

Belimed

Infection Control

2325 Charleston Regional Parkway, Charleston, SC 29492
Tel: (800) 457-4117 Web: www.belimed.com

CA9618-HS1RM

RIGHT CHAMBER HORIZONTAL STERILIZER

3D IMAGE

Typical installation of a Belimed
CA9618-HS1RM Horizontal Sterilizer.

Dwg. No. : CUT-CA9618HS1RM

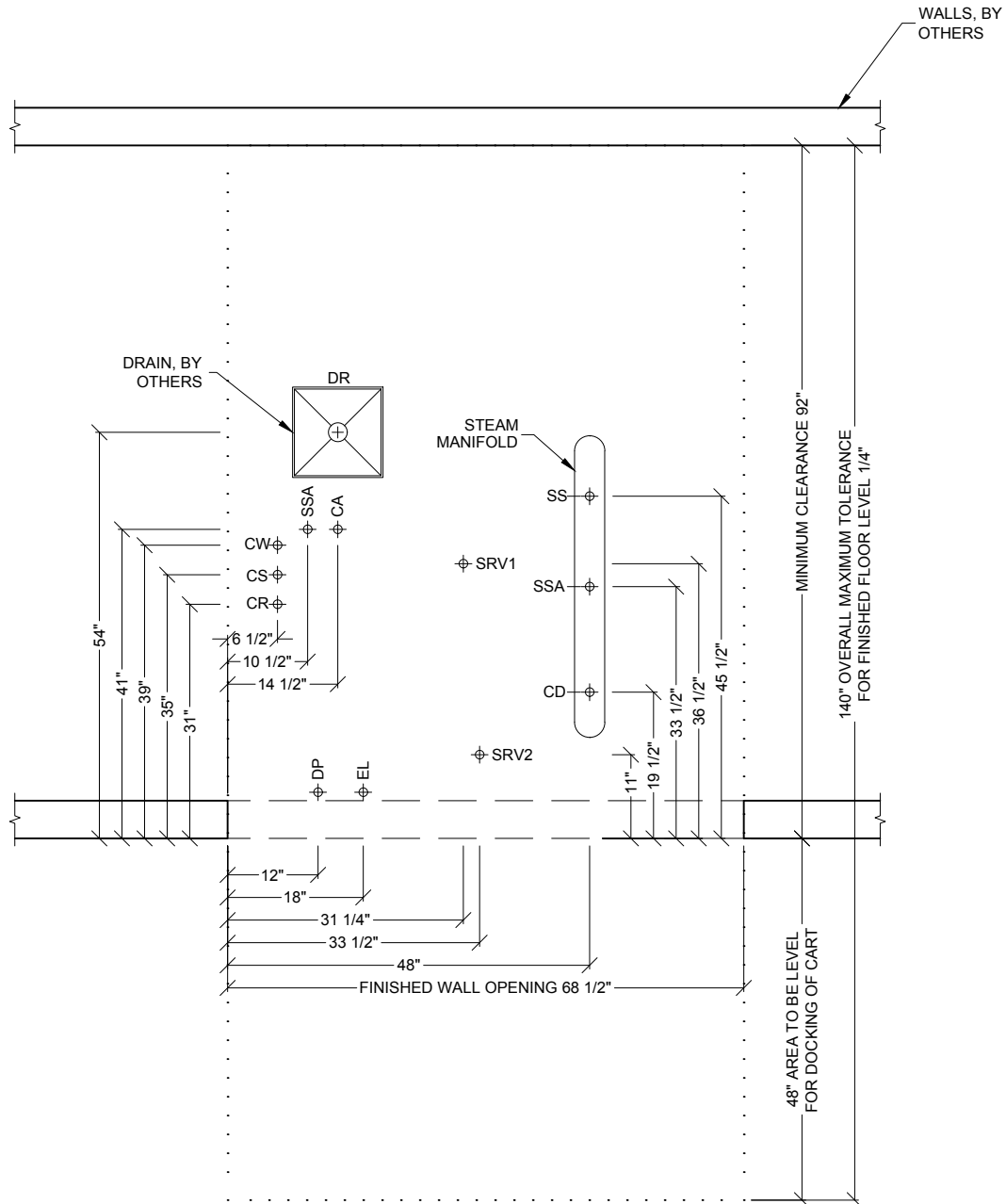
Rev. : B

Drawn By : Z. KELLEY

Date : 7/28/16

Scale : N.T.S.

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CLEAN SIDE

- CA — COMPRESSED AIR
- CD — CONDENSATE
- CR — CHILLED WATER RETURN (OPTIONAL)
- CS — CHILLED WATER SUPPLY (OPTIONAL)
- CW — COLD WATER
- DR — FLOOR DRAIN
- DP — DATA PORT
- EL — ELECTRICITY FOR MACHINE
- SRV — SAFETY PRESSURE RELIEF VALVE
- SS — STEAM SUPPLY
- SSA — STEAM SUPPLY FROM MANIFOLD

CA9618-HS1RM RIGHT CHAMBER HORIZONTAL STERILIZER

PLAN VIEW

Typical site preparation of a Belimed
CA9618-HS1RM Horizontal Sterilizer.

