements outlined below. If cycle parameters (sterilize time, dry time, temperature) other than those listed are required, it is the responsibility of the healthcare facility to consult and follow the device manufacturer's written instructions.

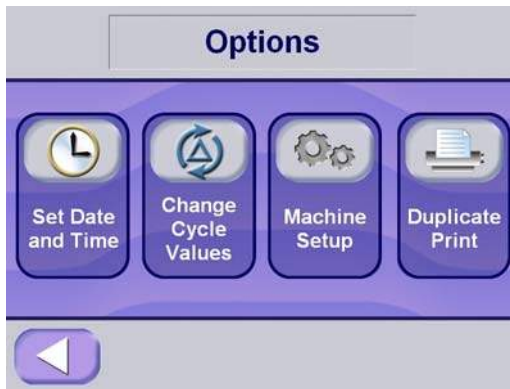
Dry Times for Prevacuum and SFPP are based upon maximum load as follows:

- 26 x 26" (660 x 660 mm) sterilizer - three full shelves of 25 lb (11 kg) instrument trays
- 26 x 37.5" (660 x 953 mm) sterilizer - four full shelves of 25 lb (11 kg) instrument trays

Prevacuum configuration sterilizers are factory programmed with the following cycles: 270°F (132°C) Prevacuum, Gravity, SFPP, Liquid, 275°F (135°C) Prevacuum; SFPP and Test



Ready State Screen



Options Screen

Cycles. Prevacuum cycles feature vacuum pulses followed by pressure pulses for **porous load cycles**. **Prevacuum cycles** are intended for efficient, high-volume processing of heat- and moisture-stable materials, such as fabrics and wrapped hard goods. This process incorporates a series of vacuum/pressure pulses to condition the load prior to sterilization.

Default Prevac Cycles

- **270°F (132°C) Prevacuum Cycle:** For efficient, high-volume processing of heat- and moisture-stable materials, such as fabrics and wrapped hard goods. This process incorporates a series of pressure/vacuum pulses to condition the load prior to sterilization.
 - » Sterilize temperature: 270°F (132°C)
 - » Sterilize time: 4 minutes
 - » Dry time: 30 minutes
- **270°F (132°C) Prevacuum Cycle:** For sterilizing single fabric packs.
 - » Sterilize temperature: 270°F (132°C)
 - » Sterilize time: 4 minutes
 - » Dry time: 5 minutes

- **275°F (135°C) Prevacuum Cycle:** For sterilizing double-wrapped instrument trays.
 - » Sterilize temperature: 275°F (135°C)
 - » Sterilize time: 3 minutes
 - » Dry time: 30 minutes
- **250°F (121°C) Gravity Cycle:** For sterilizing fabrics.
 - » Sterilize temperature: 250°F (121°C)
 - » Sterilize time: 30 minutes
 - » Dry time: 15 minutes
- **270°F (132°C) Gravity Cycle:** For sterilizing double-wrapped instrument trays.
 - » Sterilize temperature: 270°F (132°C)
 - » Sterilize time: 15 minutes
 - » Dry time: 30 minutes
- **250°F (121°C) Gravity Cycle:** For sterilizing double-wrapped instrument trays.
 - » Sterilize temperature: 250°F (121°C)
 - » Sterilize time: 30 minutes
 - » Dry time: 30 minutes
- **270°F (132°C) Gravity Cycle:** For sterilizing fabric packs.
 - » Sterilize temperature: 270°F (132°C)
 - » Sterilize time: 25 minutes
 - » Dry time: 15 minutes
- **Liquid Cycle:** This cycle is used for sterilizing liquids in borosilicate containers with vented closures.
 - » Sterilize temperature: 250°F (121°C)
 - » Factory programmed sterilize time: 45 minutes
 - » Dry time: not applicable

IMPORTANT: It is inappropriate for a healthcare facility to sterilize liquids for direct contact with patients.

Steam Flush Pressure Pulse (SFPP) configuration sterilizers are factory programmed with the following cycles: SFPP, Prevacuum, Gravity, Liquid and Test Cycles. See cycle descriptions below for more details:

Default SFPP Cycles

- **270°F (132°C) SFPP Cycle:** For efficient, high-volume processing of double wrapped instrument trays and fabric packs. This process incorporates a series of steam flushes and pressure pulses at pressures above atmospheric levels to condition load prior to sterilization.
 - » Sterilize temperature: 270°F (132°C)
 - » Sterilize time: 4 minutes
 - » Dry time: 30 minutes
- **275°F (135°C) SFPP Cycle:** For sterilizing double-wrapped instrument trays.
 - » Sterilize temperature: 275°F (135°C)
 - » Sterilize time: 3 minutes
 - » Dry time: 30 minutes

- **270°F (132°C) SFPP Cycle:** For sterilizing single fabric packs.
 - » Sterilize temperature: 270°F (132°C)
 - » Sterilize time: 4 minutes
 - » Dry time: 5 minutes
- **270°F (132°C) Prevacuum Cycle:** For efficient, high-volume processing of heat- and moisture-stable materials, such as fabrics and wrapped hard goods. This process incorporates a series of pressure/vacuum pulses to condition the load prior to sterilization.
 - » Sterilize temperature: 270°F (132°C)
 - » Sterilize time: 4 minutes
 - » Dry time: 30 minutes
- **275°F (135°C) Prevacuum Cycle:** For sterilizing double-wrapped instrument trays.
 - » Sterilize temperature: 275°F (135°C)
 - » Sterilize time: 3 minutes
 - » Dry time: 30 minutes
- **250°F (121°C) Gravity Cycle:** For sterilizing fabrics.
 - » Sterilize temperature: 250°F (121°C)
 - » Sterilize time: 30 minutes
 - » Dry time: 15 minutes
- **270°F (132°C) Gravity Cycle:** For sterilizing double-wrapped instrument trays.
 - » Sterilize temperature: 270°F (132°C)
 - » Sterilize time: 15 minutes
 - » Dry time: 30 minutes
- **Liquid Cycle:** This cycle is used for sterilizing liquids in borosilicate containers with vented closures.
 - » Sterilize temperature: 250°F (121°C)
 - » Factory programmed sterilize time: 45 minutes
 - » Dry time: not applicable

IMPORTANT: It is inappropriate for a healthcare facility to sterilize liquids for direct contact with patients.

TESTING CYCLES

- **DART Warm-up Cycle:** This cycle is used to warm chamber to operating temperature prior to performing a DART (Bowie-Dick) Test cycle.
- **DART (Bowie-Dick) Test Cycle:** This cycle is used for conducting Bowie-Dick tests. Recommended load is a properly prepared Bowie-Dick test pack. Preprogrammed cycle parameters cannot be adjusted by the user.
 - » Sterilize temperature: 270° (132°C)
 - » Sterilize time: 3 minutes and 30 seconds
 - » Dry time: 1 minute
- **Vacuum Leak Test:** This cycle is used for testing the vacuum integrity of the sterilizer's piping. Sterilizer chamber must be empty while running this test cycle. All timing is preprogrammed and cannot be adjusted.

CONTROL SYSTEM

Design Features

The control system monitors and controls all sterilizer operations and functions. The control system is factory-programmed with standard sterilizing cycles. Each cycle is

adjustable to meet specific processing requirements. All operator-accessible control functions can be changed using the touch screen control.

IMPORTANT: If cycle parameters (sterilize time, dry time, temperature) other than those listed are required, it is the responsibility of the healthcare facility to consult and follow the device manufacturer's written instructions.

Cycle values and operating features may be adjusted and verified prior to cycle operation. Cycle parameters are retained in control memory for repeated use.

Once cycle is started, cycles and cycle values cannot be changed until cycle is complete. If chamber temperature drops below set point during the exposure phase, the timer is set to stop and automatically reset once normal operating temperature is reached.

Critical control system components are housed within a sealed compartment to protect the components from moisture and heat generated during the sterilization process.

Operator interface control panel, consisting of a touch screen, is located on the operating (i.e., load or non-sterile) end of the sterilizer.

The operator interface consists of a **touch-sensitive, color screen**. This display allows for control communications, graphics and excellent visibility in most environments. The display panel, in conjunction with the control, is used as the monitor for the operator. All sterilizer functions, including cycle initiation and cycle configuration, are operated by pressing the touch-sensitive areas on the display. Display indicates appropriate control buttons, operator prompts, and status messages necessary to assist in sterilizer operation. All displayed messages are complete phrases with no codes to be cross-referenced. Display also indicates any abnormal conditions that may exist either in or out of a cycle. Control buffer memory retains up to ten previously-run cycles for later access.

24-Character ink-on-paper printer, located below touch screen, provides an easy-to-read printed record of all pertinent cycle data on 2.25" (57 mm) wide paper. Data is automatically printed at the beginning and end of each cycle and at transition points during the cycle. Three paper tape rolls and two printer ribbons are furnished with each unit.

Non-operating end (NOE) control panel, on double-door sterilizers only, includes a touch sensitive screen similar to the operating end screen. Preprogrammed cycles can be started from the NOE control panel. Display concurrently shows the same information as the operating end screen display. Other controls located at the non-operating end include door control pushbuttons (if power door), jacket and chamber gauges and an emergency-stop button (if power door).

Cycle configuration is performed by accessing the Change Values menu through the operating end touch screen.

In addition to adjustment of cycle values, the following operating parameters can also be changed through the Machine Setup menu:

- **Time display and printout units** 24-hour or AM/PM.
- **Audible signals, end-of-cycle signals and alarm signals** have three adjustable volume levels available through the control and display panel.
- **Temperature display and printout units** Fahrenheit (°F) or Celsius (°C). Temperature is set, displayed, controlled and printed to the nearest 0.1°. Recalibration is not required when changing temperature units.
- **Pressure/vacuum display and printout units** psig/InHg or bar. Recalibration is not required when changing pressure units.

SAFETY FEATURES

Emergency stop button located on the front panel, below the sterilizer control touch pad (Power Door Units Only). When pressed, immediately shuts off all outputs on the sterilizer. A key is used to reset the switch.

Control lockout switch equipped on chamber door(s), senses when door seal is energized and tight against the door. Control prevents cycle from starting until the limit switch signal is received. If control loses appropriate signal during cycle, alarm activates, cycle aborts and chamber safely vents with a controlled exhaust.

Chamber float switch activates alarm, aborts cycle and safely vents chamber with a controlled exhaust if excessive condensate is detected in the vessel chamber.

Pressure relief valve limits the amount of pressure buildup so that the rated pressure in the vessel is not exceeded.

Power door safety feature causes door drive to slip if the sliding door encounters an obstruction during its movement.

CONSTRUCTION

Shell Assembly

Two fully fabricated Type 316L stainless-steel shells, welded one within the other, form the sterilizer vessel. Type 316L stainless-steel end frame(s) is welded to door end. On single door units, back of chamber is fitted with welded, 316L stainless-steel dished head.

Sterilizer vessel is ASME and PED rated at 45 psig (3.1 bar) and insulated. Vessel includes one 1"-NPT chamber port for Customer use.

Steam-supply opening inside the chamber is shielded by a stainless-steel baffle.

Chamber Door(s)

Door is constructed of Type 316L stainless steel.

During cycle operation, door is sealed by a steam-activated door seal. Door seal is constructed of a special long-life rubber compound. When sterilize cycle is complete, the seal retracts under vacuum into a machined groove in the sterilizer's end frame.

A proximity switch is used by the control to determine if door is closed. An additional seal pressure switch prevents inadvertent cycle initiation if door is not sealed.

The door assembly is equipped with a mechanical locking mechanism that ensures the door cannot be opened as long as the seal is intact and energized and more than 2 psig (0.14 bar) pressure is in the chamber.

The sterilizer door is fitted with a stainless-steel panel that insulates the operator from the chamber end frame, reducing the chance of accidental contact with a hot metal surface.

Chamber Drain System

Drain system is designed to prevent pollutants from entering into the water-supply system and sterilizer.

The automatic condensing system, consisting of a heat exchanger, converts chamber steam to condensate and disposes condensate to waste. Cooling water flow is regulated by the waste line RTD to minimize water usage. Water supply shutoff valve is located in the recessed area of the unit.

Vacuum System

Two-stage vacuum pump reduces chamber pressure during prevacuum and post-drying phases. Air is drawn from the chamber through the vacuum system. Following the dry phase, chamber vacuum is relieved to atmospheric pressure by admitting air through a bacteria-retentive filter.

Steam Source

Sterilizers are piped, valved and trapped to receive building-supplied steam delivered at 50 to 80 psig (3.5 to 5.6 bar) dynamic. Standard steam piping is constructed of copper and brass and includes a shutoff valve, separator and a pressure regulator. (An optional, integral electric steam generator is also available.)

Piping

All piping is located on a modular plumbing rack (stand). Plumbing stand can be located on either side of the sterilizer.

MOUNTING ARRANGEMENT

Sterilizers are arranged for either freestanding or recessed installation, as specified. Each sterilizer is height-adjustable. Sterilizer subframe is equipped with a synthetic rubber gasket to ensure tight fit between the cabinet panels on freestanding units or between the front cabinet panel and wall partition on recessed units.

On freestanding units, stainless-steel side panels and a louvered top panel enclose the sterilizer body and piping.

ACCESSORIES

Material Handling Accessories include stainless-steel chamber tracks and stainless-steel loading cars with painted-steel or stainless-steel transfer carriages. Stainless-steel chamber rack and shelf are available for 39" (991 mm) sterilizers only. See separate product literature for details.

Optional Integral Steam Generator is constructed of 316L stainless steel or carbon steel. Generator is integral for 26 x 37.5" and 26 x 26" vertical door sterilizers. The steam generator is equipped with three main heating elements. Generator is operated by sterilizer control system. (Refer to ENGINEERING DATA / UTILITY REQUIREMENTS on page 6 for utilities specifications.)

PREVENTIVE MAINTENANCE

A global network of skilled service specialists can provide periodic inspections and adjustments to help assure low-cost peak performance. STERIS representatives can provide information regarding annual maintenance agreements.

NOTES

1. Customer is responsible for backflow protection, if required.
2. Pipe sizes shown indicate terminal outlets only. Building service lines, provided by others, must supply the specified pressures and flow rates.
3. Disconnect switches (with OFF position lockout only; switches not supplied by STERIS) should be installed in electric supply lines near the equipment.
4. Access to the recessing area from the control end of the sterilizer is recommended.
5. Clearances shown are minimal for installing and servicing the equipment.
6. Depending on the loading equipment used, additional clearance is required:
 - If shelves are used, length of sterilizer plus 24" (610 mm) at each door (36" [914 mm] and 39" [991 mm] sterilizers, only).
 - If loading car and carriage will be used, twice the length of sterilizer at each door.
7. Floor drain should be provided within confines of sterilizer framework.

CUSTOMER IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE LOCAL AND NATIONAL CODES AND REGULATIONS.