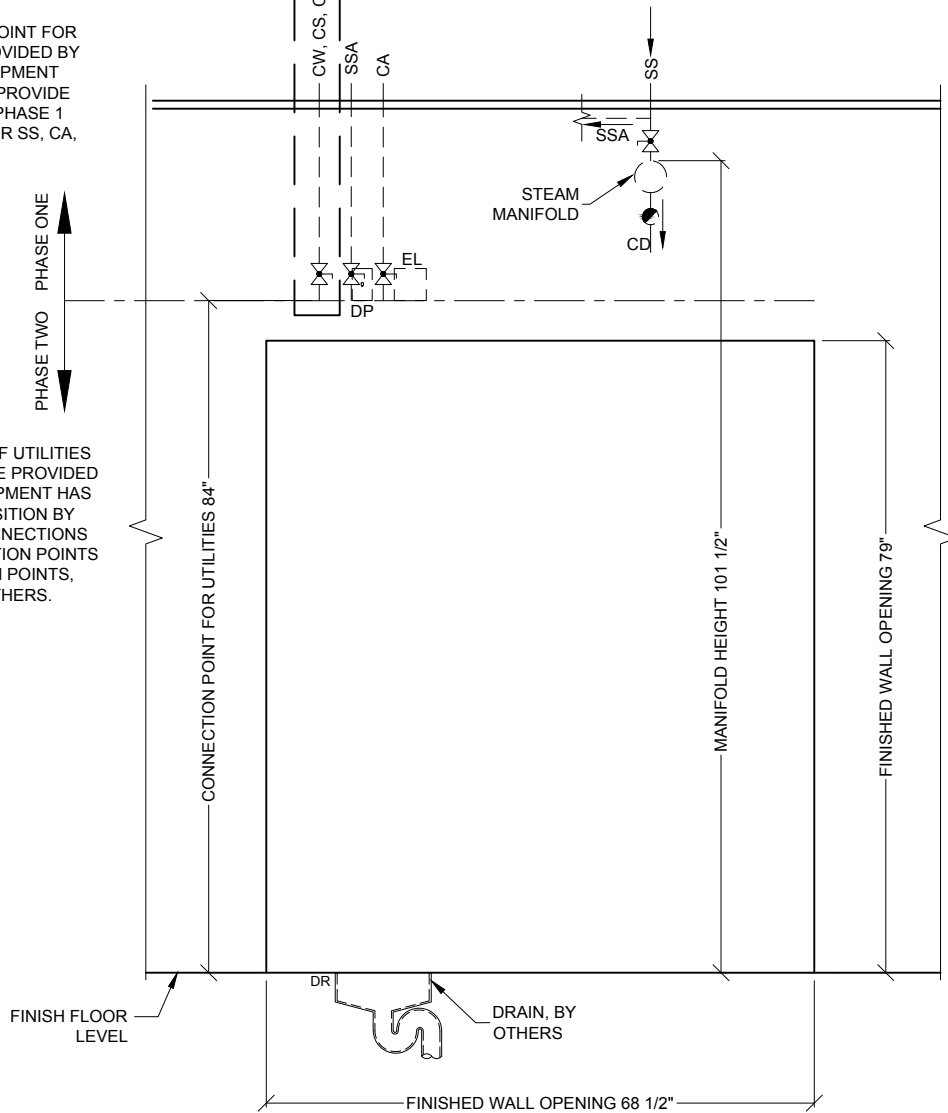
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Drawn By :	Z. KELLEY	Date :	7/28/16
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C
10

PHASE 1 CONNECTION POINT FOR UTILITIES ARE TO BE PROVIDED BY OTHERS **BEFORE** EQUIPMENT INSTALLATION BEGINS. PROVIDE SHUT-OFF VALVES AT PHASE 1 CONNECTION POINTS FOR SS, CA, CW, CS, CR.

PHASE ONE
↑
PHASE TWO
↓

PHASE 2 CONNECTION OF UTILITIES TO EQUIPMENT ARE TO BE PROVIDED BY OTHERS **AFTER** EQUIPMENT HAS BEEN SET IN FINAL POSITION BY BELIMED. ALL FINAL CONNECTIONS (FROM PHASE 1 CONNECTION POINTS TO FINAL CONNECTION POINTS, PHASE 2) ARE BY OTHERS.





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*SEE DETAIL D/10 FOR CHILLED WATER BYPASS.

LEGEND

SYMBOLS

-  — SERVICE SHUT-OFF VALVE, BY OTHERS
-  — STEAM TRAP, BY OTHERS

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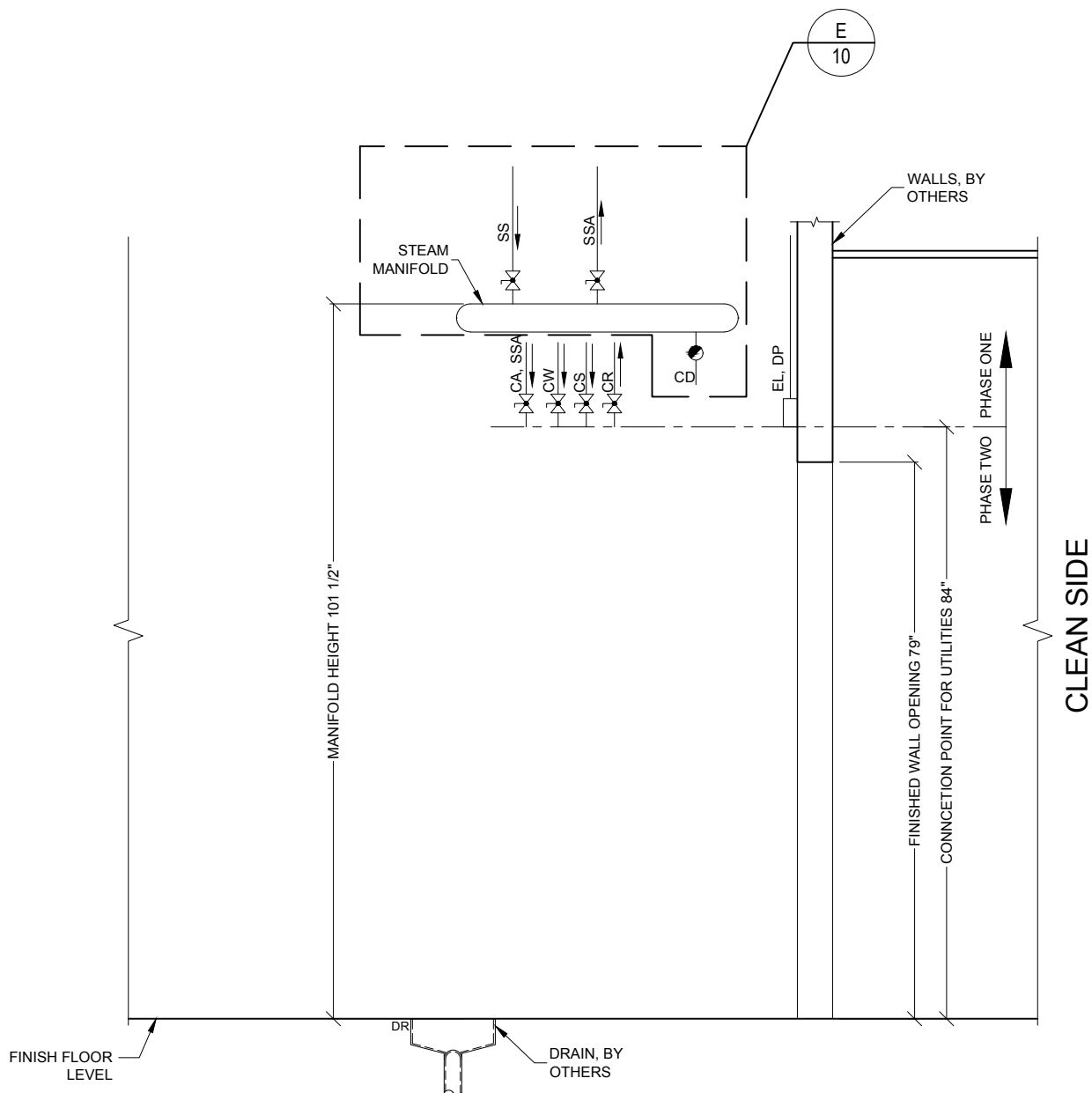
CA9618-HS1RM

RIGHT CHAMBER HORIZONTAL STERILIZER

FRONT ELEVATION

Typical site preparation of a Belimed
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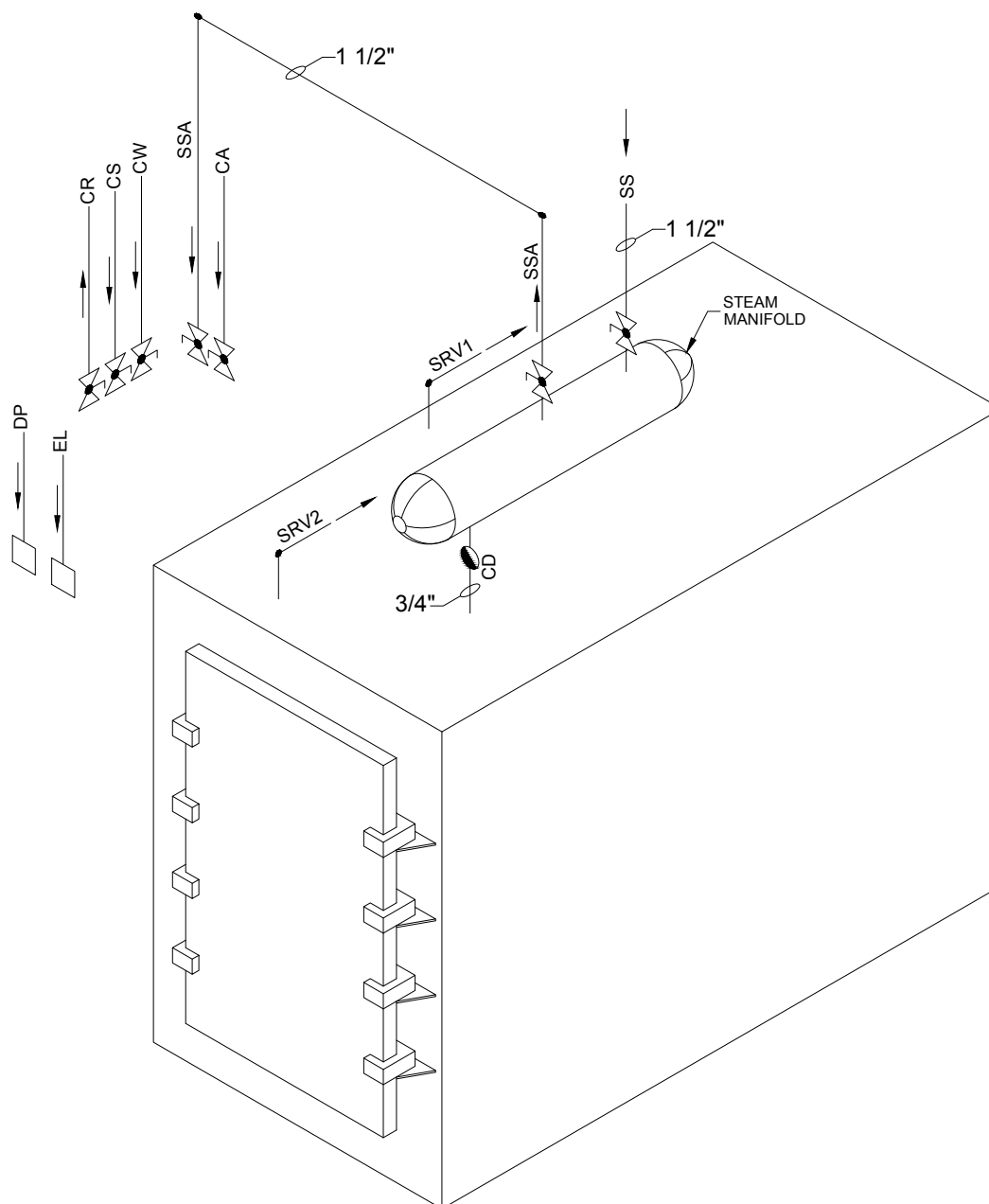
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RIGHT CHAMBER HORIZONTAL STERILIZER

SIDE ELEVATION

Typical site preparation of a Belimed CA9618-HS1RM Horizontal Sterilizer.