ENGINEERING DATA / UTILITY REQUIREMENTS

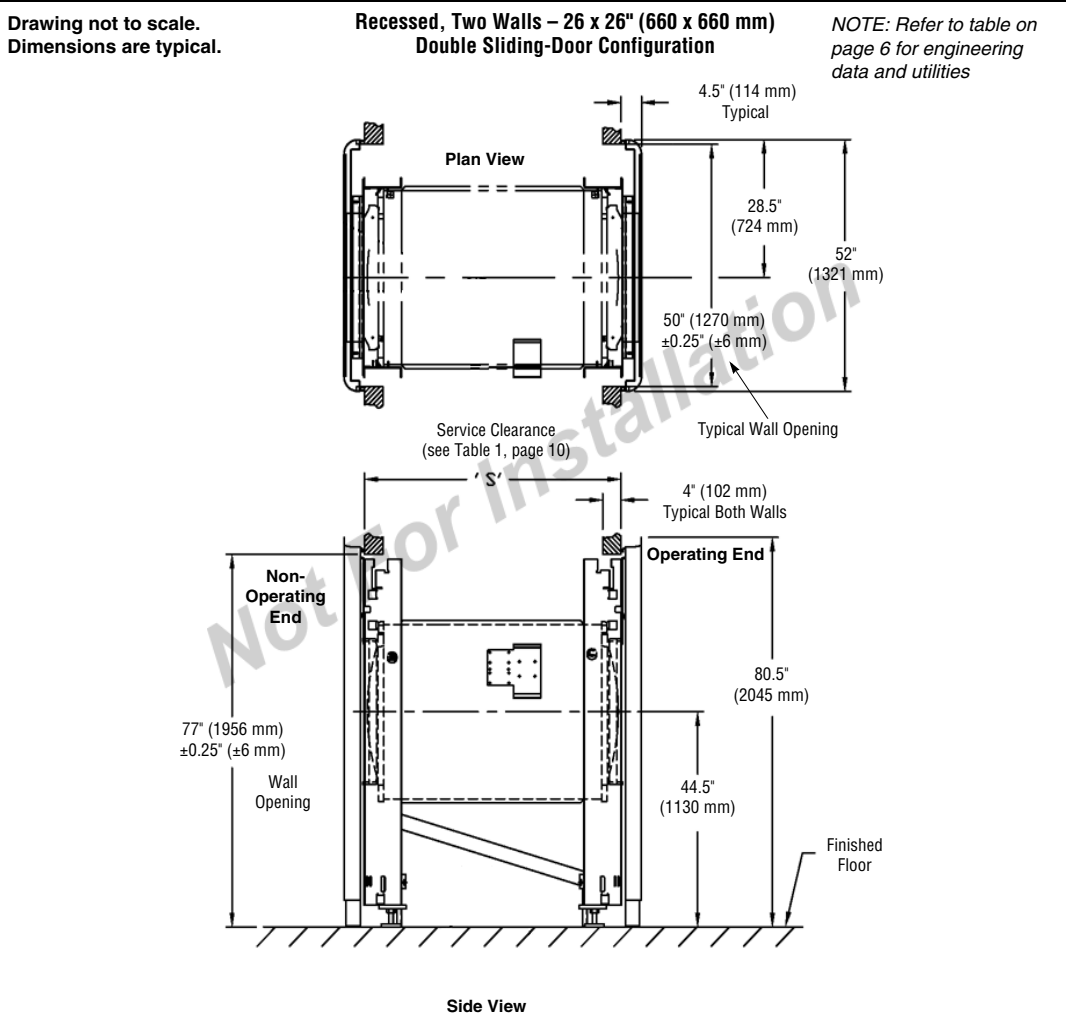
Drain:	2" ODT drain terminal (Floor drain capacity must handle peak water consumption)		
Electric:	Control and Vacuum Pump: 208-240 Volt, 3-phase, 50/60 Hz, 12 Amps/phase. 16A circuit breaker recommended. 480 Volt, 3-phase, 50/60 Hz, 6 Amps/phase. 8A circuit breaker recommended.		
House Steam:	Size: 3/4" NPT Pressure: 50 to 80 psig (3.45 to 5.5 bar), dynamic, condensate free, and 97% to 100% vapor quality.		
Consumption (270°F [132°C] Cycle):			
<u>26 x 26" (660 x 660 mm)</u>	39" (991 mm) Chamber Length • Average: 42 lb/cycle (19 kg/cycle) • Peak: 310 PPH (141 kg/hr)	49" (1245 mm) Chamber Length • Average: 52 lb/cycle (24 kg/cycle) • Peak: 310 PPH (141 kg/hr)	61" (1549 mm) Chamber Length • Average: 65 lb/cycle (30 kg/cycle) • Peak: 310 PPH (141 kg/hr)
<u>26 x 37.5" (660 x 953 mm)</u>	42" (1067 mm) Chamber Length • Average: 63 lb/cycle (29 kg/cycle) • Peak: 310 PPH (141 kg/hr)	54" (1372 mm) Chamber Length • Average: 82 lb/cycle (37 kg/cycle) • Peak: 310 PPH (141 kg/hr)	66" (1676 mm) Chamber Length • Average: 100 lb/cycle (45 kg/cycle) • Peak: 310 PPH (141 kg/hr)
Feed Water:	Size: 3/4" NPT, Pressure: 20 to 50 psig (1.4 to 3.5 bar), dynamic. Temperature: 59°F (15°C), maximum.		
Consumption:			
<u>26 x 26" (660 x 660 mm)</u>	39" (991 mm) Chamber Length Peak: 13 gpm (49 lpm) / Average: 112 gal/cycle (424 l/cycle) 49" (1245 mm) Chamber Length Peak: 13 gpm (49 lpm) / Average: 137 gal/cycle (519 l/cycle) 61" (1549 mm) Chamber Length Peak: 13 gpm (49 lpm) / Average: 168 gal/cycle (636 l/cycle)		
<u>26 x 37.5" (660 x 953 mm)</u>	42" (1067 mm) Chamber Length Peak: 13 gpm (49 lpm) / Average: 164 gal/cycle (621 l/cycle) 54" (1372 mm) Chamber Length Peak: 13 gpm (49 lpm) / Average: 207 gal/cycle (784 l/cycle) 66" (1676 mm) Chamber Length Peak: 13 gpm (49 lpm) / Average: 250 gal/cycle (946 l/cycle)		
Compressed Air (CA):	1/4" NPT 80-100 psig (5.5 to 6.9 bar psig), oil free, dehumidified, 3 cfm		
Sterilizer Operating Weight:	26 x 26 x 39" (660 x 660 x 991 mm) – 2756 lb (1250 kg) 26 x 26 x 49" (660 x 660 x 1245 mm) – 3200 lb (1450 kg) 26 x 26 x 61" (660 x 660 x 1549 mm) – 3500 lb (1590 kg) 26 x 37.5 x 42" (660 x 950 x 1067 mm) – 3800 lb (1720 kg) 26 x 37.5 x 54" (660 x 950 x 1372 mm) – 4200 lb (1900 kg) 26 x 37.5 x 66" (660 x 953 x 1676 mm) – 4700 lb (2132 kg)		
Optional Integral Steam Generator:	Water: 3/4" NPT; hot water temperature 140°F (60°C). Generator Drain: 3/4" NPT Electric: 208 Volt, 50/60Hz, 203 Amp, 3-phase minimum. 300A circuit breaker recommended. 240 Volt, 50/60Hz, 176 Amp, 3-phase minimum. 225A circuit breaker recommended. 480 Volt, 50/60Hz, 89 Amp, 3-phase minimum. 125A circuit breaker recommended. Boiler empty weight: 595 lb (270 kg); boiler operating weight: 800 lb (363 kg)		
Telecommunications Requirements for ProConnect Response Center	<ul style="list-style-type: none"> • Each sterilizer requires an active wired or wireless TCP/IP network, 10/100BaseT Ethernet connection located as indicated on the equipment drawing, Internet access and an IP address on the facility network. • For connection via a separate PC: 5 GB of available hard drive space to run the service agent. Can be installed on: <ul style="list-style-type: none"> • Dedicated PC running Windows XP with 2.8GHz processor, 512MB of RAM • Virtual Machine • Server • Local STERIS login at the PC with a username of STERIS and the password should be ProConnect (STERIS Customer Number). • Ethernet cable to connect each piece of STERIS equipment and the dedicated PC to the facility network, if not connected directly to the sterilizer control. 		

NOTES:

1. Chamber length(s) indicated within brackets [] following Equipment Drawing Title.

Refer to the Following Equipment Drawings for Installation Details	
Equipment Drawing Number	Equipment Drawing Title
62941-091	General Notes – Applicable to Sterilizer Equipment Drawings
129390-151	26 x 26" Evolution Steam Ster. Double Sliding Door Recessed Two Walls Electric Heat with Steam Generator [49" (1245 mm), 61" (1549 mm)]
129390-152	26 x 26" Evolution Steam Ster. Double Sliding Door Recessed Two Walls Steam Heat [49" (1245 mm), 61" (1549 mm)]
129390-153	26 x 26" Evolution Steam Ster. Single Sliding Door Recessed One Wall Electric Heat with Steam Generator [49" (1245 mm), 61" (1549 mm)]
129390-154	26 x 26" Evolution Steam Ster. Single Sliding Door Recessed One Wall Steam Heat [49" (1245 mm), 61" (1549 mm)]
129390-155	26 x 26" Evolution Steam Ster. Single Sliding Door Cabinet Steam Heat [49" (1245 mm), 61" (1549 mm)]
129390-156	26 x 26" Evolution Steam Ster. Single Sliding Door Cabinet Electric Heat with Steam Generator [49" (1245 mm), 61" (1549 mm)]
129390-157	26 x 26" Evolution Steam Ster. Double Sliding Door Recessed One Wall Steam Heat [49" (1245 mm), 61" (1549 mm)]
129390-158	26 x 26" Evolution Steam Ster. Double Sliding Door Recessed One Wall Electric Heat with Steam Generator [49" (1245 mm), 61" (1549 mm)]
129390-168	26 x 26" Evolution Steam Ster. Double Sliding Door Recessed Two Walls Electric Heat with Steam Generator [39" (991 mm)]
129390-169	26 x 26" Evolution Steam Ster. Double Sliding Door Recessed Two Walls Steam Heat [39" (991 mm)]
129390-170	26 x 26" Evolution Steam Ster. Double Sliding Door Recessed One Wall Steam Heat [39" (991 mm)]
129390-171	26 x 26" Evolution Steam Ster. Double Sliding Door Recessed One Wall Electric Heat with Steam Generator [39" (991 mm)]
129390-159	26 x 37-1/2" Evolution Steam Ster. Double Sliding Door Recessed Two Walls Electric Heat with Steam Generator [48" (1219 mm), 60" 1524 mm]]
129390-160	26 x 37-1/2" Evolution Steam Ster. Double Sliding Door Recessed Two Walls Steam Heat [48" (1219 mm), 60" 1524 mm]]
129390-161	26 x 37-1/2" Evolution Steam Ster. Single Sliding Door Recessed One Wall Electric Heat with Steam Generator [48" (1219 mm), 60" 1524 mm]]
129390-162	26 x 37-1/2" Evolution Steam Ster. Single Sliding Door Recessed One Wall Steam Heat [48" (1219 mm), 60" 1524 mm]]
129390-163	26 x 37-1/2" Evolution Steam Ster. Single Sliding Door Cabinet Steam Heat [48" (1219 mm), 60" 1524 mm]]
129390-164	26 x 37-1/2" Evolution Steam Ster. Single Sliding Door Cabinet Electric Heat with Steam Generator [48" (1219 mm), 60" 1524 mm]]
129390-165	26 x 37-1/2" Evolution Steam Ster. Double Sliding Door Recessed One Wall Steam Heat [48" (1219 mm), 60" 1524 mm]]
129390-166	26 x 37-1/2" Evolution Steam Ster. Double Sliding Door Recessed One Wall Electric Heat with Steam Generator [48" (1219 mm), 60" 1524 mm]]
129390-172	26 x 37-1/2" Evolution Steam Ster. Double Sliding Door Recessed Two Walls Electric Heat with Steam Generator [36" (914 mm)]
129390-173	26 x 37-1/2" Evolution Steam Ster. Double Sliding Door Recessed Two Walls Steam Heat [36" (914 mm)]

Refer to the Following Equipment Drawings for Installation Details (Continued)	
Equipment Drawing Number	Equipment Drawing Title
129390-174	26 x 37-1/2" Evolution Steam Ster. Double Sliding Door Recessed One Wall Steam Heat [36" (914 mm)]
129390-175	26 x 37-1/2" Evolution Steam Ster. Double Sliding Door Recessed One Wall Electric Heat with Steam Generator [36" (914 mm)]
129390-213	26 x 37-1/2" Evolution Steam Ster. Single Sliding Door Recessed One Wall Electric Heat with Steam Generator [36" (914 mm)]
129390-214	26 x 37-1/2" Evolution Steam Ster. Single Sliding Door Recessed One Wall Steam Heat [36" (914 mm)]
129390-215	26 x 37-1/2" Evolution Steam Ster. Single Sliding Door Cabinet Steam Heat [36" (914 mm)]
129390-216	26 x 37-1/2" Evolution Steam Ster. Single Sliding Door Cabinet Electric Heat with Steam Generator [36" (914 mm)]
129390-201	26 x 37-1/2" Evolution Steam Ster. Single (Hinge) Door Recessed One Wall Electric Heat with Steam Generator [48" (1219 mm), 60" 1524 mm]]
129390-202	26 x 37-1/2" Evolution Steam Ster. Single (Hinge) Door Recessed One Wall Steam Heat [48" (1219 mm), 60" 1524 mm]]
129390-203	26 x 37-1/2" Evolution Steam Ster. Single (Hinge) Door Cabinet Electric Heat with Steam Generator [48" (1219 mm), 60" 1524 mm]]
129390-204	26 x 37-1/2" Evolution Steam Ster. Single (Hinge) Door Cabinet Steam Heat [48" (1219 mm), 60" 1524 mm]]
129390-205	26 x 37-1/2" Evolution Steam Ster. Single (Hinge) Door Recessed Two Walls Electric Heat with Steam Generator [48" (1219 mm), 60" 1524 mm]]
129390-206	26 x 37-1/2" Evolution Steam Ster. Double (Hinge) Door Cabinet Steam Heat [48" (1219 mm), 60" 1524 mm]]
129390-207	26 x 37-1/2" Evolution Steam Ster. Double (Hinge) Door Recessed One Wall Electric Heat with Steam Generator [48" (1219 mm), 60" 1524 mm]]
129290-208	26 x 37-1/2" Evolution Steam Ster. Double (Hinge) Door Recessed One Wall Steam Heat [48" (1219 mm), 60" 1524 mm]]
129390-209	26 x 37-1/2" Evolution Steam Ster. Double (Hinge) Door Recessed Two Walls Electric Heat with Steam Generator [36" (914 mm)]
129390-210	26 x 37-1/2" Evolution Steam Ster. Double (Hinge) Door Recessed Two Walls Steam Heat [36" (914 mm)]
129390-211	26 x 37-1/2" Evolution Steam Ster. Double (Hinge) Door Recessed One Wall Electric Heat with Steam Generator [36" (914 mm)]
129390-212	26 x 37-1/2" Evolution Steam Ster. Double (Hinge) Door Recessed One Wall Steam Heat [36" (914 mm)]
129390-221	26 x 37-1/2" Evolution Steam Ster. Single (Hinge) Door Recessed One Wall Electric Heat with Steam Generator [36" (914 mm)]
129390-222	26 x 37-1/2" Evolution Steam Ster. Single (Hinge) Door Recessed One Wall Steam Heat [36" (914 mm)]
129390-223	26 x 37-1/2" Evolution Steam Ster. Single (Hinge) Door Cabinet Electric Heat with Steam Generator [36" (914 mm)]
129390-224	26 x 37-1/2" Evolution Steam Ster. Single (Hinge) Door Cabinet Steam Heat [36" (914 mm)]



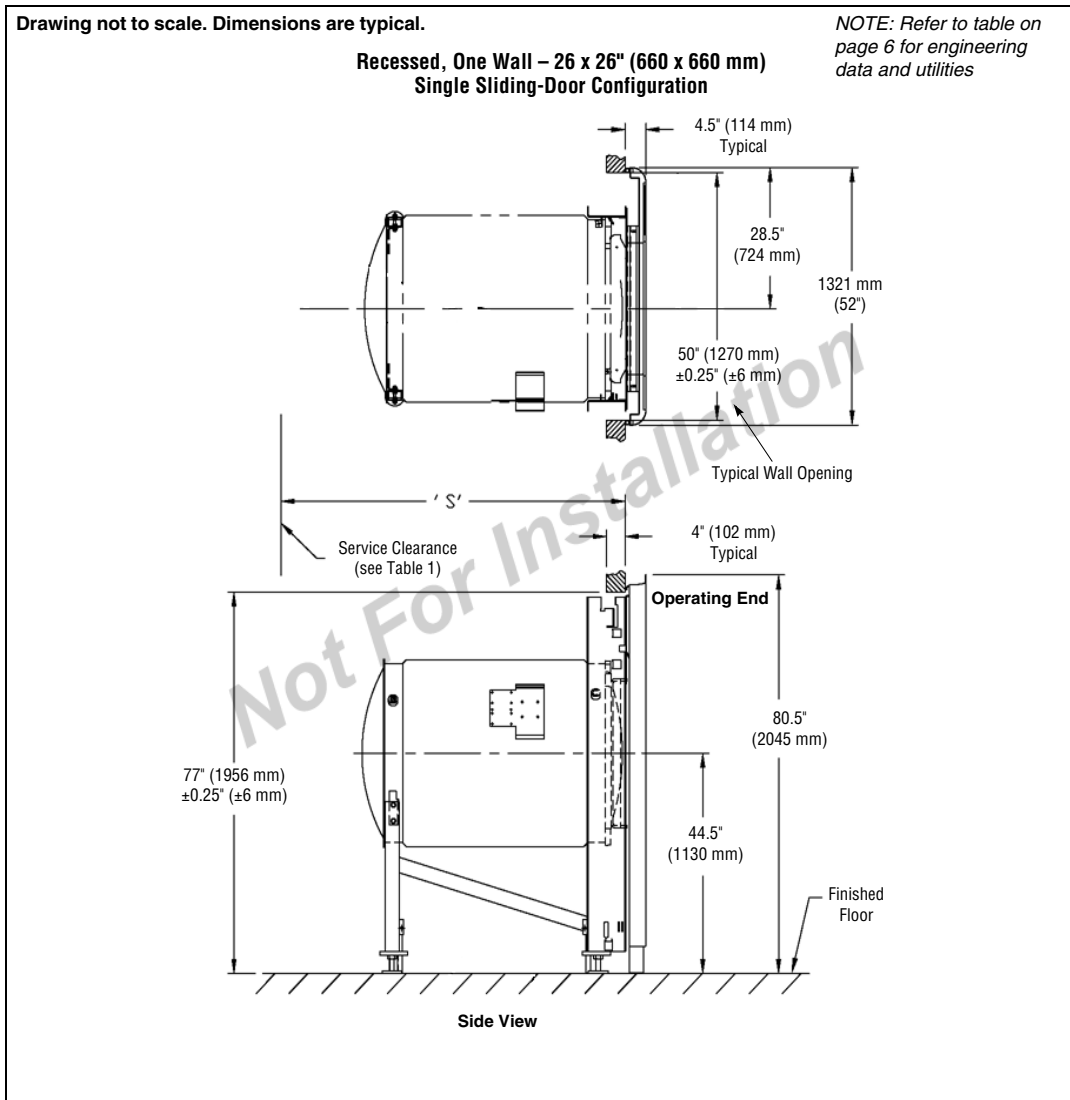
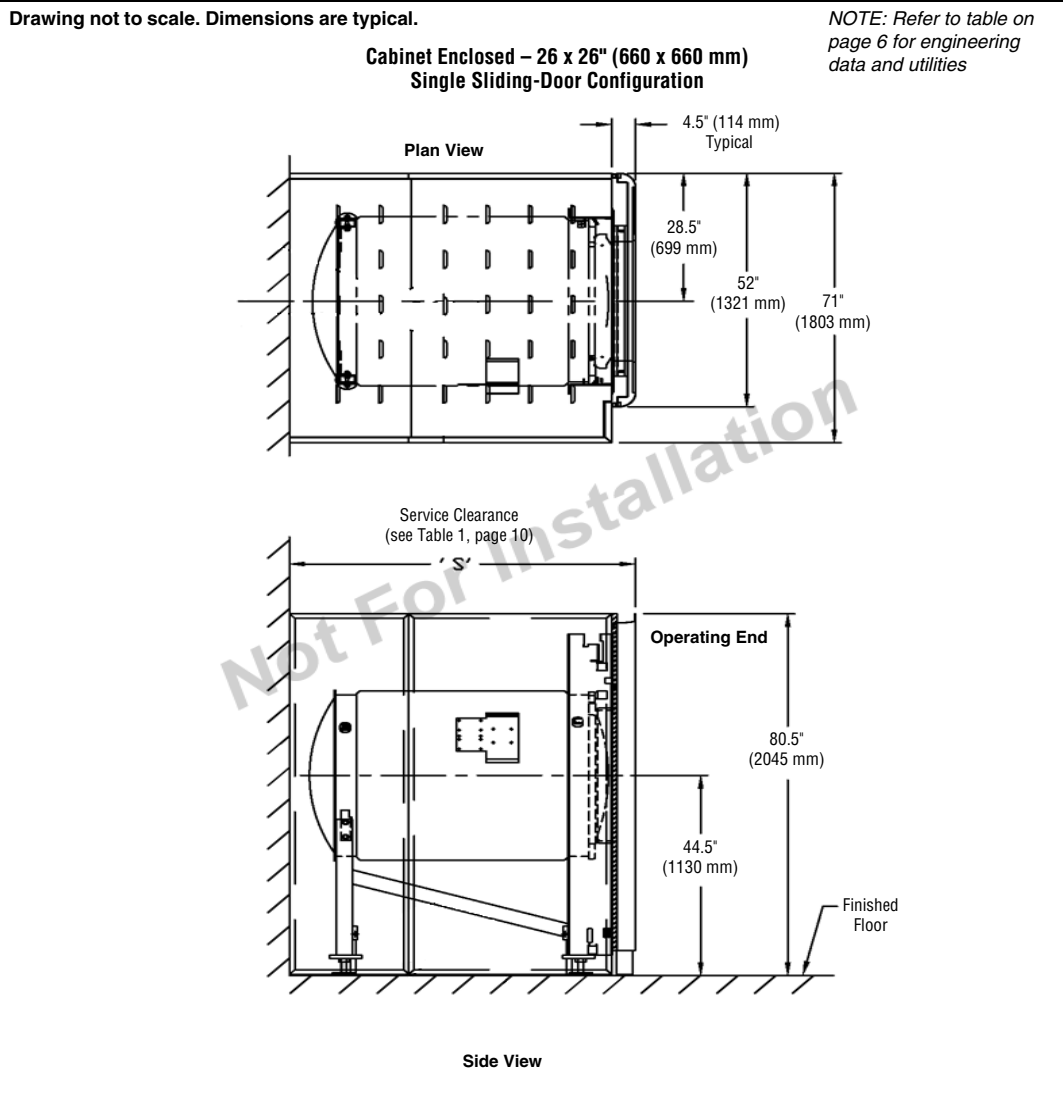