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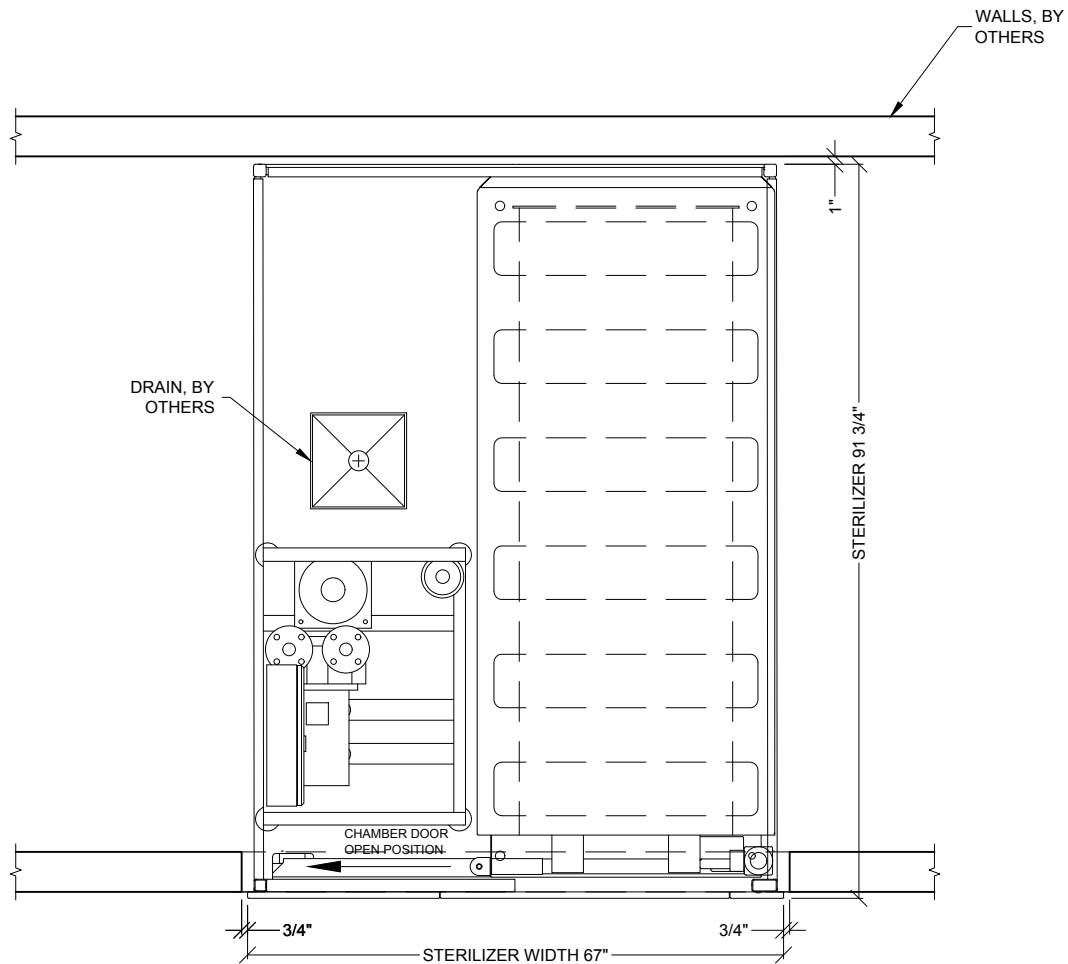
TYPICAL ISOMETRIC VIEW

Typical utility piping diagram of a Belimed CA9618-HS1RM Horizontal Sterilizer.

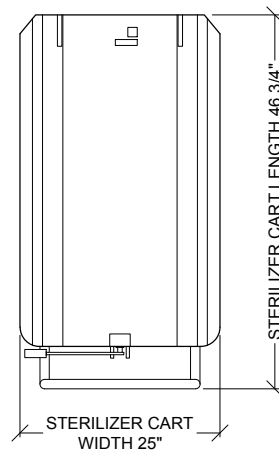
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CLEAN SIDE



STERILIZER TRANSPORT CART AND LOADING
RACKS SOLD SEPARATELY. SEE CART CUT
SHEET FOR ADDITIONAL DIMENSIONS.

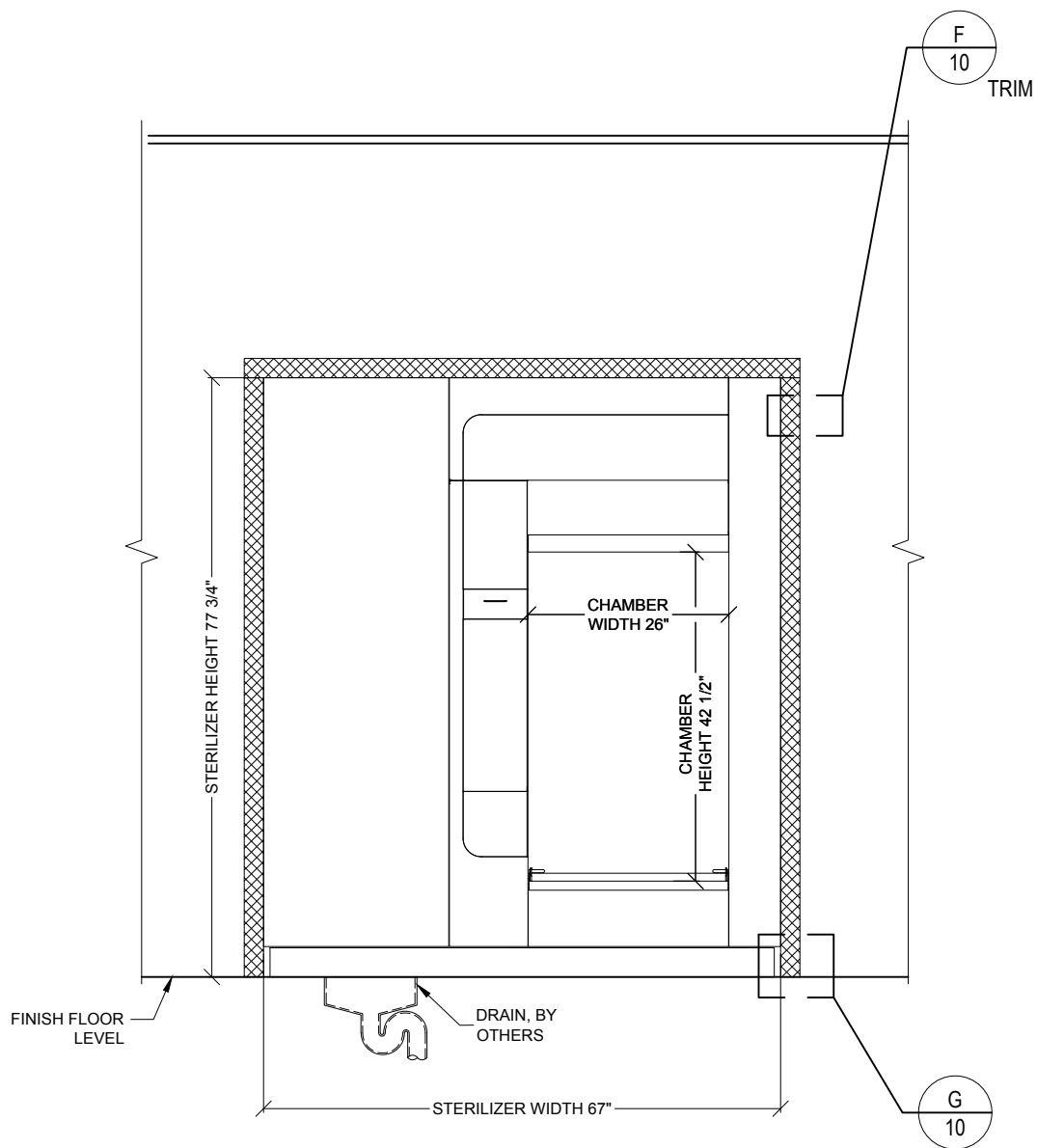
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PLAN VIEW
Typical equipment layout of a Belimed
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LEGEND