Table 1. 26 x 26" (660 x 660 mm) Sterilizer Service Clearance (Dimension "S")

Chamber Length	Recessed, Two Walls	Recessed, One Wall	Cabinet, Single Door
39" (991 mm)	46" (1168 mm)	46" (1168 mm)	N/A



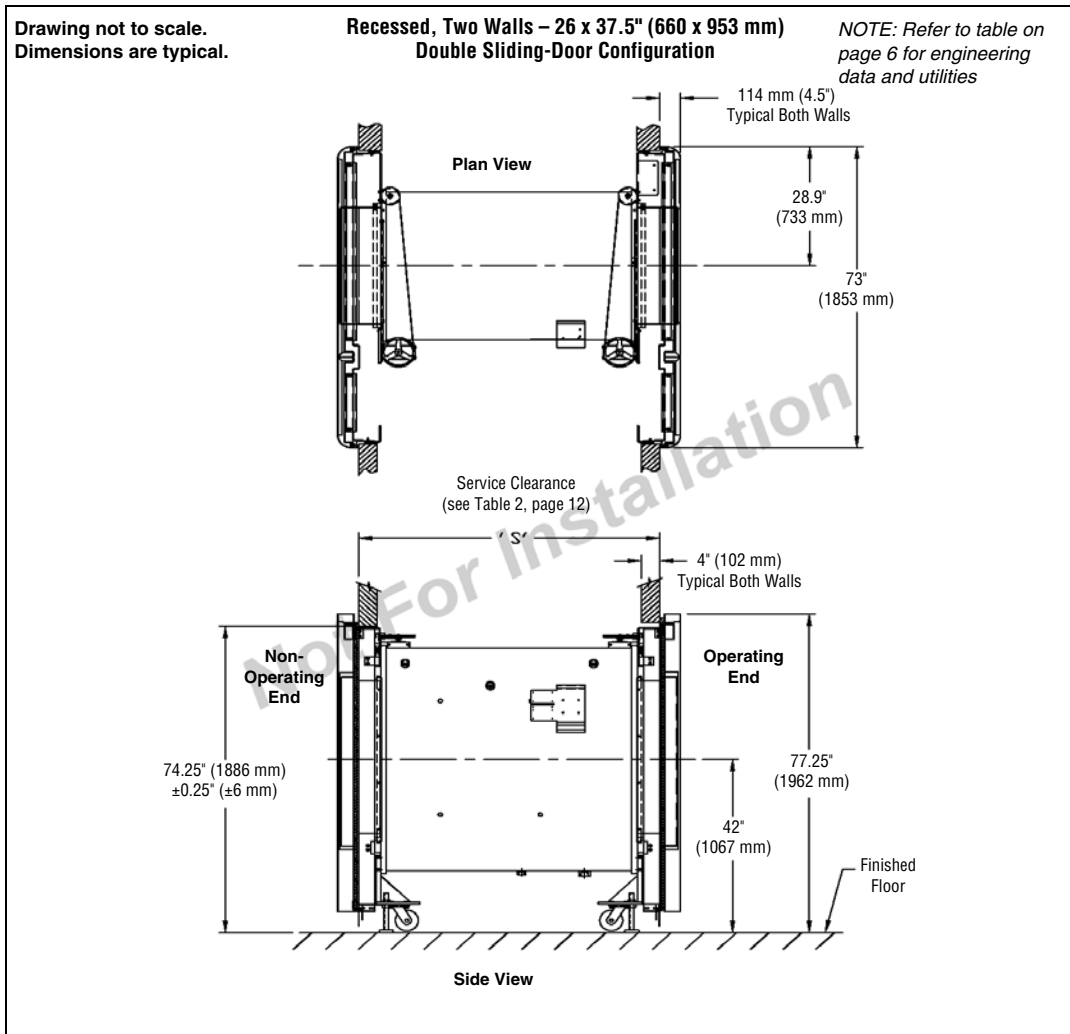
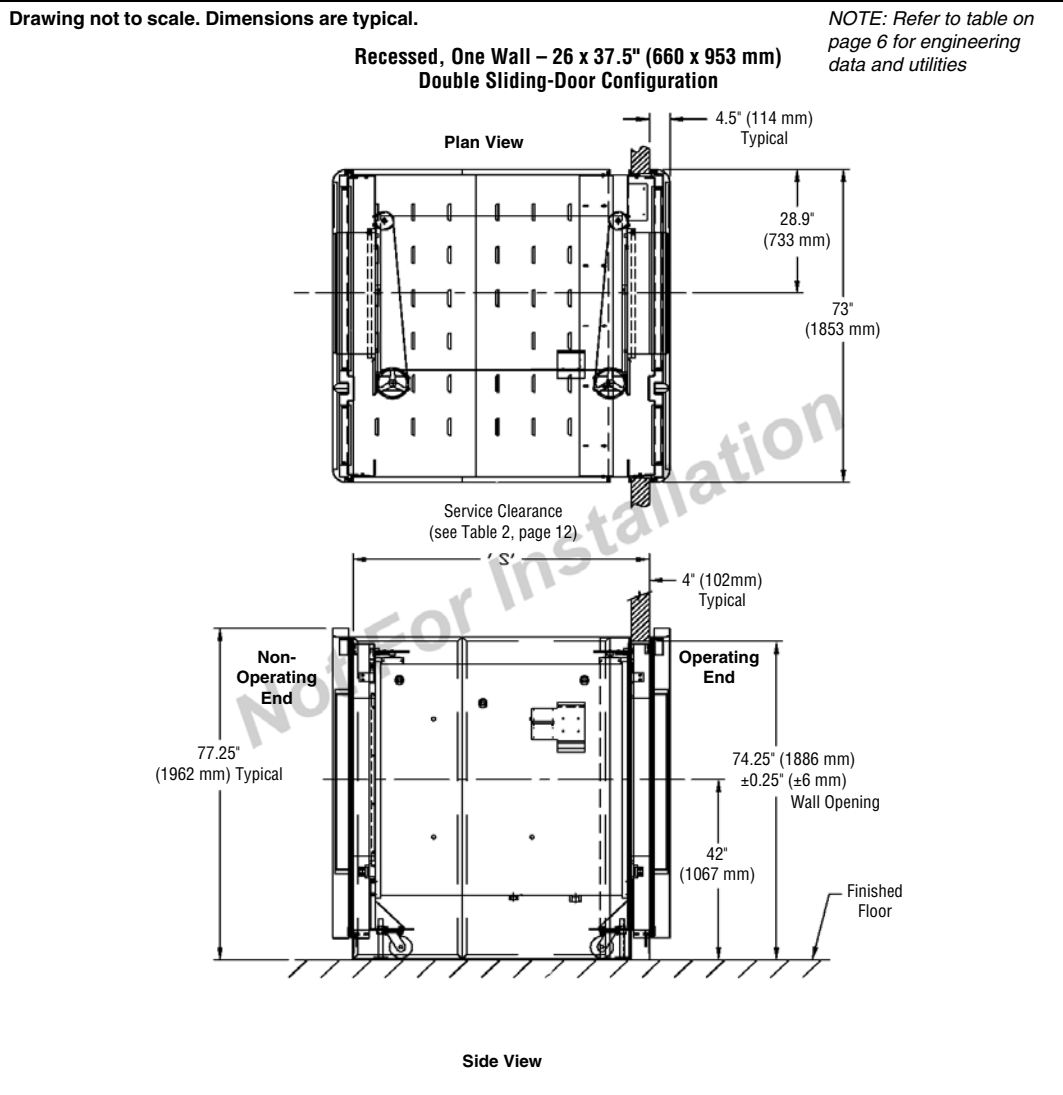


Table 2. 660 x 953 Sterilizer Service Clearance (Dimension "S")

Chamber Length	Double Door Recessed, One Wall	Double Door Recessed, Two Walls	Single Door Recessed, One Wall	Cabinet, Single Door
66" (1676 mm)	66" (1676 mm)	77.25" (1962 mm)	95.5" (2425 mm)	78.5" (1994 mm)



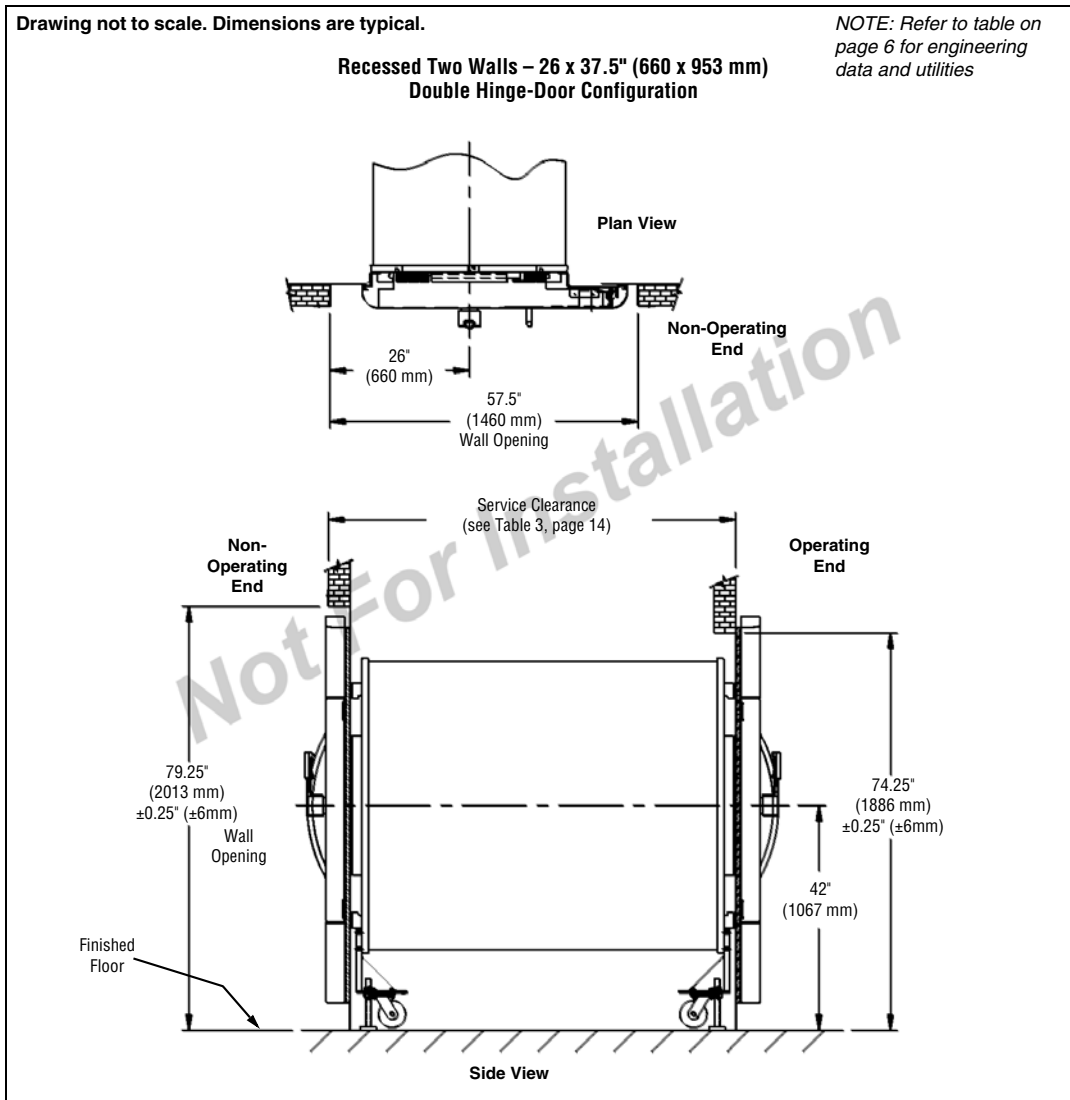
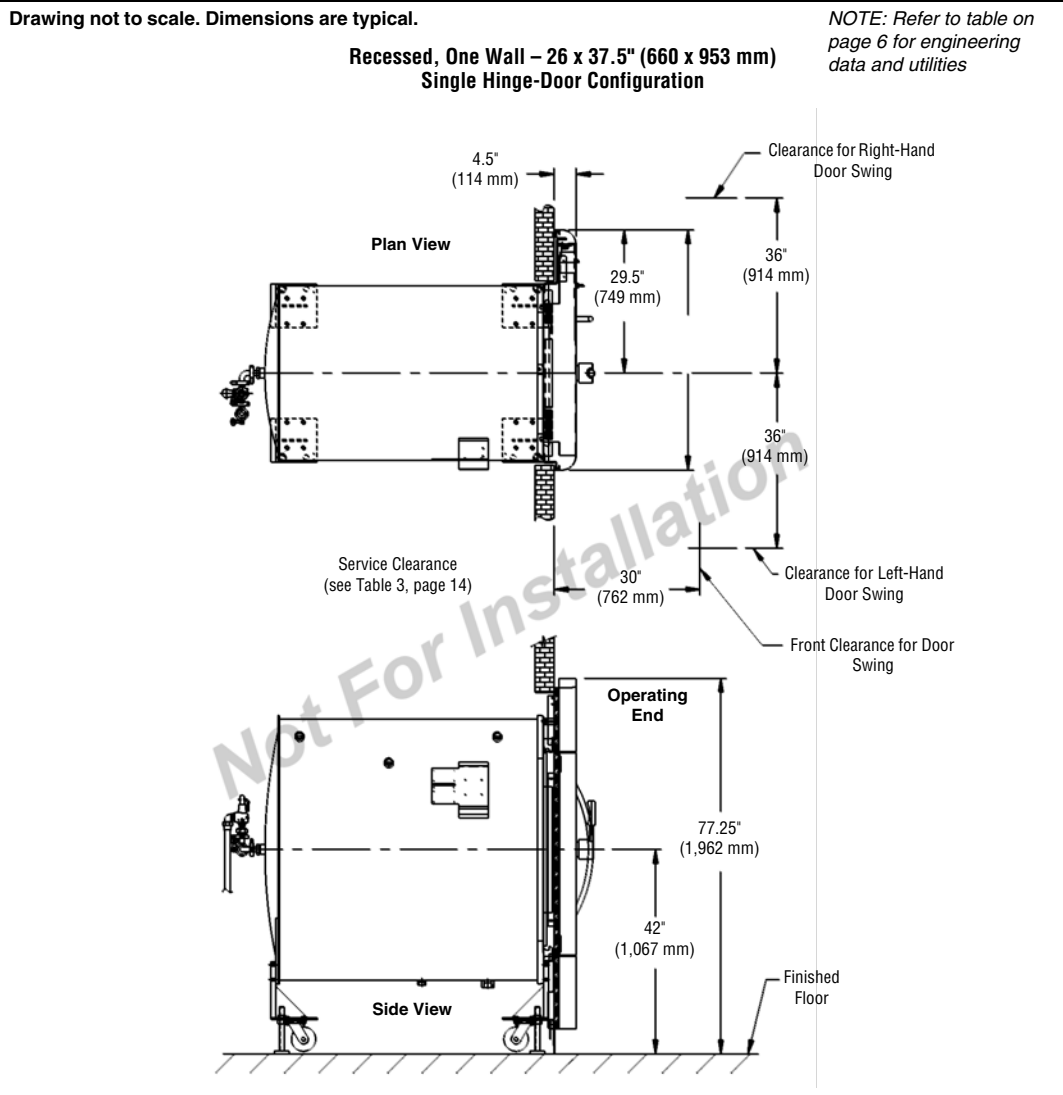