HATCH TYPES

 STAINLESS STEEL TRIM, BY BELIMED

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FRONT ELEVATION

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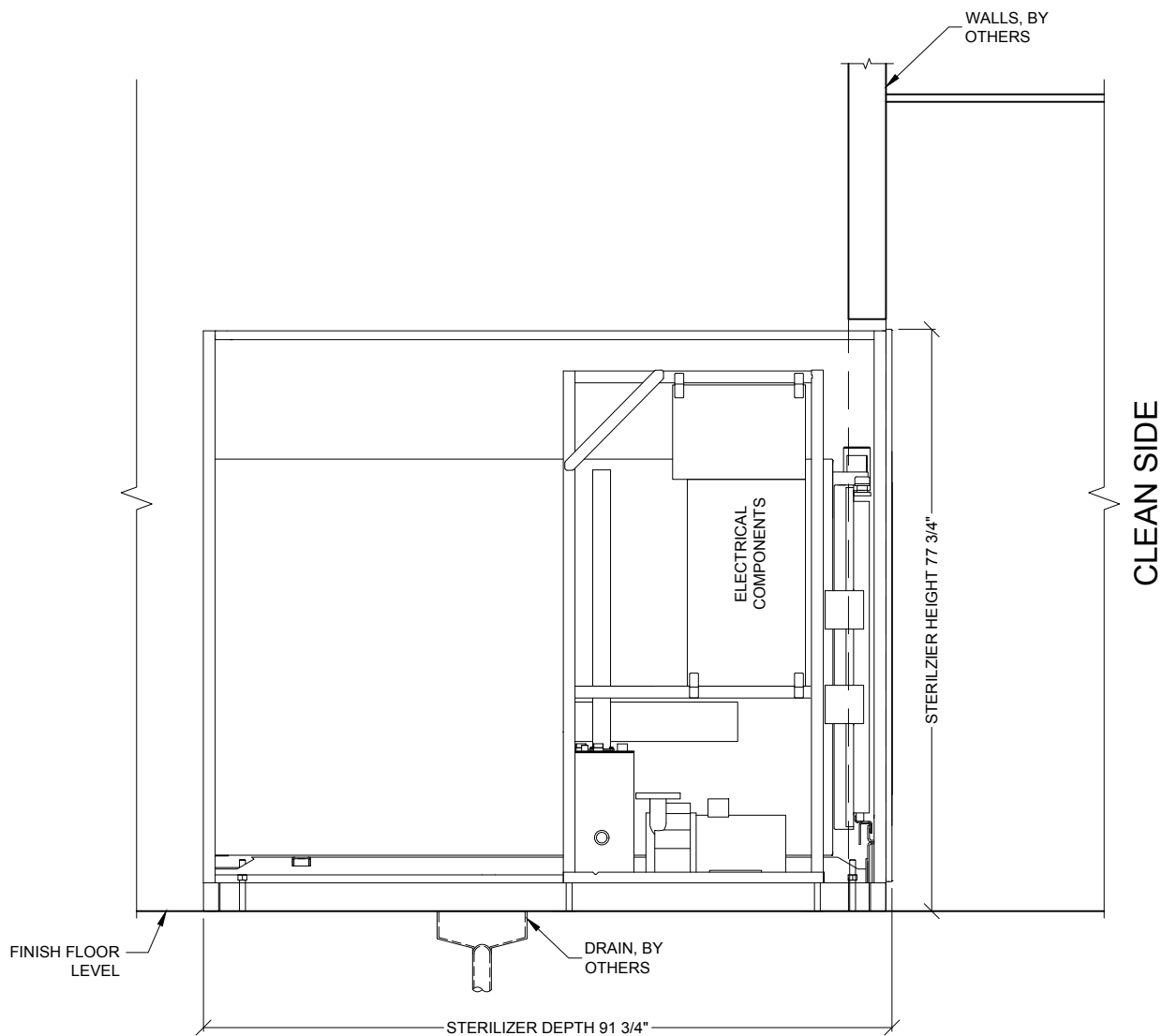
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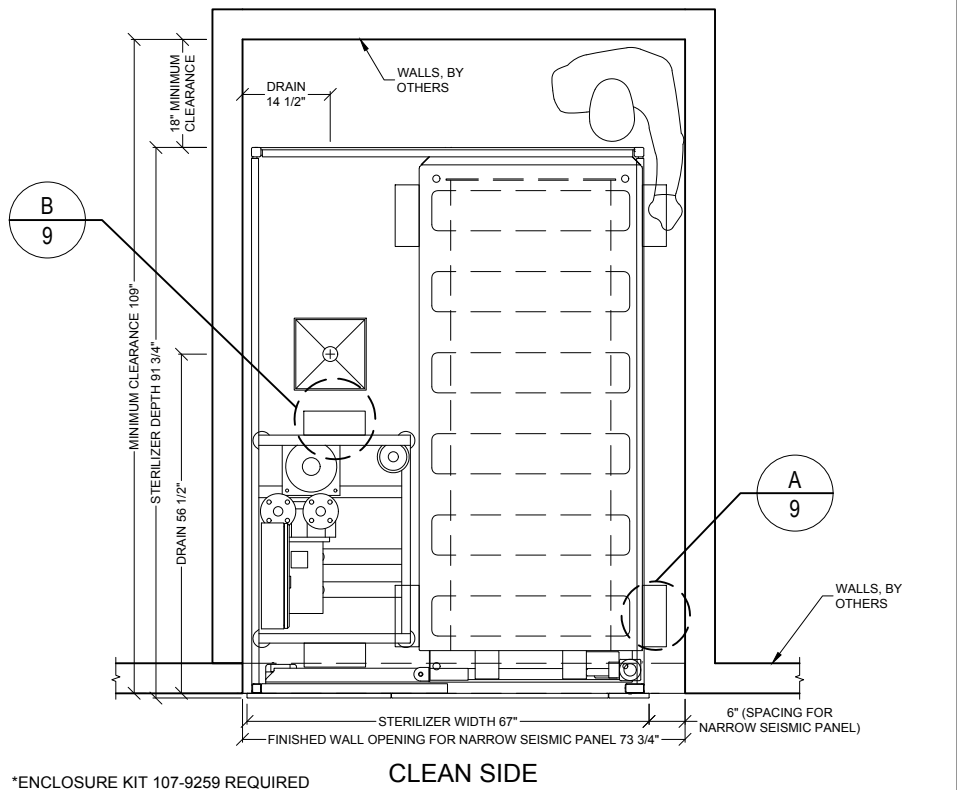