Table 3. 26 x 37.5 (660 x 953 mm) Hinge-Door Sterilizer Service Clearance

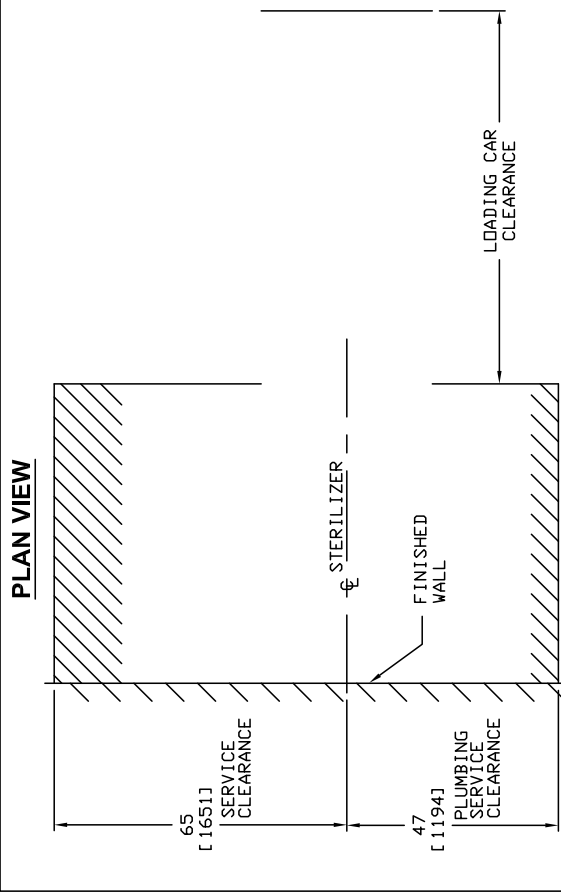
Chamber Length	Double Door Recessed, One Wall	Double Door Recessed, Two Walls	Single Door Recessed One Wall	Cabinet Single Door
66" (1676 mm)	72" (1829 mm)	76" (1930 mm)	96" (2435 mm)	83" (2121mm)



DATE 04-28-08 DRAWN BY E. S. CHECKED BY JMS
 E. C. A. NO. 090204 DATE 08-18-09 REV. 5 DWG. NO. 129390-204

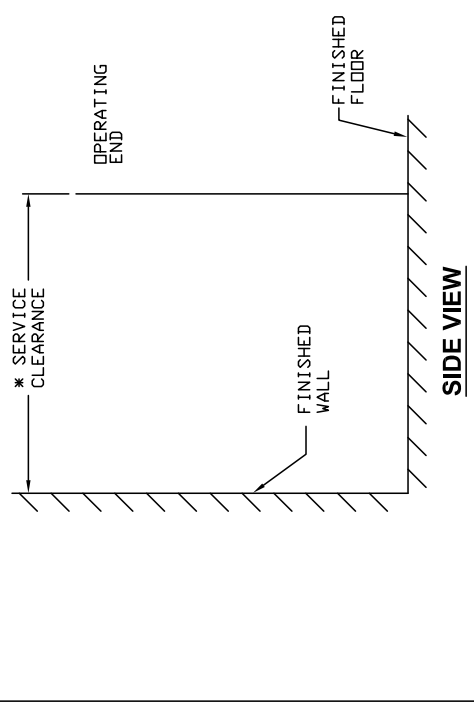
SIZE	* SERVICE CL.	LOADING CAR CL.
26 X 37.5 X 54 (660 X 953 X 1372)	70 (1778)	112 (2845)
26 X 37.5 X 66 (660 X 953 X 1676)	82 (2082)	123 (3124)

*** ADD 6" (152) TO SERVICE CLEARANCE
 IF STAINLESS PLUMBING UNIT IS USED**



NOTES:

1. ALL DIMENSIONS IN INCHES AND (MM).
2. THESE SERVICE CLEARANCES MUST BE MAINTAINED TO ALLOW ACCESS TO STERILIZER FOR SERVICEABILITY.
3. THE SHADED PLUMBING SERVICE CLEARANCE FLOOR SURFACE MUST BE SMOOTH WITH NO OBSTRUCTIONS (SUCH AS PIPING, WIRING, FLOOR SINKS, ETC.). THIS OBSTRUCTION FREE CLEARANCE MUST EXTEND TO A HEIGHT OF AT LEAST 77" (1965) IN ORDER TO PROPERLY SERVICE THE PIPING SKID. THE 47" PLUMBING SERVICE CLEARANCE SHOULD INCREASE TO 51" (1295) IF SPACE IS AVAILABLE.



LOADING CAR AND SERVICE CLEARANCE

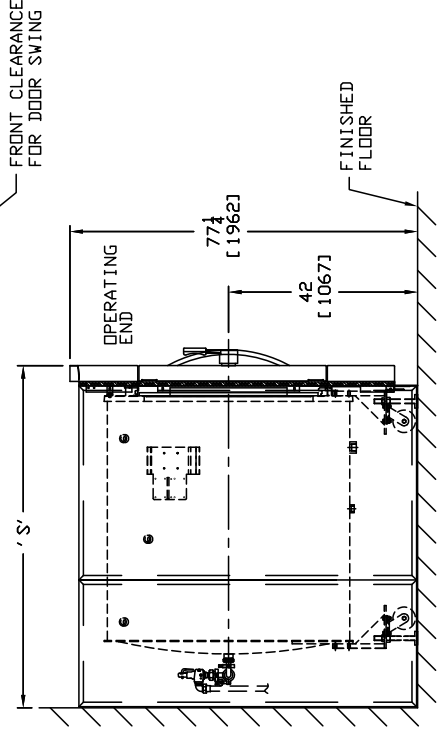
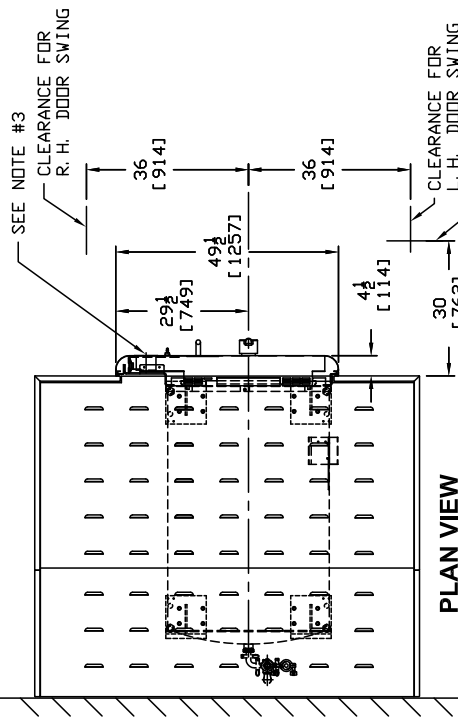
ALL DIMENSIONS ARE IN INCHES REFER TO EQUIPMENT DRAWING NO. 129390-204		EQUIPMENT DRAWING NO. 129390-204
DWG. NO. 62941-091 STERIS STERIS Corporation Mentor, OH		ITEM LOCATION S
26 x 37.5 x 54 and 66 EVOLUTION SINGLE (HINGE) DOOR CABINET STEAM HEAT		SHT. 1 OF 6

DATE 04-28-08 DRAWN BY E. S. CHECKED BY JMS E. C. A. NO. 090204 DATE 08-18-09 REV. 5 DWG. NO. 129390-204

SIZE	' S' +1/4 (-0)
26 X 37.5 X 54 (660 X 953 X 1372)	76 (1930)
26 X 37.5 X 66 (660 X 953 X 1676)	88 (2235)

GENERAL NOTES:

- ALL DIMENSIONS IN INCHES AND (MM).
- UNIT WIDTH IS 38" (965). DOOR OPENINGS IN FACILITY MUST BE 40" (1016) WIDE OR LARGER TO ACCOMMODATE STERILIZER.
- DISPLAY THIS SIDE FOR LH DOOR SWING AND OPPOSITE SIDE FOR RH DOOR SWING.
- CURB WEIGHTS:
 26 x 37.5 x 54 SD VESSEL = 3600 LBS. (1633 KG.)
 26 x 37.5 x 66 SD VESSEL = 3940 LBS. (1787 KG.)
 PIPING STAND = 525 LBS. (238 KG.)
- MAXIMUM OPERATING WEIGHT BASED ON CHAMBER FULLY LOADED WITH WATER FLASKS:
 26 X 37.5 X 54 - 4200 LBS (1901 KG)
 26 X 37.5 X 66 - 4700 LBS (2127 KG)
- FACILITY MUST PROVIDE REGULATED STEAM PRESSURE IN THE DYNAMIC RANGE SPECIFIED. FAILURE TO DO SO WILL RESULT IN IMPROPER EQUIPMENT OPERATION.
- HEAT LOSS AT 70°F (21°C):
 26 x 37.5 x 54 - TO ROOM: 14650 BTU/HR (15,457 KILLOJULE)
 26 x 37.5 x 66 - TO ROOM: 16800 BTU/HR (17,725 KILLOJULE)
- LEVELING FEET ARE PROVIDED FOR PROPER INSTALLATION.
- STERIS ASSUMES NO RESPONSIBILITY FOR CHANGES MADE NECESSARY THROUGH FAILURE TO OBSERVE THE SPECIFICATIONS ON EQUIPMENT DRAWING AND NOTE PAGES. SPECIFICATIONS AND DESCRIPTIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

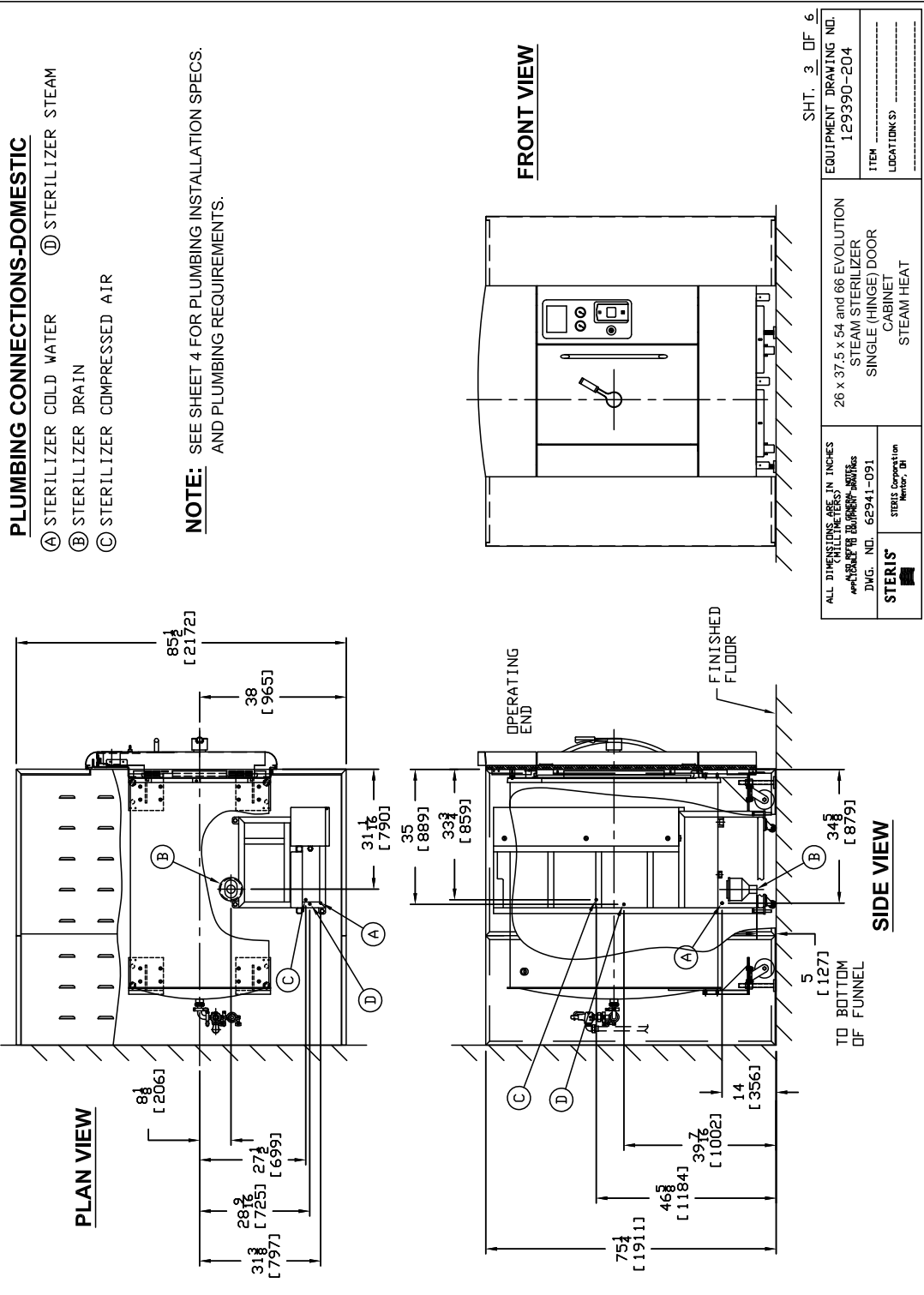


STERILIZER INSTALLATION

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED	EQUIPMENT DRAWING NO. 129390-204
DWG. NO. 62941-091	ITEM 26 x 37.5 x 54 and 66 EVOLUTION STEAM STERILIZER
STERIS STERIS Corporation Mentor, OH	LOCATION(S) SINGLE (HINGE) DOOR CABINET STEAM HEAT

SHT. 2 OF 6

DATE 04-28-08 DRAWN BY E. S. CHECKED BY JMS E. C. A. NO. 090204 DATE 08-18-09 REV. 5 DWG. NO. 129390-204



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED STERIS CORPORATION MENTOR, OH		EQUIPMENT DRAWING NO. 129390-204
26 x 37.5 x 64 and 66 EVOLUTION SINGLE (HINGE) DOOR CABINET STEAM HEAT		SHT. 3 OF 6
DWG. NO. 62941-091	ITEM LOCATION	LOCATION

DATE 04-28-08 DRAWN BY E. S. CHECKED BY JMS E. C. A. NO. 090204 DATE 08-18-09 REV. 5 DWG. NO. 129390-204

INSTALLATION SPECIFICATIONS:

- 1. THE INSTALLATION OF THE EVOLUTION STERILIZER MUST MEET ALL APPLICABLE REGULATIONS.
INSTALLATION SPECIFICATION IS LISTED AS ENGINEERING AND INSTALLATION GUIDES. REFERENCED COMPONENTS AND SERVICE CONNECTIONS ARE NOT FURNISHED AS PART OF EQUIPMENT UNLESS UNDER WRITTEN AGREEMENT WITH STERIS.
- 2. PIPE SIZES LISTED UNDER **PLUMBING REQUIREMENTS** INDICATE THE EQUIPMENT TERMINATION SIZES ONLY. SIZE PIPING TO EQUIPMENT DEPENDING ON LENGTH OF PIPE RUN FROM PRESSURE REGULATING STATION FOR STEAM LINE, AIR AND MAIN WATER HEADERS. TO SUPPLY THE SPECIFIED SERVICE PRESSURE AND FLOW RATE AT EQUIPMENT TERMINALS, INCLUDE EFFECT OF COINCIDENT DRAW OF MULTIPLE UNIT INSTALLATIONS.
- 3. PROVIDE PIPING, SHUT-OFF VALVE, PIPE PLUGGED TEE, AND UNION IN STEAM, AIR AND WATER SUPPLY CONNECTION BETWEEN EQUIPMENT AND STUB OUTS. PLUGGED TEE CAN LATER BE USED FOR TEST PRESSURE GAUGE CONNECTION. ARRANGE CONNECTION PIPING TO ALLOW ACCESS TO MACHINE COMPONENTS AND ELECTRICAL CONTROL PANEL.
- 4. RECOMMEND PROVISION OF BLOW DOWN VALVE AT EACH STEAM, AIR AND WATER STRAINER TO ENABLE STRAINER CLEAN OUT.
- 5. FOR RECOMMENDED FEED WATER QUALITY FOR STERILIZERS SEE STERIS DWG. NO. 62941-091
- 6. BLOW DOWN BUILDING STEAM, AIR AND WATER SUPPLY LINES BEFORE FINAL CONNECTION TO EQUIPMENT.
- 7. THE STERILIZER IS NOT SUPPLIED WITH A VACUUM BREAKER OR BACKFLOW PREVENTER AND WHERE REQUIRED BY LOCAL CODES, INSTALLATION OF SUCH A DEVICE IN WATER LINE IS BY OTHERS.
- 8. **CLEAN STEAM NOTE:** STEAM SUPPLIED TO STERILIZER MUST BE MADE FROM WATER FREE OF SULFITES, HYDRAZINE, ANTI-SCALING COMPOUNDS AND CORROSION CONTROL CHEMICALS.
- 9. FOR GENERAL INSTALLATION INFORMATION SEE STERIS DRAWING NO. 62941-091. (THIS DWG. SHOULD ALWAYS ACCOMPANY THE EQUIPMENT DWGS.) IF DWG. IS NOT ATTACHED, CONTACT STERIS SERVICE ENGINEERING AT 1-800-333-8848 TO OBTAIN A COPY.
- 10. **OPTIONAL AIR COMPRESSOR:** MEASURES 14" L x 14" W x 12" H AND OPERATES AT 120VAC, 60Hz, 6.9 AMPS. FOR USE ON ALL DOMESTIC EVOLUTION (HEALTHCARE) AND EVOLUTION-L (LAB-SCI) STERILIZERS EXCEPT FOR LAB-SCI DOUBLE DOOR UNITS.
- 11. **PLACEMENT OF PIPING SHUTOFFS:** WHEN INSTALLING SHUTOFFS MUST BE LOCATED IN A SUITABLE LOCATION WITHIN LINE OF SIGHT AND CLEAR OF ANY OBSTRUCTIONS THAT WOULD PUT THE SERVICE PERSON IN HARMS WAY IN ORDER TO SHUT IT OFF.

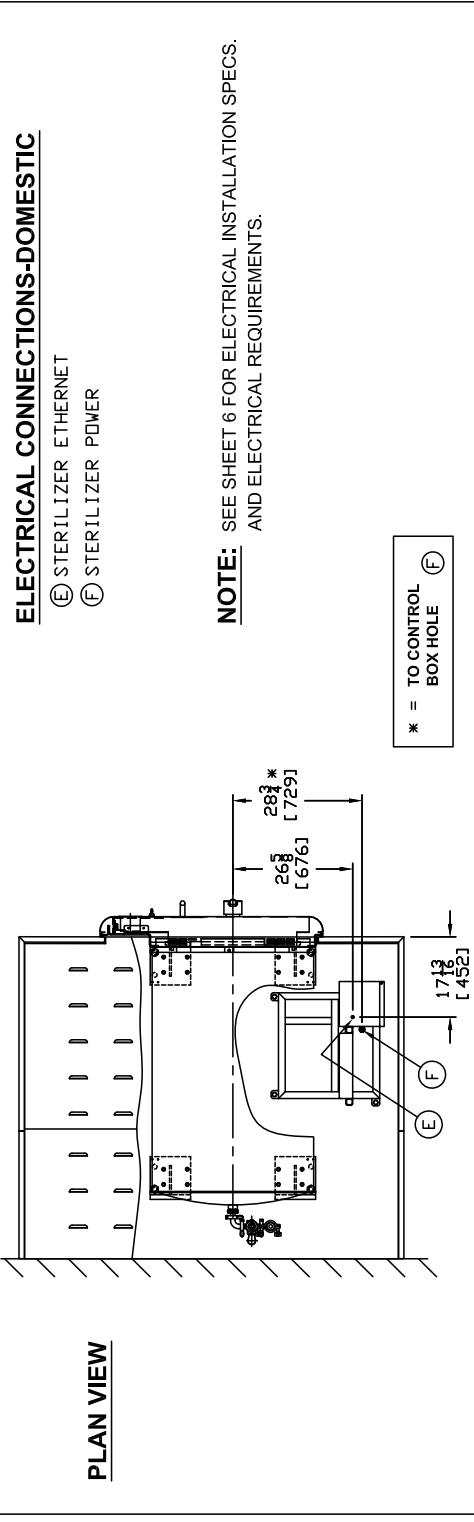
PLUMBING REQUIREMENTS-DOMESTIC

- (A) STERILIZER COLD WATER: (SEE NOTE #4)
SUPPLY TEMPERATURE REQUIREMENT IS 59°F (15°C) MAX. VACUUM EFFICIENCY IS REDUCED AT WATER TEMPERATURES ABOVE 70°F (21°C).
3/4" NPT
20-50 PSIG DYNAMIC (1.38-3.45 bar)
CONSUMPTION IN CYCLE:
PEAK- 13 gpm (49 lpm)
AVERAGE-26 X 37.5 X 54 207 gal/cycle (784 l/cycle)
26 X 37.5 X 66 250 gal/cycle (946 l/cycle)
CONSUMPTION OUT OF CYCLE:
AVERAGE-26 X 37.5 X 54 12 gal/hr (.8 lpm)
26 X 37.5 X 66 15 gal/hr (.9 lpm)
- (B) STERILIZER DRAIN:
2" ODT
(FLOOR DRAIN CAPACITY MUST HANDLE PEAK WATER CONSUMPTION).
- (C) STERILIZER COMPRESSED AIR: (SEE NOTE #9)
1/4" NPT
80-120 PSIG DYNAMIC (5.5-8.3 bar)
OIL FREE, DRY (DEHUMIDIFIED)
3 CFM (5.1 CMH)
- (D) STERILIZER STEAM:
3/4" NPT
97 TO 100% VAPOR QUALITY
DYNAMIC PRESSURE 50-80 PSIG (3.4-5.5 bar)
CONSUMPTION IN CYCLE:
PEAK- 310 PPH (141 kg/hr)
AVERAGE-26 X 37.5 X 54 82 lb/cycle (37 kg/cycle)
26 X 37.5 X 66 100 lb/cycle (45 kg/cycle)
CONSUMPTION OUT OF CYCLE:
AVERAGE-26 X 37.5 X 54 28 lb/hr (12.7 kg/hr)
26 X 37.5 X 66 34 lb/hr (15.4 kg/hr)

CHECK ALL NATIONAL CODES AND STANDARDS SHT. 4 OF 6

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED		EQUIPMENT DRAWING NO. 129390-204
DWG. NO. 62941-091	26 x 37.5 x 64 and 66 EVOLUTION STEAM STERILIZER SINGLE (HINGE) DOOR CABINET	ITEM 129390-204
STERIS STERIS Corporation Wayne, OH	STEAM HEAT	LOCATION(S)

DATE 04-28-08 DRAWN BY E. S. CHECKED BY JMS E. C. A. NO. 090204 DATE 08-18-09 REV. 5 DWG. NO. 129390-204



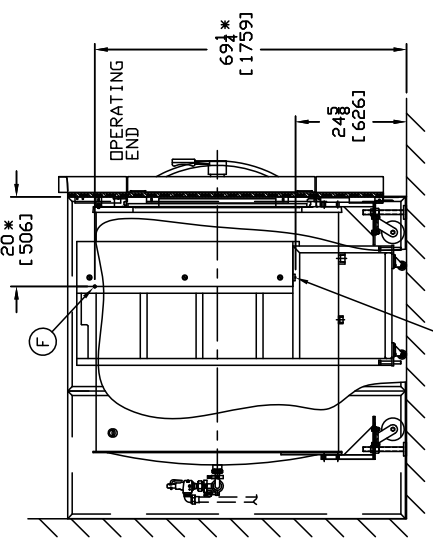
PLAN VIEW

ELECTRICAL CONNECTIONS-DOMESTIC

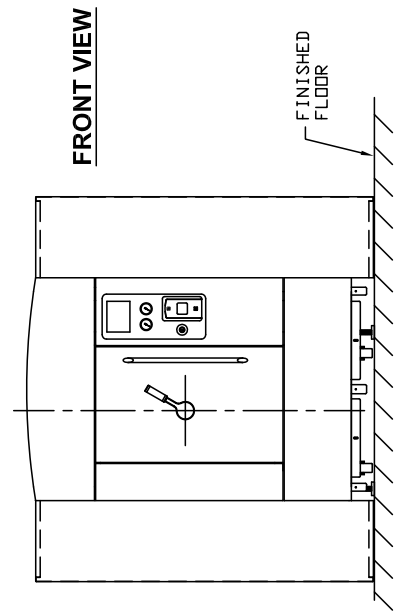
- (E) STERILIZER ETHERNET
- (F) STERILIZER POWER

NOTE: SEE SHEET 6 FOR ELECTRICAL INSTALLATION SPECS. AND ELECTRICAL REQUIREMENTS.

* = TO CONTROL BOX HOLE (F)



SIDE VIEW



FRONT VIEW

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED STERIS CORPORATION DNG. NO. 62941-091 STERIS CORPORATION Mentor, OH		EQUIPMENT DRAWING NO. 129390-204
26 x 37.5 x 64 and 66 EVOLUTION STEAM STERILIZER SINGLE (HINGE) DOOR CABINET STEAM HEAT		ITEM LOCATION(S)

SHT. 5 OF 6

AUTOCAD DWG

DATE 04-28-08 DRAWN BY E. S. CHECKED BY JMS E. C. A. NO. 090204 DATE 08-18-09 REV. 5 DWG. NO. 129390-204

INSTALLATION SPECIFICATIONS:

THE INSTALLATION OF THE EVOLUTION STERILIZER MUST MEET ALL APPLICABLE REGULATIONS.


INSTALLATION SPECIFICATION IS LISTED AS ENGINEERING AND INSTALLATION GUIDES. REFERENCED COMPONENTS AND SERVICE CONNECTIONS ARE NOT FURNISHED AS PART OF EQUIPMENT UNLESS UNDER WRITTEN AGREEMENT WITH STERIS.

1. PROVIDE GROUNDED OR GANGED CIRCUIT PROTECTION AND DISCONNECT FOR STERILIZER POWER (E) AS REQUIRED BY CODES AND STANDARDS. INDIVIDUAL POWER SHUTOFFS REQUIRED NEAR EACH MACHINE FOR SERVICING.
2. PROVIDE GROUNDED METAL CONDUIT AND WIRING BETWEEN EQUIPMENT TERMINALS AND STUB OUTS OR DISCONNECTS. CHECK LOCAL CODES FOR MINIMUM WIRE SIZES. SEE (E) FOR MINIMUM RECOMMENDED WIRE SIZES FOR STERILIZER CONNECTIONS.
3. FOR GENERAL INSTALLATION INFORMATION SEE STERIS DRAWING NO. 62941-091. (THIS DWG. SHOULD ALWAYS ACCOMPANY THE EQUIPMENT DWGS.) IF DWG. IS NOT ATTACHED, CONTACT STERIS SERVICE ENGINEERING AT 1-800-333-8848 TO OBTAIN A COPY.
4. **PLACEMENT OF ELECT. DISCONNECTS:** WHEN INSTALLING DISCONNECTS MUST BE LOCATED IN A SUITABLE LOCATION WITHIN LINE OF SIGHT AND CLEAR OF ANY OBSTRUCTIONS THAT WOULD PUT THE SERVICE PERSON IN HARMS WAY IN ORDER TO SHUT IT OFF. ALSO, THE LOCATION OF THE DISCONNECTS SHOULD ALLOW THE SERVICE PERSON TO SHUTOFF POWER FROM THE SIDE TO PREVENT POSSIBLE ARC FLASH.

ELECTRICAL REQUIREMENTS-DOMESTIC

- (E) STERILIZER ETHERNET:
10/100 BASE T SUPPORTING TCP/IP PROTOCOL RJ45F CONNECTION
- (F) STERILIZER POWER:
DOMESTIC:
208/240V, 50/60HZ, 12A, (3) PHASE. MINIMUM 16A CIRCUIT BREAKER RECOMMENDED. MINIMUM RECOMMENDED LINE & GROUND CONDUCTOR SIZE AWG #12 COPPER (2.05 MM)
OR 480V, 50/60HZ, 6A, (3) PHASE. MINIMUM 8A CIRCUIT BREAKER RECOMMENDED. MINIMUM RECOMMENDED LINE & GROUND CONDUCTOR SIZE AWG #14 COPPER (1.63 MM)
- 208VAC AND 240VAC REQUIRE A FOUR (4) WIRE "Y" CONNECTION (L1, L2, L3, GND.)
- 480VAC REQUIRE A FIVE (5) WIRE "Y" CONNECTION (L1, L2, L3, NEUT, GND.)

CHECK ALL NATIONAL CODES AND STANDARDS SHT. 6 OF 6

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED		EQUIPMENT DRAWING NO. 129390-204
DWG. NO. 62941-091		ITEM LOCATION(S)
STERIS 	STERIS Corporation Mentor, OH	SINGLE (HINGE) DOOR CABINET STEAM HEAT

AUTOCAD DWG

GENERAL NOTES – APPLICABLE TO STERILIZER EQUIPMENT DRAWINGS

INTRODUCTION

Each equipment drawing (enclosed) pertains to the sterilizing equipment as specified or purchased by you. These general notes and recommendations are intended to complement the equipment drawing(s) and thereby further assist you in achieving satisfactory installation of the equipment. The information on this and the enclosed drawing(s) is based upon the design and construction of the equipment as of the date of the drawing.

SPACE CONSIDERATIONS

Clearances

The clearance dimensions shown on each drawing are the minimum considered necessary to allow space for servicing and operating the equipment.

Clearance in front of sterilizer, for comfortable loading and unloading operations, should equal about twice the inside length of the sterilizer chamber unless otherwise specified on Equipment Drawing.

Dimensions

Attention must be given to all *printed dimensions* shown on each drawing, since no attempt has been made to hold these drawings to any specific scale.

MOUNTING DETAILS

Wall Thickness - Recessed Sterilizer

STERIS must be advised of the total finished thickness of the wall or walls through which the sterilizer will extend.

Wall Thickness – Amsco® Modular Wall

If the drawing pertains to an **Amsco Modular Wall**, STERIS must be advised of the overall width and height of the wall opening that the modular wall is to cover.

Recessing Cubicle

- **Ventilation.** It is recommended that a louvered, grilled opening be provided in the curtain wall above the sterilizer(s) to dispel excess vapor by negative pressure behind the wall. If **Amsco Modular Wall** has been specified, this opening will not be required.

The recessing cubicle should be adequately ventilated to maintain temperature in the range of 80° to 90°F (27° to 32°C) when the equipment is in operation.

- **Access.** Access to recessed service area from control end of the sterilizer is recommended.
- **Illumination.** Illumination designed to afford 50 to 100 footcandles of total illumination, evenly distributed in principal areas of the recessing cubicle, should be provided.
- **Service Power Requirement.** One convenience outlet (110-120 Volts) is required for power tools.
- **Drainage.** A floor drain or floor sink is recommended for each cubicle and should be provided within confines of sterilizer framework.

Space Between Recessed Sterilizers

For a multiple (composite) sterilizer installation through a constructed wall (not Amsco Modular Wall), a minimum of 10" (254 mm) clearance between the front panels is recommended.

Cabinet-enclosed Sterilizer

Cabinet-enclosed units should be located in a well-ventilated room from which heat and steam vapors may be dispelled rapidly. A separate floor drain is recommended for each cabinet-enclosed sterilizer, to be located within the confines of the sterilizer framework.

UTILITY SERVICE REQUIREMENTS

Roughing-in

All lines should be short-stubbed through the floor, wall or ceiling, far enough to permit coupling with stop valves. Provisions must be made for short-swing connections to equipment terminals. Piping outlets (stubbing) for equipment mounted in combination (composite installations) should be combined in one common set, usually at rear of the equipment.

It is recommended that pipes and conduit *not* be stubbed through the floor under the chamber of a recessed sterilizer. This recommendation would not preclude the stubbing of pipes and conduit through the floor within the confines of the *panels* on a cabinet-enclosed sterilizer.

Terminal Fittings

Unless otherwise specified in the contract or purchase order, piping and other appurtenances between terminal fittings on the equipment and wall or floor outlets (stubbing) are not furnished by STERIS.

Pipe Sizes

Pipe sizes listed on equipment drawing indicate the equipment termination sizes only. Size of supply piping is dependent on length of pipe run from pressure regulating station for steam line and main water headers, to ensure adequate supply service pressure and demand flow at equipment terminals. Effect of coincident draw of multiple unit installations must also be considered.

Pressure Relief Valves

STERIS recommends piping all chamber relief valves to a vented manifold outside the equipment service area. Caution must be exercised not to reduce the discharge capacity of the relief valve. Plumbing must be such that removal of sterilizer parts, including relief valve, does not require unsoldering or cutting of new piping.

Recommended piping practices for relief valve piping can be found in ASME Boiler and Pressure Vessel Code (Section VIII, Para. UG-135).

Backflow Preventer

If local codes require a reduced pressure principle device on water supply line, it shall be provided by others.

Blow Down Valve

Recommend provisions of blow down valve at each steam and water strainer to enable strainer clean out.

Blow down building steam and water supply lines before final connection to equipment.

Shutoff Valves

Provide piping shutoff valve, pipe plugged tee and union in steam and water supply connections between equipment and stub outs, so that the unit can be serviced without interruptions of supply to other equipment. Plugged tee can be used later for test

pressure gauge connection. Arrange connection piping to allow access to machine components and electrical control panel.

Steam and Water Pressures

Steam and water pressures indicated on each drawing are to be dynamic at the sterilizer.

Steam should be condensate free and between 97 and 100% saturated vapor to ensure proper goods drying.

Sterilizer is adequately equipped to operate on the pressures listed in the equipment drawing. If supply line pressure exceeds those shown, provide reducing valves. These are not furnished by STERIS unless specifically called for in the contract or purchase order.

Water Quality

- **Water Supply to Sterilizer.** Water is used for ejectors, heat exchangers and trap cooling. Refer to Table 1 for recommended water quality. Use of feed water within the nominal conditions will optimize equipment performance and reduce maintenance.