CA9618-HS1RM

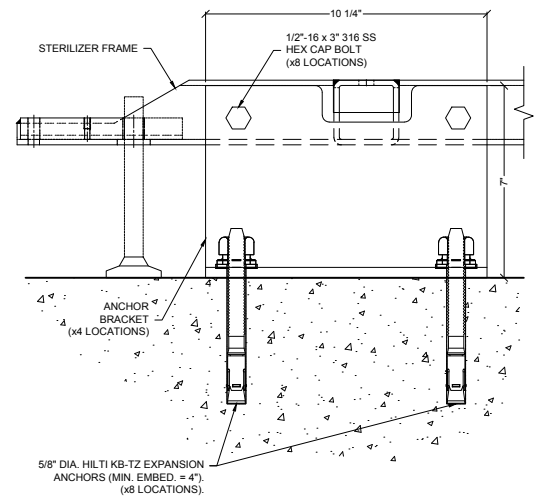
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SIDE ELEVATION
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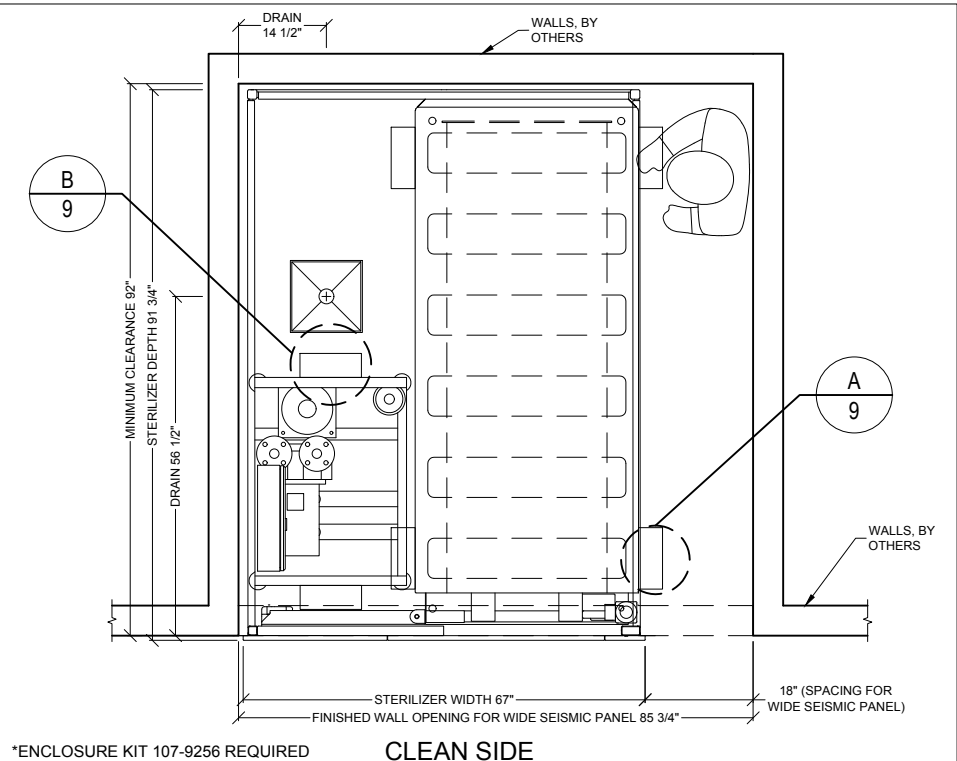


PLAN VIEW
EQUIPMENT LAYOUT REQUIRING NARROW SEISMIC PANEL

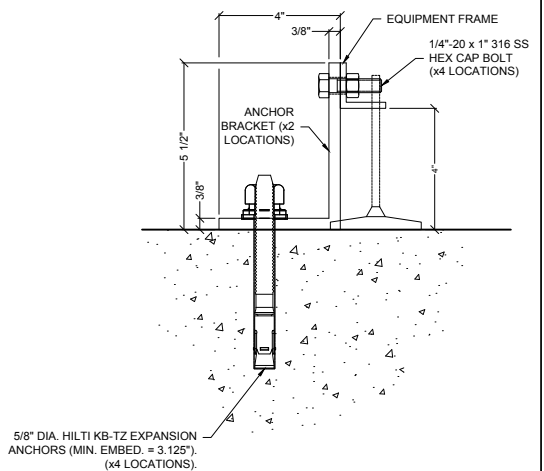


*DETAIL FOR REGIONS REQUIRING SEISMIC ANCHORAGE.

TYP. SEISMIC ANCHORING DETAIL
HORIZONTAL STERILIZER CHAMBER
N.T.S.

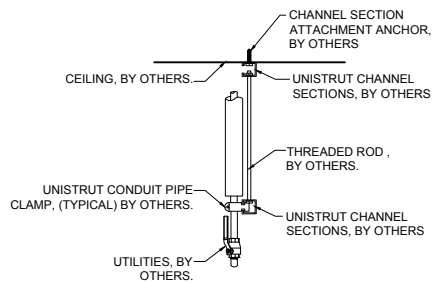


PLAN VIEW
EQUIPMENT LAYOUT REQUIRING WIDE SEISMIC PANEL



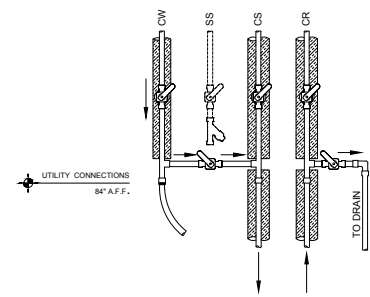
*DETAIL FOR REGIONS REQUIRING SEISMIC ANCHORAGE.

TYP. SEISMIC ANCHORING DETAIL
HORIZONTAL STERILIZER SKID
N.T.S.



NOTE: REFER TO LOCAL BUILDING CODES AND/OR SEISMIC ANCHORAGE REQUIREMENTS FOR FINAL ATTACHMENT METHOD.

1. UTILITY ATTACHMENT ASSEMBLY SHALL FALL WITH IN THE FOOTPRINT OF THE SPECIFIED EQUIPMENT.
2. REFER TO EQUIPMENT PLUMBING, MECHANICAL AND ELECTRICAL PLANS FOR UTILITY LOCATIONS.
3. SEE TECHNICAL SPECIFICATIONS FOR UTILITY SIZING, INPUT REQUIREMENTS, AND FINAL CONNECTIONS.



MANUAL SERVICE VALVES, BY OTHERS.

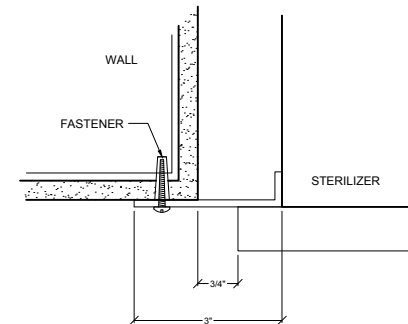
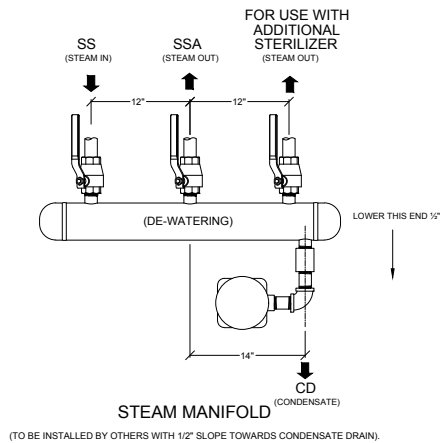
CW - COLD WATER
CS - CHILLED WATER SUPPLY
CR - CHILLED WATER RETURN

C RECOMMENDED TYPICAL CEILING HUNG UTILITY ATTACHMENT DETAIL (SIDE VIEW)

N.T.S.

D TYP. (OPTIONAL) BY PASS DETAIL CHILLED WATER CONNECTION

N.T.S.

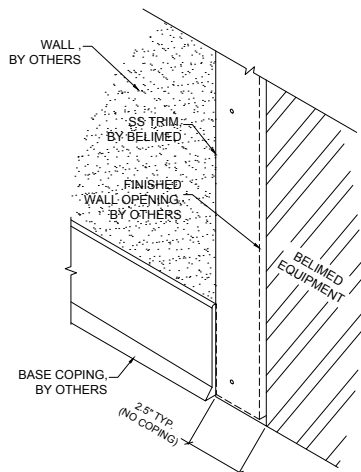


E TYPICAL STEAM MANIFOLD DETAIL

N.T.S.

F TYP. TRIM ATTACHMENT DETAIL HORIZONTAL STERILIZER

N.T.S.



G BASE COPING AT WALL OPENING

N.T.S.