- **Carbon Steel Steam Generator Feed Water.** Refer to Table 2 for required water quality. Use of feed water within the nominal conditions will optimize equipment performance and reduce maintenance.

- **Stainless Steel Steam Generator Feed Water.** Requires dionized, distilled or reverse osmosis water with minimum resistivity of 1 megohm/cm.

NOTE: Do not connect tap water to stainless steel generator. Use of water not meeting the required feed water quality will invalidate the warranty, and is a violation of ASME boiler codes.

Table 1. Recommended Feed Water Quality for Sterilizers		
Condition	Nominal Conditions	Maximum Conditions
Temperature	40-60°F (4-16°C)	70°F (21°C)
Total Hardness as CaCO ₃ *	50-120 mg/L	171 mg/L
Total Dissolved Solids	100-200 mg/L	500 mg/L
Total Alkalinity as CaCO ₃	70-120 mg/L	180 mg/L
pH	6.8-7.5	6.5-8.5
Total Silica	0.1 - 1.0 mg/L	2.5 mg/L

* 17.1 mg/L = 1 grain hardness

Table 2. Required Feed Water Quality for Carbon Steel Steam Generators		
Condition	Nominal Conditions	Maximum Conditions
Temperature	140°F (60°C)	40-140°F (4-60°C)
Total Hardness as CaCO ₃ *	0-17 mg/L	130 mg/L
Total Dissolved Solids	50-150 mg/L	250 mg/L
Total Alkalinity as CaCO ₃	50-100 mg/L	180 mg/L
pH	6.8-7.5	6.5-8.5
Total Silica	0.1 - 1.0 mg/L	2.5 mg/L
Resistivity - ohms/cm**	2000-6000	26000

* 17.1 mg/L = 1 grain hardness

** WARNING - BURN HAZARD: Sterilizer operator may be severely burned by scalding water if the water level control malfunctions. The steam generator level control may malfunction if the supply water exceeds 26,000 ohms/cm (38.5 micro-mhos conductivity min.). Do not connect to treated water (e.g., distilled, reverse osmosis, deionized) unless water resistivity is determined to be acceptable. If water exceeds 26,000 ohms/cm, contact STERIS Engineering Service for information concerning modifications required to the generator control system.

Venting Sterilizer To Atmosphere

If sterilizer has an atmospheric vent fitting (in lieu of a condenser), it should be connected to a vertical, unrestricted atmospheric vent stack. When more than one sterilizer is connected to a single vent stack, a self-draining header may be used. At no time should any riser from the sterilizer exhaust terminal to the header or vent stack be less than 45° to the horizontal. If more than one sterilizer is connected by header to riser, header is to drain toward sterilizer at 45° angle. Header and riser are to increase in size accordingly.

Wiring Terminals

Wiring on the equipment terminates at a junction box or boxes as shown on each drawing. Wiring and other appurtenances between junction box (or boxes) and building service lines are not furnished by STERIS.

Disconnect Switches

Disconnect switches with off position lockout only must be furnished and installed by the Customer in electric supply lines near the equipment.

Steam Return Lines

Steam return lines from the sterilizer jacket should be connected to a gravity system piped to a vented receiver. Avoid any piping arrangement that could cause back pressure in the return line. (This would not apply if steam return lines were specified to be piped into the sterilizer condenser system or waste line.)

Motors

In providing electric service for motors, conductors should be sized to conform to the National Electrical Code specifications for rated motor current and motor branch circuit capacity, adjusted for ambient temperature conditions (for 3/4 HP and over) and voltage drop.

IMPORTANT

STERIS assumes no responsibility for changes made necessary through failure to explicitly observe these instructions and recommendations. In all instances, local, county, state, and national regulations should be observed.

SEISMIC ANCHORAGE REPORT
Amsco Evolution 26 x 37.5 Steam
Sterilizer
P/N: 083280-216



REVISION RECORD					
Rev. Num.	Revision Date	PER/RA/ECA Number	Changed By	Engr'g. Approval	Manuf'g. Approval
0	02-17-09	090033	TTJ	KJT	VGM
1	05-18-12	120072	CG	JG	JCM

Rev. No. Rev. Date Drawing No. Desc.

AMSCO EVOLUTION 26" X 37.5" SERIES
STEAM STERILIZERS

Model Dwg No. Equipment Dwg No.

EQUIPMENT DESCRIPTION, 26" X 37.5" STERILIZER

The Amsco Evolution 26" x 37.5" Series sterilizer (steam) is a 26x37.5 inch vessel, 42, 54, or 66 inches long. It may be single door with a backhead, or double door. The door is either a manually operated hinged door or a power operated horizontal sliding door.

REPORT SUMMARY

Pages 3 through 8 are reproductions of the equipment anchorage for the Amsco Evolution 26" x 37.5" Series sterilizer.

Rev No Rev Date Drawing No Page



EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING
 5877 Pine Ave, Ste. 210
 Chino Hills, CA. 91709
 Phn: (909) 606-7622 Fax: (866) 801-4975

Sheet 1 of 6

Office of Statewide Health Planning and Development
ANCHORAGE PRE-APPROVAL
OPA-2092-10

THIS PRE- APPROVAL CONFORMS TO THE 2010 CALIFORNIA BUILDING CODE

Equipment Manufacturer: Steris Corporation

Equipment Type: Amsco Evolution 26 x 37.5 Steam Sterilizer

GENERAL NOTES

1. EXPANSION ANCHORS:

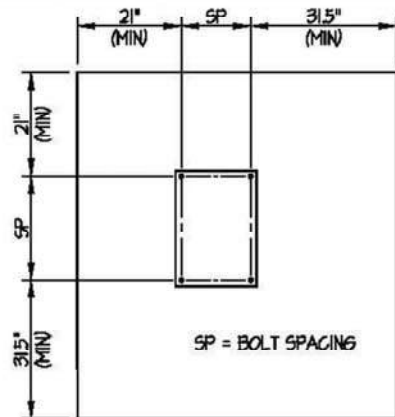
- (a) ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

Anchor Diameter	Concrete Type	Min. Fc (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Installation. Torque	Test Loads
3/4"	Hardrock	3000	Hilti Kwik Bolt TZ	ESR-1917	4-3/4"	18"	21"	8"	40 FT-LBS	Direct Pull Tension - 5874 lbs

- (b) THIS PRE-APPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 21" AWAY MINIMUM (i.e. - CORNER). SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE EDGE DISTANCES.

2. TESTING OF EXPANSION ANCHORS PER 2010 CBC, 1916A.7 : TENSION TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO OSHPD

- (a) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, DIRECT PULL TENSION TEST AT LEAST 50% OF THE ANCHORS.
- (b) ACCEPTANCE CRITERIA: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE TEST LOAD. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER BECOMES LOOSE.
- (c) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.



TYPICAL CONCRETE EDGE DETAIL



APPROVED
 Fixed Equipment Anchorage
 Office of Statewide Health Planning and Development

OPA-2092-10
 Pre-approval Program Manager:
 Anthony R. Pike
 (916) 440-8470

P E N D I N G

Reviewed By: Anthony R. Pike 11/30/11

Rev. No. Rev. Date Drawing No. Desc.



EASE
EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING
5877 Pine Ave, Ste. 210
Chino Hills, CA. 91709
Phn: (909) 606-7622 Fax: (866) 801-4975

Sheet 2 of 6

**Office of Statewide Health Planning and Development
ANCHORAGE PRE-APPROVAL**

OPA-2092-10

THIS PRE- APPROVAL CONFORMS TO THE 2010 CALIFORNIA BUILDING CODE

Equipment Manufacturer: Steris Corporation

Equipment Type: Amsco Evolution 26 x 37.5 Steam Sterilizer

GENERAL NOTES (CONTINUED)

- 3. FORCES PER ASCE 7-05 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE $S_{ds} = 2.0$, $a_p = 1.0$, $I_p = 1.5$ & $R_p = 2.5$, $z/h = 0.0$ AT CONCRETE SLAB & $z/h = 1.0$ AT CONCRETE ON METAL DECK.
- 4. THIS PRE-APPROVAL CONFORMS TO THE 2010 CALIFORNIA BUILDING CODE.
- 5. THIS PRE-APPROVAL COVER ONLY THE ANCHORAGE OF THE EQUIPMENT TO THE HOSPITAL BUILDING'S STRUCTURE.
- 6. ALL ANCHOR FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING

- 7. VERIFY THAT PROJECT SPECIFIC VALUES OF S_{ds} & z/h RESULT IN SEISMIC FORCES (E_h, E_v) THAT DO NOT EXCEED THE VALUES ON THE DETAILS.
- 8. VERIFY THAT THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE REQUIREMENTS OF THE APPLICABLE ICC ESR
- 9. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS (SEE TYPICAL DETAIL ON SHEET 1).
- 10. VERIFY THAT ALL NEW OR EXISTING ANCHORS ARE AN ADEQUATE DISTANCE FROM THE ANCHORS SHOWN IN THIS PRE-APPROVAL. SEOR SHALL VERIFY THAT THERE IS NO ADVERSE INTERACTION WHERE OTHER ANCHORS ARE WITHIN $18"$ OR $8h_{ef}$ FROM THIS UNIT'S ANCHORS
- 11. DESIGN BACKING PLATES, STUDS, ETC TO WHICH THE EQUIPMENT IS ATTACHED, AS NOTED ON THE DRAWINGS.
- 12. PROVIDE SUPPORTING STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS. VERIFY THE ADEQUACY OF THE STRUCTURES (SUCH AS WALLS AND FLOORS) WHICH SUPPORT THE EQUIPMENT FOR THE LOADS IMPOSED ON THEM BY THE EQUIPMENT IN ADDITION TO ALL OTHER LOADS.
- 13. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2010 CBC AND WITH THE DETAILS SHOWN IN THIS PRE-APPROVAL. VERIFY THAT THE ACTUAL EQUIPMENT'S WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS, AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.

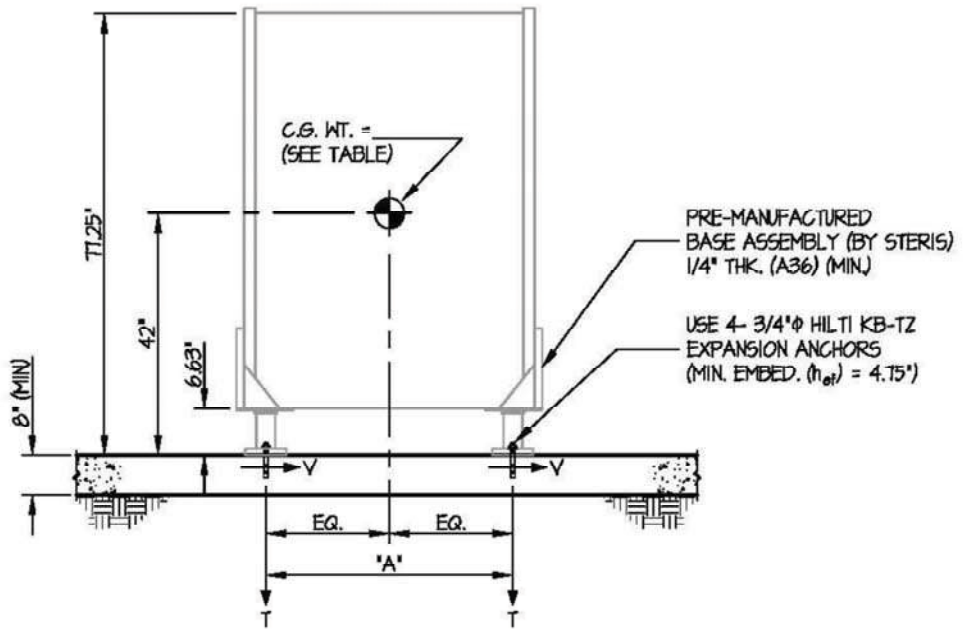


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Fixed Equipment Anchorage Office of Statewide Health Planning and Development	
OPA-2092-10	
Pre-approval Program Manager: Anthony R. Pike (916) 440-8470	
P E N D I N G	
Reviewed By: Anthony R. Pike	11/30/11

EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.equipmentanchorage.com		
STERIS CORPORATION	DES. J. ROBERSON	SHEET 3
AMSCO EVOLUTION 26x37.5 STEAM STERILIZER	JOB NO. 14-1121	OF 6 SHEETS
	DATE 11/30/11	

SEISMIC ANCHORAGE

CONCRETE SLAB



ELEVATION
SEE SHEET 2 OF 2 FOR BOLT FORCES

NOTES

1. FORCES ARE DETERMINED PER 2007 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13. STRENGTH DESIGN IS USED.
 HORIZONTAL FORCE (E_H) = $0.90 W_p$ ($S_{DS} = 2.00, a_p = 10, I_p = 15, R_p = 2.5, z/h \leq 10$)
 VERTICAL FORCE (E_V) = $0.40 W_p$
2. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS CALCULATION ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
3. STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.



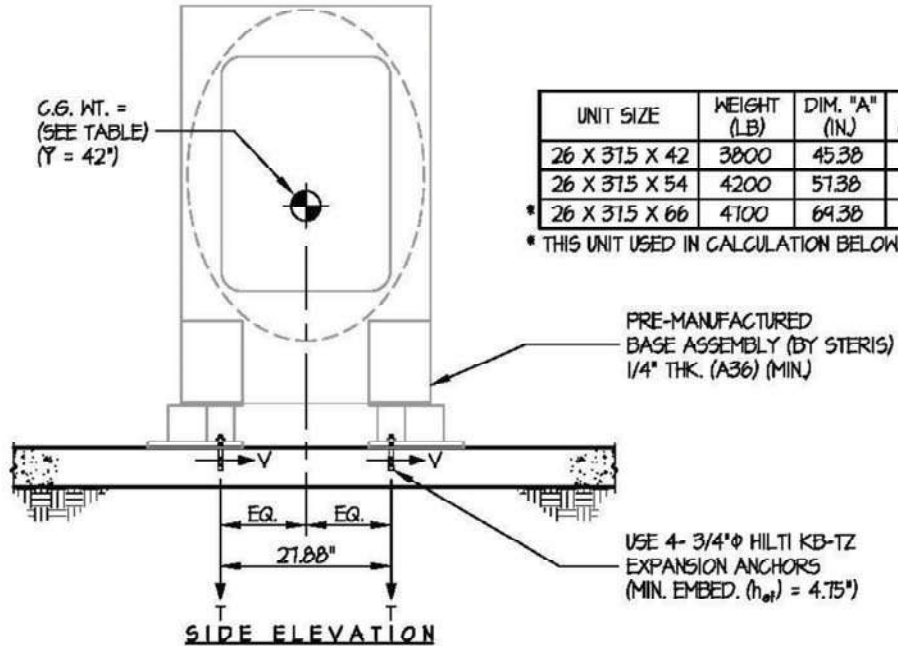
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Pre-approval Program Manager: Anthony R. Pike (916) 440-8470	
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Reviewed By: Anthony R. Pike	11/30/11

Rev. No. Rev. Date Drawing No. Desc.

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STERIS CORPORATION	DES. J. ROBERSON	SHEET 4
AMSCO EVOLUTION 26x37.5 STEAM STERILIZER	JOB NO. 14-1121	OF 6 SHEETS
	DATE 11/30/11	

SEISMIC ANCHORAGE

CONCRETE SLAB



UNIT SIZE	WEIGHT (LB)	DIM. "A" (IN.)	T _u (LB/BOLT)	V _u (LB/BOLT)
26 X 315 X 42	3800	45.38	2576	1710
26 X 315 X 54	4200	57.38	2737	1840
* 26 X 315 X 66	4700	69.38	2982	2115

* THIS UNIT USED IN CALCULATION BELOW.



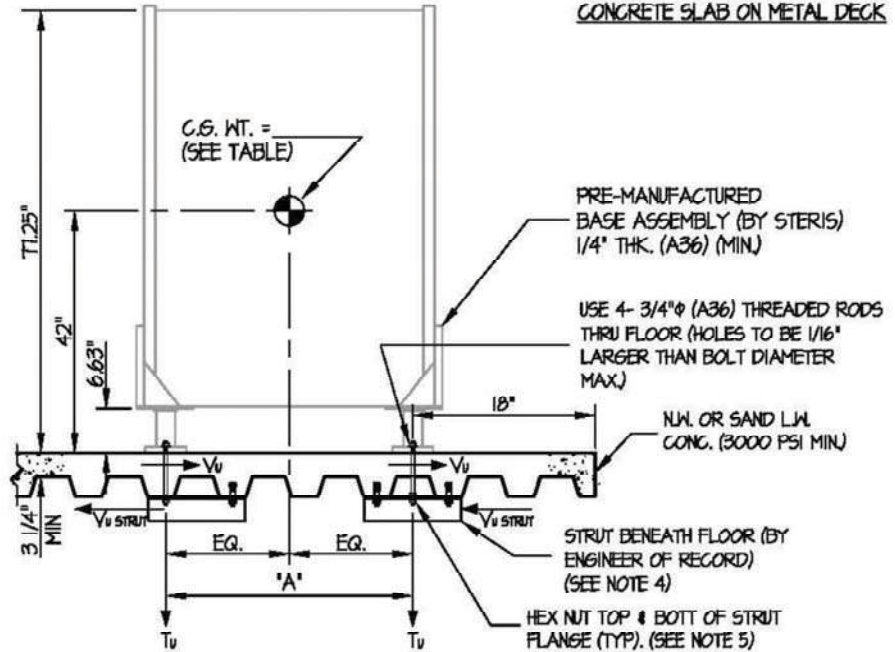
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Reviewed By: Anthony R. Pike	11/30/11

Rev. No. Rev. Date Drawing No. Desc.

EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.equipmentanchorage.com	STERIS CORPORATION	DES. J. ROBERSON	SHEET 5
	AMSCO EVOLUTION 26x37.5 STEAM STERILIZER	JOB NO. 14-1121	OF 6 SHEETS
		DATE 11/30/11	

SEISMIC ANCHORAGE

CONCRETE SLAB ON METAL DECK



ELEVATION

SEE SHEET 2 OF 2 FOR BOLT FORCES

NOTES:

- FORCES ARE DETERMINED PER 2010 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13. STRENGTH DESIGN IS USED.
 HORIZONTAL FORCE (E_h) = $144 W_p$ ($S_{DS} = 2.00$, $a_p = 10$, $I_p = 15$, $R_p = 25$, $z/h \leq 10$)
 VERTICAL FORCE (E_v) = $0.40 W_p$
- CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS CALCULATION ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.
- STRUCTURAL ENGINEER OF RECORD SHALL DESIGN THE STRUT(S) AND ITS ATTACHMENTS TO RESIST A LOAD NOT LESS THAN V_{strut} IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT, WHERE $V_{strut} = 0.6V_u \times$ (NO. OF ANCHORS ENGAGED BY STRUT) (MIN)
- AT CONDITIONS WHERE NUT CANNOT BE PROVIDED AT TOP SIDE OF STRUT, PROVIDE TAPPED HOLE THROUGH STRUT FLANGE.



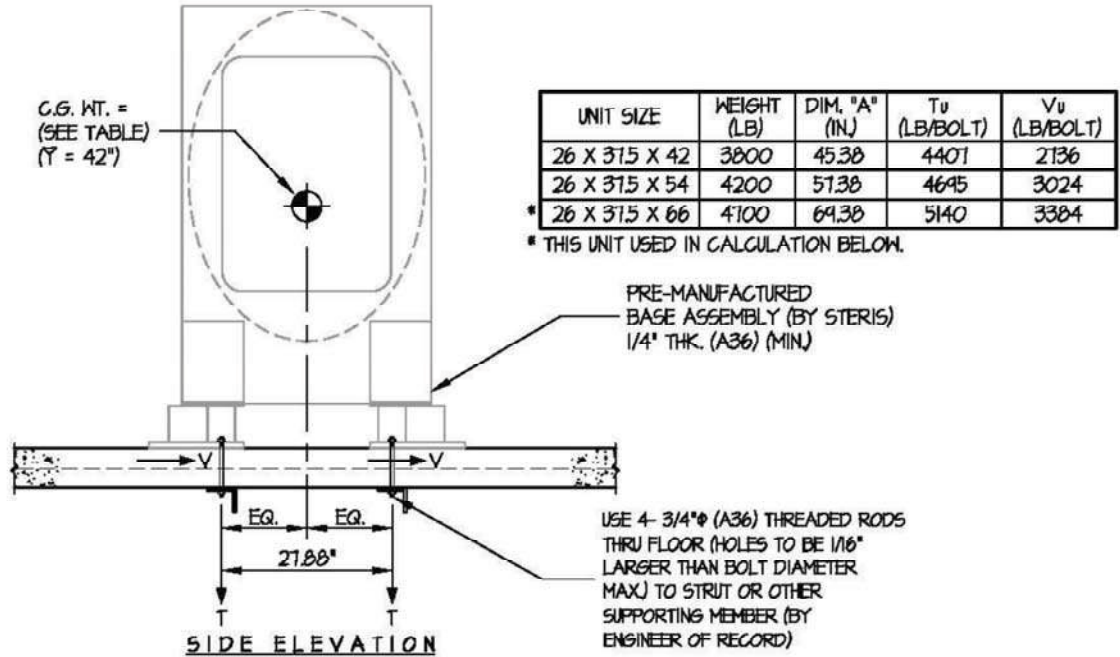
APPROVED Fixed Equipment Anchorage Office of Statewide Health Planning and Development	
	
OPA-2092-10 Pre-approval Program Manager: Anthony R. Pike (916) 440-9470	
P E N D I N G	
Reviewed By: Anthony R. Pike	11/30/11

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STERIS CORPORATION	DES. J. ROBERSON	SHEET 6
AMSCO EVOLUTION 26x37.5 STEAM STERILIZER	JOB NO. 14-1121	OF 6 SHEETS
	DATE 11/30/11	

SEISMIC ANCHORAGE

CONCRETE SLAB ON METAL DECK



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	OPA-2092-10
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P E N D I N G	
Reviewed By: Anthony R. Pike	11/30/11

Rev. No. Rev. Date Drawing No. Desc.



Cut Sheet Summary

GBA Id **503**

Item **Cart, Transfer, Universal**

Manufacturer **Steris**

Model **FD61-700**



Image shown may vary in color or finish from actual item to be purchased.

Physical	Electrical	Plumbing/Mechanical	Responsibilities
Height ("): 37.00	<input type="checkbox"/> Multiple Elec Reqs	<input type="checkbox"/> Medical Gas	Furnished by: Owner
Width ("): 31.00	Voltage:	<input type="checkbox"/> Compressed Air	New Install: Owner
Depth ("): 38.00	Hertz:	<input type="checkbox"/> External Exhaust	Existing Install: N/A
Weight (lb): 145	Phase:	<input type="checkbox"/> Ventilation	Deinstall/ N/A
Operating Wt (lb):	Amps:	<input type="checkbox"/> Building Steam	Move:
	Watts:	<input type="checkbox"/> Integral Steam Generator	<input type="checkbox"/> Contractor Rough-In
	Volt Amps:	<input type="checkbox"/> Cold Water	
Installation / Placement	Breaker Size:	<input type="checkbox"/> Hot Water	Notes
Placement:	Breaker Size:	<input type="checkbox"/> Treated Water	<input type="checkbox"/> Critical Path Item
Mobile	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Drain	<input type="checkbox"/> Refer to Vendor Dwg
<input type="checkbox"/> Component System	<input type="checkbox"/> Emergency	BTUs/Hr:	<input checked="" type="checkbox"/> See Mfgr Cut Sheets
Seismic Anchorage	<input type="checkbox"/> Hard-wired <input type="checkbox"/> Power Cord		<input checked="" type="checkbox"/> Dimensions may be rounded; see vendor sheets
Type: Portable	NEMA:		N/A Responsibilities = No Qty (New /Existing)
Pre-apprvl #:	Network Connection:		
	<input type="checkbox"/> Cable TV		
	<input type="checkbox"/> Analog Phone Line		
	<input type="checkbox"/> Remote Alarm		

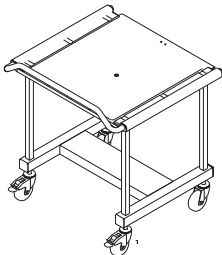
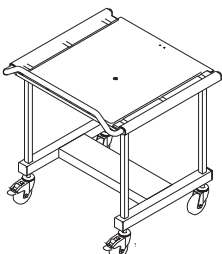
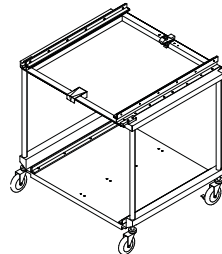
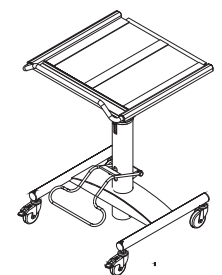
Comments:

The information provided on this summary sheet is based on the data contained on the manufacturer cut sheet(s) that follow. It is the responsibility of the recipient to review the manufacturer's cut sheets for complete information. All specifications included in this document are subject to change without notice by the manufacturer.

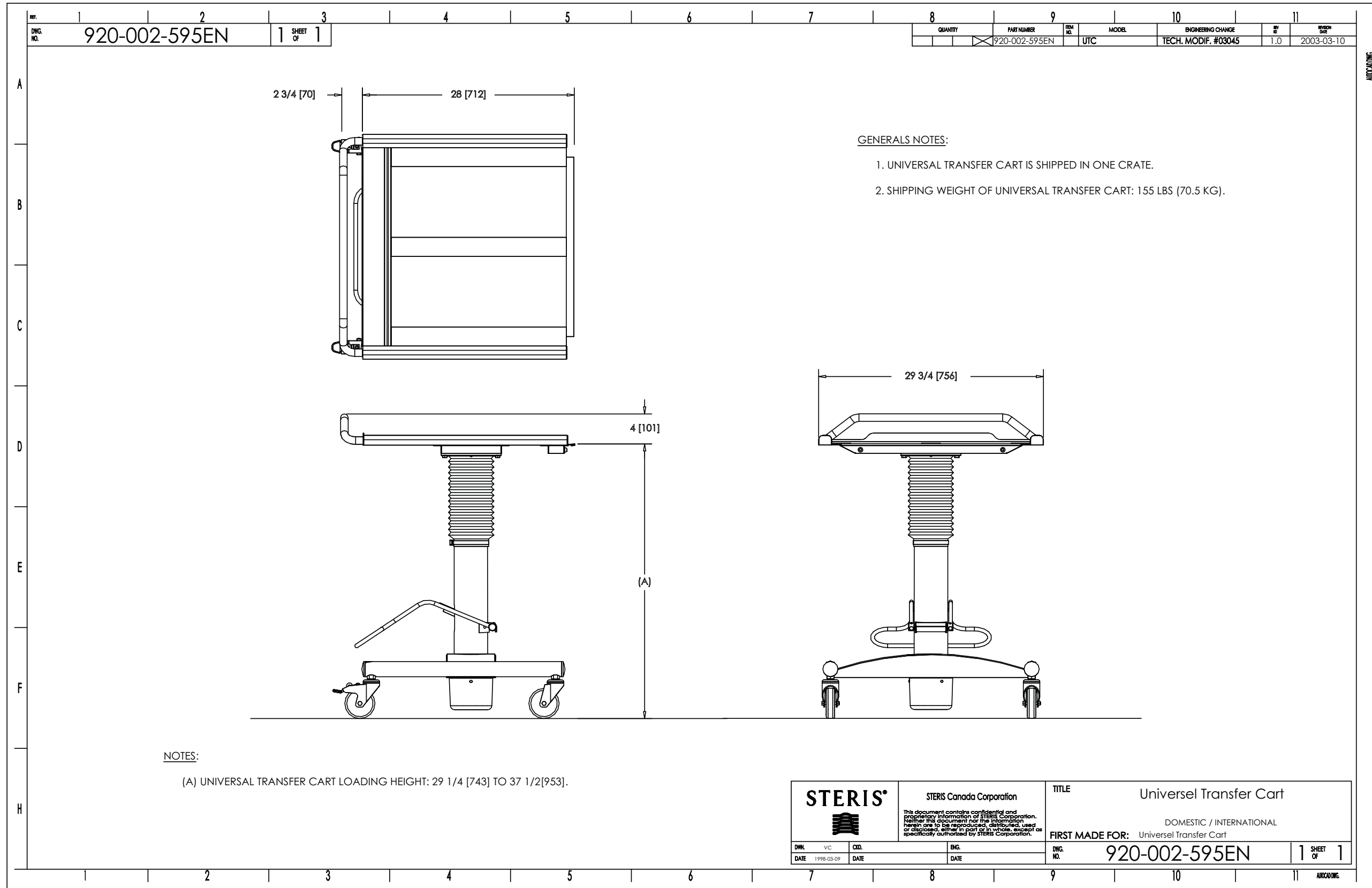


TRANSFER CARTS

Stainless-steel carts are designed for transporting loaded accessories to and from the washer/disinfectors, as well as loading and unloading accessories. Carts can also be used to store trays and racks.

ACCESSORY	OVERALL DIMENSIONS W x L x H inches (mm)	WEIGHT lbs (kg)	LOAD CAPACITY	APPLICATION
<p>Transfer Cart, TC-777 – for Reliance 777 Washer/Disinfector (FD60-200)</p> 	<p>29-7/8 x 28-3/4 x 40-1/4 (759 x 730 x 1022)</p>	<p>44 (20)</p>	<p>One 24 x 24 (610 x 610) accessory</p>	<p>For transferring accessories into and out of the Reliance 777 Washer/Disinfector.</p>
<p>Transfer Cart, TC-444 – for Reliance 444 Washer/Disinfector (FD21-800)</p> 	<p>29-7/8 x 28-3/4 x 40-1/4 (759 x 730 x 1022)</p>	<p>44 (20)</p>	<p>One 24 x 24 (610 x 610) accessory</p>	<p>For transferring accessories into and out of the Reliance 444 Washer/Disinfectors. If STERIS service is required, use SE10-405-20 for service assembly.</p>
<p>Transfer Cart, TC-444 – for Reliance 444 Washer/Disinfector (FD24-300)</p> 	<p>MADE TO ORDER 28-1/2 x 27 x 30-1/4 (759 x 730 x 873)</p>	<p>50 (23)</p>	<p>Two racks or one rack and one accessory header</p>	<p>For transferring accessories into and out of the Reliance 444 Washer/Disinfector. Includes one storage shelf.</p>
<p>Universal Transfer Cart, for Reliance 444, and Reliance 777 Washer/Disinfectors (FD61-700)</p> 	<p>29-3/4 x 29-1/4 to 37-1/2 x 30-3/4 (756 x 743 to 953 x 782)</p>	<p>145 (65)</p>	<p>One 24 x 24 (610 x 610) accessory</p>	<p>Height-adjustable transfer cart for transferring accessories into and out of the Reliance 444 and Reliance 777 Washer/Disinfectors.</p>







Cut Sheet Summary

GBA Id **19816**

Item **Sonic Cleaner, Countertop**

Manufacturer **Steris**

Model **RELIANCE CRT5**



Image shown may vary in color or finish from actual item to be purchased.

Physical	Electrical	Plumbing/Mechanical	Responsibilities
Height ("): 13.00	<input type="checkbox"/> Multiple Elec Reqs	<input type="checkbox"/> Medical Gas	Furnished by: Owner
Width ("): 13.00	Voltage: 120	<input type="checkbox"/> Compressed Air	New Install: Owner Logistics Vendor
Depth ("): 21.00	Hertz: 60	<input type="checkbox"/> External Exhaust	Existing Install: N/A
Weight (lb): 36	Phase: 1	<input type="checkbox"/> Ventilation	Deinstall/ Move: N/A
Operating Wt (lb):	Amps: 12	<input type="checkbox"/> Building Steam	<input type="checkbox"/> Contractor Rough-In
	Watts:	<input type="checkbox"/> Integral Steam Generator	
	Volt Amps:	<input type="checkbox"/> Cold Water	
	Breaker Size:	<input type="checkbox"/> Hot Water	
	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Treated Water	
	<input type="checkbox"/> Emergency	<input type="checkbox"/> Drain	
	<input type="checkbox"/> Hard-wired <input checked="" type="checkbox"/> Power Cord	BTUs/Hr:	
	NEMA:		
	Network Connection:		
	<input type="checkbox"/> Cable TV		
	<input type="checkbox"/> Analog Phone Line		
	<input type="checkbox"/> Remote Alarm		
Installation / Placement			Notes
Placement: Countertop			<input type="checkbox"/> Critical Path Item
<input type="checkbox"/> Component System			<input type="checkbox"/> Refer to Vendor Dwg
Seismic Anchorage			<input checked="" type="checkbox"/> See Mfgr Cut Sheets
Type: Countertop			<input checked="" type="checkbox"/> Dimensions may be rounded; see vendor sheets
Pre-apprvl #:			N/A Responsibilities = No Qty (New /Existing)

Comments:

The information provided on this summary sheet is based on the data contained on the manufacturer cut sheet(s) that follow. It is the responsibility of the recipient to review the manufacturer's cut sheets for complete information. All specifications included in this document are subject to change without notice by the manufacturer.



RELIANCE® ULTRASONIC CLEANING SYSTEM TABLETOP SONIC CLEANER

APPLICATION

The Reliance Tabletop Sonic Cleaner is a compact ultrasonic cleaner is designed to thoroughly wash (remove tissue, blood and other contaminants) surgical instruments by utilizing sonic cavitation passed through a detergent laden wash solution prior to final disinfection or sterilization. The Reliance Ultrasonic System's compact design makes it suitable for use in Surgery Centers, Outpatient Centers, Sterile Processing Departments, Dental Offices or other low volume area to process surgical instruments prior to disinfection or sterilization.

DESCRIPTION

The Reliance Ultrasonic Cleaning System Tabletop Sonic Cleaner is a freestanding instrument washer housed in a compact stainless-steel enclosure. The Tabletop Sonic Cleaner contains ceramically enhanced transducers to create the cavitation at 132 kHz (superior to the standard 40kHz). Sweeping the ultrasonics creates overlapping ultrasonic waves eliminating inconsistent cleaning. Ultrasonic cleaning is an effective and efficient method for cleaning a wide array of surgical instruments.

STANDARDS

The Reliance Ultrasonic Cleaning System Tabletop Sonic Cleaner meets the applicable requirements of the following standards:

- **EMC Directive** 89/336/EEC, 92/31/EEC, 93/68/EEC.
- **Low Voltage Directive** 73/23/EEC, 93/68/EE.
- **ETL** Listed.
- **Underwriters Laboratories (UL) Standard** 61010-1.
- **Underwriters Laboratories (UL) Standard** 61010A-2-010.
- **Canadian Standards Association (CSA) Standard** C22.2 No. 61010-1.



(Typical only - some details may vary.)

- **Canadian Standards Association (CSA) Standard** C22.2 No. 61010-2-010.