CA9618-HS1 STERILIZER - TECHNICAL SPECIFICATIONS

REQUIRED INPUTS

Symbol	Description	Value	Utility Notes	Connection Method	Final Utility Conn. By:	
					Others	Belimed
SS-X	Utility:	Steam	Steam must be dry, saturated, and free from all impurities such as gases, oil, dirt, or other contaminants. Provide adequate steam strainer typical for sterilizers. All steam drops must be piped from top of steam supply line.	Hard Pipe	X	
	Connection Size/Type:	1 1/2 inch / FNPT				
	Pressure:	Min: 40 Max: 50 psig				
	Peak Consumption:	6.25 lbs/min				
CW-X	*Consumption per Load:	88 lbs	Cold water is used to prime the condensate pump and cool the condensate. Colder water temperatures will result in less water consumption. Optimal temperature is 60°F. Temperature must be less than or equal to 85°F. TDS must be less than or equal to less than 400 ppm. Back flow prevention must be supplied by customer, as per local code.	Flex		X
	Utility:	Cold Water				
	Connection Size/Type:	1 inch / MNPT				
	Pressure:	Min: 30 Max: 70 psig				
CA-X	Peak Consumption:	14.0 gal/min	Air must be dry and oil free. Used to operate pneumatic control system.	Flex		X
	*Consumption per Load:	167 gal				
	Utility:	Compressed Air				
	Connection Size/Type:	1/4 inch / FNPT				
EL-X	Pressure:	Min: 70 Max: 100 psig	Junction Box with Receptacle. NEMA 15-30R to NEC local codes. Grainger part No. 5Z889.	Receptacle		X
	Peak Consumption:	6 CFM				
	*Consumption per Load:	14 ft³				
	Utility:	Electric				
SRV1-X	Connection Type:	Receptacle	Provide sufficient air exhaust to remove 4 kW heat dissipation from service room.		X	
	Voltage (Nominal):	208 VAC				
	Voltage (Phase):	3 Phase				
	Voltage (Frequency):	60 Hz				
SRV2-X	Circuit Protection:	30 Amps	Provide connection to safety relief valve and pipe to drain, atmosphere, or as required by local code.	Hard Pipe with Union	X	
	Peak Consumption:	4.9 kW				
	*Consumption per Load:	4.2 kW-h				
	Utility:	Equipment Area Exhaust				
SSA/SSB	Connection Type:	Exhaust return grille	Provide connection to safety relief valve and pipe to drain, atmosphere, or as required by local code.	Hard Pipe with Union	X	
	Utility (Chamber):	Safety Pressure Relief Valve				
	Outlet size:	1 1/2 inch / MNPT				
	Utility (Jacket):	Safety Pressure Relief Valve				
DP-X	Outlet size:	1 inch / MNPT	Location: Ethernet port should be located within 5 ft of machine within the enclosed service area of the sterilizer.	Hard Pipe with Union	X	
	Utility :	Steam Supply Line				
	Steam Line Size/Type:	1 1/2 inch / MNPT				
	Utility:	Data Port				
DR-X	Connection Method:	TCP/IP Ethernet to hospital network	In accordance with ISO3746: 1995 Testing Standards.		X	
	Connection Quantity:	One (1) RJ45 Ethernet port per sterilizer				
	Facility Wiring:	*Cat-5, Cat-6 or Cat-6e wire				
	NIC/Com Speed:	10/100 Mbps Networking Port (RJ45)				
CD-X	Broadcast Method:	Unicast	* (By others)		X	
	MTU Size:	1500				
	Final Connection:	Belimed provided patch cables for final connection				
	Port IP Setup:	Each RJ45 Ethernet Port with individual static IP address				

ESTIMATED EMISSIONS

DR-X	Utility:	Open Drain	Provide flush mounted floor sink and trap per local code.	2" Copper Pipe	X	
	Connection Size:	2 inch				
	Discharge Flow Rate:	16.4 gal/min				
	*Consumption per Load:	177.6 gal (w/o chilled water)				
CD-X	Medium:	Noise Radiation	Heat dissipated into service room with ambient temperature of 86°F.			
	Radiation (Net):	57 dBA				
	Medium:	Heat Radiation				
	Radiation (Net):	4 kWh				
CD-X	Utility:	Condensate	Condensate removal by customer per local code.	Hard Pipe	X	
	Connection Size/Type:	3/4 inch / FNPT				

CONTINUED ON PAGE 12

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CA9618-HS1RM RIGHT CHAMBER HORIZONTAL STERILIZER

TECHNICAL SPECIFICATIONS

Technical Data for the installation of a Belimed CA9618-HS1RM Horizontal Sterilizer.

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Optional utilities for chilled water cooling (used for reduction of cold water consumption).

CS-X	Utility:	Chilled Water Supply	Feed water at ~50°F. Approximate $\Delta T = 15/25$ K. Cooling Capacity: average/peak	Insulated Hard Pipe	X	
	Connection Size/Type:	1 1/4 inch / MNPT				
	Pressure:	Min: 30 Max: 70 psig				
	Peak Flow Rate:	19.8 gal/min				
	Peak Consumption:	678 kBTU/hr				
	*Consumption per Load:	66 kBTU				
CR-X	Utility:	Chilled Water Return	Pressure difference ΔP CS/CR must be greater than 7 PSIG.	Insulated Hard Pipe	X	
	Connection Size/Type:	1 1/4 inch / MNPT				
CW-X	Utility:	Cold Water	Cold water is used to prime the condensate pump. Water should be softened to 0-60 ppm. Back flow prevention must be supplied by customer, as per local code.	Flex		X
	Connection Size/Type:	1/2 inch / MNPT				
	Peak Consumption:	2.2 gal/min				
	*Consumption per Load:	2.6 gal				

PHYSICAL SPECIFICATIONS

	Parameter:	Carry-In Dimensions			Machine Alone (i.e. removed from packaging)
		Chamber	Tech Frame	Face Panel	
	Height:	70.4 in	72 in	78.7 in	
	Width:	39 in	31 in	70.9 in	
	Length:	90 in	40 in	31.5 in	
	Parameter:	Chamber Usable Dimensions			
	Height:	42.5 in			
	Width:	26 in			
	Length:	79.25 in			
	Parameter:	Weights			Transport Weight = Machine + Crating Operating Weight = Machine + Load
	Transport Weight:	5035 lbs			
	Operating Weight:	5236 lbs			
	OSHPD Number:	OPM-0329-13			

*Consumptions calculated under pre-vac cycle with 43 psig at 270° F and water temperature of 60° F.

Additional Information:

- MNPT = Male pipe thread - FNPT = Female pipe thread
- Others must provide service valves and strainers for steam and water supply.
- All utility supplies are other's responsibility.
- Left or Right side chamber is available.

TS-CA9618-HS1_RevB



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