FEATURES

The Reliance Ultrasonic Cleaning System Tabletop Sonic Cleaner is wired for operation on either 117 V (60 Hz) or 220 V (50 Hz) voltage. STERIS supplies all components necessary to obtain a complete working unit ready for (but not including) installation and connection to facility service lines. The Tabletop Sonic Cleaner includes the following features:

Optimum Ultrasonic Cleaning Power is ensured by constant power output generators operating at 132 kHz and complemented with complex resonance frequencies to ensure lock-box cleaning efficiency. Patented ceramically-enhanced transducers are bonded to the wash tank providing efficient energy transmission for instrument cleaning.

Stainless-Steel Enclosure resists chemical damage and prevents cracking from dropped instruments.

Stainless-Steel Lid improves safety by containing aerosols and increases efficiency by aiding the thermostat to maintain the solution temperature.

Drain Hose Attachment enables easy wash tank solution drainage.

Illuminated Digital Main Controls include power ON/OFF, adjustable wash cycle timer, heat control and degas cycle. Digital

The Selections Checked Below Apply To This Equipment

VOLTAGES

- 117 V, 60 Hz (Standard)
 220 V, 50 Hz

TANK SIZES

- 3-1/4 gal (12 L) Tank
 5-3/4 gal (22 L) Tank

ACCESSORIES

- Additional Mesh Basket:
 For 3-1/4 gal (12 L)
 For 5-3/4 gal (22 L)
 Additional Lube Pan:
 For 3-1/4 gal (12 L)
 For 5-3/4 gal (22 L)
 Additional Lube Pan Lid:
 For 3-1/4 gal (12 L)
 For 5-3/4 gal (22 L)

Lube Packages:

- For 3-1/4 gal (12 L)
 For 5-3/4 gal (22 L)
 For 5-3/4 gal (22 L) Half

Item _____

Location(s) _____

SD897 (10/01/08)

controller enables precise control of cycle time (0-99 minutes), heat levels (ambient to 80°C [176°F]), power and degas cycle.

Large Capacity Wash Tank supports either a mesh basket and/or a lube pan. One mesh basket is included with each unit.

NOTES

1. STERIS recommends that a dedicated, grounded electrical circuit be provided for each unit. Extension cord and plug use is not recommended.
2. Approximate net weight:
 - » Model CRT3: 19 lb (9 kg).
 - » Model CRT5: 36 lb (16 kg).
3. Dimensions (L x W x H):
 - » Model CRT3: 12.75 x 10.5 x 13" (324 x 267 x 330 mm).
 - » Model CRT5: 20.4 x 12.2 x 13" (518 x 310 x 330 mm).
4. Tabletop Sonic Cleaner must be mounted on a hard, level surface.

5. STERIS recommends using Prolystica™ Ultra Concentrate Enzymatic Cleaner.
6. Reliance Tabletop Sonic Cleaner is manufactured for STERIS by Crest Ultrasonics.
7. For repairs or maintenance, please contact Crest Ultrasonics.

The base language of this document is ENGLISH. Any translations must be made from the base language document.

CUSTOMER IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE LOCAL AND NATIONAL CODES AND REGULATIONS.

TECHNICAL DATA

MODEL	POWER REQUIREMENTS (Amps)		SONIC POWER (Watts)	SHIP WEIGHT lb (kg)	TANK FLUID CAPACITY gal (L)	UNIT INTERIOR SIZE L x W x D
	117 V	220 V				
CRT3	8	4	200	26 (12)	3-1/4 (12)	11-3/4 x 9-1/2 x 8" (298 x 241 x 208 mm)
CRT5	12	6	300	44 (20)	5-3/4 (22)	19-1/2 x 11-1/2 x 6" (495 x 293 x 152 mm)

For Further Information, contact:



STERIS Corporation
 5960 Heisley Road
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Item# _____

Job _____



Utility Carts Series: MW100, MW500, and MW600

12.01



MW600 Series



MW100 Series



MW500 Series

SUPER ERECTA SHELF® MW UTILITY CARTS — TWO-SHELF MODELS

- **Attractive** and thoroughly practical, these carts are offered as complete units, shipped knocked down, with all components packaged in a compact carton.
- **Super Erecta Shelf® Construction** makes units easy to assemble with absolute rigidity, and makes relocation of shelves quick and simple.
- **Choice of 21 Two-Shelf Models:** Three different shelf combinations, each in five to ten different models.
MW100 Series — Two stainless steel flat shelves. Six sizes. Stainless steel handles except in smallest size.
MW500 Series — One chrome wire shelf and one stainless steel flat shelf. Five sizes; chrome handles. Either shelf can be placed top or bottom.
MW600 Series — Two wire shelves, chrome or stainless steel. Five sizes; ten models. Handle material matches shelves.
- **Wire Shelves:** Bright, modern, sanitary appearance. Open construction minimizes dust accumulation, maximizes visibility and air circulation.
- **Solid Shelves:** Ideal for transporting materials that require an expanse of flat surface. Raised ship's edge permits fast clean-up in case of liquid spills. Double thickness of 18-gauge steel at edges also gives rigidity and high strength.
- **Casters:** Standard-duty. 4LD 4" (102mm) diameter casters on carts 15 1/2" (393mm) and 18" (455mm) wide; 5LD 5" (127mm) diameter casters on carts 21" (530mm) and 24" (610mm) wide. See sheet #11.20 for additional information on casters.
- **Donut Bumpers**
- **One-Piece Handle**
- **Height:** 38" (965mm) floor to handle with 4" (102mm) casters; 39" (990mm) floor to handle with 5" (127mm) casters.
- **Replaceable Parts:** If any part of any cart is damaged by use, replacement parts are readily available and easily installed.
- **Accessories:** A wide variety is available to increase usefulness. See sheet #12.20.



InterMetro Industries Corporation
North Washington Street
Wilkes-Barre, PA 18705
www.metro.com

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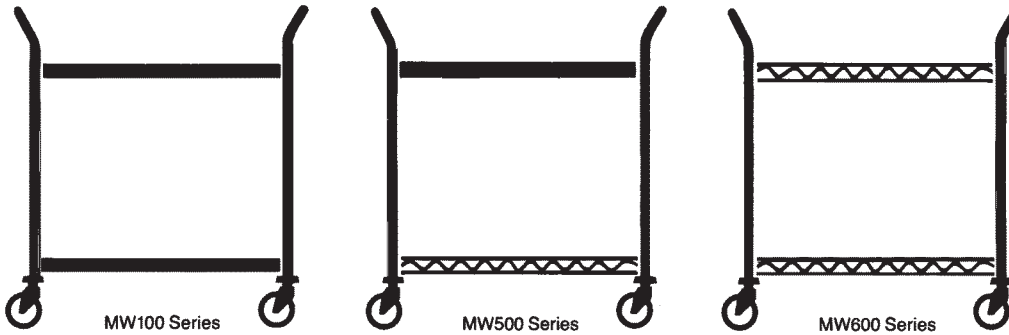


Job _____

SUPER ERECTA SHELF®
 MW UTILITY CARTS — TWO-SHELF
 MODELS



MW Carts (Two Shelf Models)



DIMENSIONS

Model	Width		Length		Approx. Pkd. Wt.		Shelves	Shelf Mat.	Handles	Casters	
	(in.)	(mm)	(in.)	(mm)	(lbs.)	(kg)				(in.)	(mm)
MW103	18	455	24	610	40	18.1	2-S	SS	SS	4	102
MW104	18	455	30	760	45	20.4	2-S	SS	SS	4	102
MW105	18	455	36	910	48	21.8	2-S	SS	SS	4	102
MW106	21	530	36	910	54	24.5	2-S	SS	SS	5	127
MW108	24	610	36	910	60	27.2	2-S	SS	SS	5	127
MW501	18	455	24	610	38	17.2	1-S 1-W	SS Chrome	Chrome	4	102
MW502	18	455	30	760	40	18.1	1-S 1-W	SS Chrome	Chrome	4	102
MW503	18	455	36	910	46	20.9	1-S 1-W	SS Chrome	Chrome	4	102
MW504	21	530	36	910	51	23.1	1-S 1-W	SS Chrome	Chrome	5	127
MW506	24	610	36	910	55	24.9	1-S 1-W	SS Chrome	Chrome	5	127
MW601	18	455	24	610	34	15.4	2-W	Chrome	Chrome	4	102
MW602	18	455	24	610	34	15.4	2-W	SS	SS	4	102
MW603	18	455	30	760	37	16.8	2-W	Chrome	Chrome	4	102
MW604	18	455	30	760	37	16.8	2-W	SS	SS	4	102
MW605	18	455	36	910	40	18.1	2-W	Chrome	Chrome	4	102
MW606	18	455	36	910	39	17.7	2-W	SS	SS	4	102
MW607	21	530	36	910	44	20.0	2-W	Chrome	Chrome	5	127
MW608	21	530	36	910	44	20.0	2-W	SS	SS	5	127
MW611	24	610	36	910	47	21.3	2-W	Chrome	Chrome	5	127
MW612	24	610	36	910	46	20.9	2-W	SS	SS	5	127

S - Solid Shelving W - Wire Shelving SS - Stainless Steel

Manufactured by:
InterMetro Industries Corp.
 North Washington Street
 Wilkes-Barre, PA 18705

For Product Information, call 1-800-433-2232



InterMetro Industries Corporation
 North Washington Street
 Wilkes-Barre, PA 18705
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Cut Sheet Summary

GBA Id **26735-1**

Item **Urodynamic Diagnostic System, Non-Fluoro Type**

Manufacturer **Laborie Medical Technologies**

Model **AQUARIUS CT**



Image shown may vary in color or finish from actual item to be purchased.

Physical	Electrical	Plumbing/Mechanical	Responsibilities
Height ("): 46.00	<input type="checkbox"/> Multiple Elec Reqs	<input type="checkbox"/> Medical Gas	Furnished by: Owner
Width ("): 22.00	Voltage: 120	<input type="checkbox"/> Compressed Air	New Install: Owner
Depth ("): 22.00	Hertz: 60	<input type="checkbox"/> External Exhaust	Existing Install: N/A
Weight (lb): 40	Phase: 1	<input type="checkbox"/> Ventilation	Deinstall/ N/A
Operating Wt (lb):	Amps:	<input type="checkbox"/> Building Steam	Move: N/A
	Watts:	<input type="checkbox"/> Integral Steam Generator	<input type="checkbox"/> Contractor Rough-In
	Volt Amps:	<input type="checkbox"/> Cold Water	
	Breaker Size:	<input type="checkbox"/> Hot Water	
	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Treated Water	
	<input type="checkbox"/> Emergency	<input type="checkbox"/> Drain	
	<input type="checkbox"/> Hard-wired <input checked="" type="checkbox"/> Power Cord	BTUs/Hr:	
	NEMA:		
	Network Connection: Wired		
	<input type="checkbox"/> Cable TV		
	<input type="checkbox"/> Analog Phone Line		
	<input type="checkbox"/> Remote Alarm		
Installation / Placement			Notes
Placement: Freestanding			<input type="checkbox"/> Critical Path Item
<input checked="" type="checkbox"/> Component System			<input type="checkbox"/> Refer to Vendor Dwg
Seismic Anchorage			<input checked="" type="checkbox"/> See Mfgr Cut Sheets
Type: Portable			<input checked="" type="checkbox"/> Dimensions may be rounded; see vendor sheets
Pre-apprvl #:			N/A Responsibilities = No Qty (New /Existing)

Comments:

The information provided on this summary sheet is based on the data contained on the manufacturer cut sheet(s) that follow. It is the responsibility of the recipient to review the manufacturer's cut sheets for complete information. All specifications included in this document are subject to change without notice by the manufacturer.





Cut Sheet Summary

GBA Id **30601**

Item **Air Gun with Wall-Mounting Bracket**

Manufacturer **Steris**

Model **Air Gun with Wall-Mounting Bracket**



Image shown may vary in color or finish from actual item to be purchased.

Physical	Electrical	Plumbing/Mechanical	Responsibilities
Height ("): Width ("): Depth ("): Weight (lb): Operating Wt (lb):	<input type="checkbox"/> Multiple Elec Reqs Voltage: Hertz: Phase: Amps: Watts: Volt Amps: Breaker Size: <input type="checkbox"/> Dedicated <input type="checkbox"/> Emergency <input type="checkbox"/> Hard-wired <input type="checkbox"/> Power Cord NEMA: Network Connection: <input type="checkbox"/> Cable TV <input type="checkbox"/> Analog Phone Line <input type="checkbox"/> Remote Alarm	<input type="checkbox"/> Medical Gas <input type="checkbox"/> Compressed Air <input type="checkbox"/> External Exhaust <input type="checkbox"/> Ventilation <input type="checkbox"/> Building Steam <input type="checkbox"/> Integral Steam Generator <input type="checkbox"/> Cold Water <input type="checkbox"/> Hot Water <input type="checkbox"/> Treated Water <input type="checkbox"/> Drain BTUs/Hr:	Furnished by: Owner New Install: Contractor Existing Install: N/A Deinstall/Move: N/A <input checked="" type="checkbox"/> Contractor Rough-In
Installation / Placement			Notes
Placement: WallMount <input checked="" type="checkbox"/> Component System			<input type="checkbox"/> Critical Path Item <input type="checkbox"/> Refer to Vendor Dwg <input checked="" type="checkbox"/> See Mfgr Cut Sheets <input checked="" type="checkbox"/> Dimensions may be rounded; see vendor sheets N/A Responsibilities = No Qty (New /Existing)
Seismic Anchorage			
Type: Vendor Installed Connection Pre-apprvl #:			

Comments:

Reference cut sheet for PSI and vacuum rating details.

The information provided on this summary sheet is based on the data contained on the manufacturer cut sheet(s) that follow. It is the responsibility of the recipient to review the manufacturer's cut sheets for complete information. All specifications included in this document are subject to change without notice by the manufacturer.

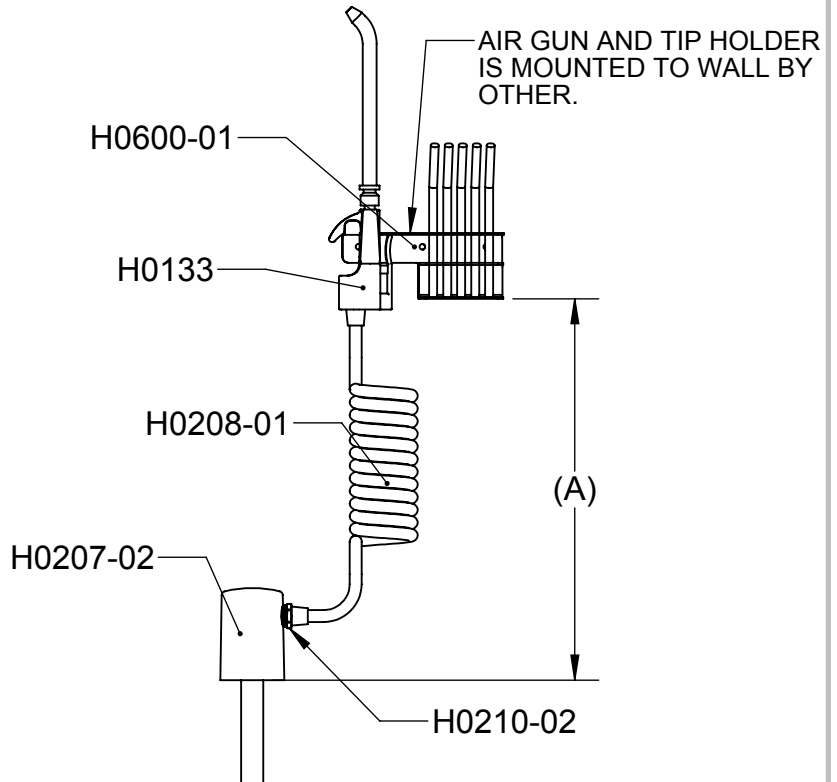
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PRODUCT DESCRIPTION:

AIR GUN ASSEMBLY

AVAILABLE AS AN OPTION ON ALL PROCESSING SINKS

PART NUMBER: MULTIPLE



RECOMMAND AIR GUN PLACEMEN

STANDARD PROCESSING SINK
(A) = 14.75" FROM SINK TOP

ADJUSTABLE HEIGHT PROCESS SINK
(A) = 23.75" FROM SINK TOP AT IT'S
LOWEST SETTING.

ALL DIMENSION ABOVE ARE RECOMMENDED,
CUSTOMER MY MOVE TO IT'S PERFERED
LOCATION.

SPECIFICATION:

1. Quick Tip Blow Gun Complete with five (5) differnt tips that are quickly changed by a quick push and pull. Comes with a popular hooked Blow Gun Body. The rubber Tip and the Needle Tip should be used with 30 PSI.
2. 1/4" I.D. x 10 feet flexcoil retracting air and water hose , brass fittings with NPT threads (1/4" mpt swivel), low temp -40° to +125°F, medium temp -40° to +165°F, high temp -40° to +180°F. Vacum rating is 27"Hg @72°F.
3. Air Inlet deck mount fitting, turret base 3/8" NPT female inlet, single 3/8" NPT female outlet, 3/8" IPS mounting shank with locknut and washer. 3/8" IPS x 2-1/2" OAL. Low-Pressure Brass Threaded Pipe Fitting 3/8 Male X 1/4 Fem Pipe Size, Hex Reducing Bushing
4. 300 series stainless steel air gun wall mounting bracket.

TITLE

AIR GUN WITH ATTACHMENTS

TECHNICAL DOCUMENT

DOC. NUMBER H0133	REVISION A
DRAWN BY L.ADKISSON	DATE 05/23/2012
SCALE VARIES	SHEET 1 OF 1

30601