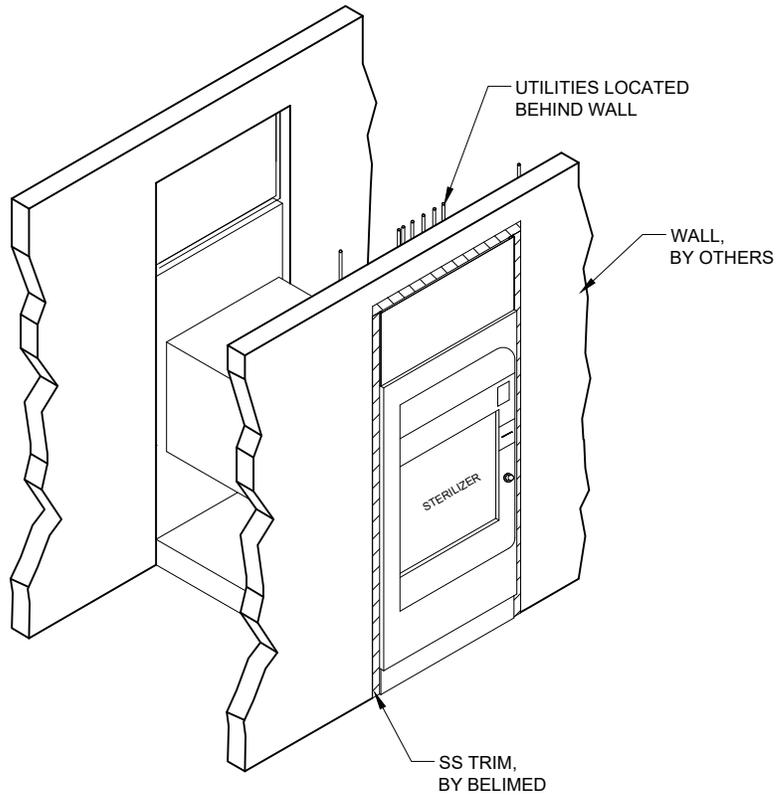


INSET UNIT



RECESSED UNIT

**Belimed**  
**Infection Control**

1535 Hobby Street, Charleston, SC 29405  
 Tel: (800) 457-4117 Web: www.belimed.com

**BELIMED MST-V 609-VS2E**  
 DOUBLE DOOR STERILIZER WITH INTEGRATED BOILER

Typical installation of a Belimed double door MST-V 609-VS2E Sterilizer.	Dwg. No. :	CUT-609-VS2E	Rev. :	G
	Drawn By :	A. JONES	Date :	05/11/18
	Scale :	N.T.S.	Page :	1 of 6



## LEGEND

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

### LINE TYPES

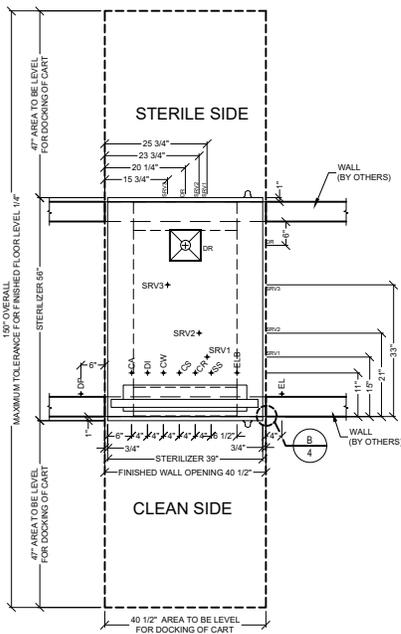
----- FLOOR LEVEL OUTLINE

### HATCH TYPES

-  STAINLESS STEEL TRIM, BY BELIMED
-  STAINLESS STEEL ENCLOSURES, BY BELIMED

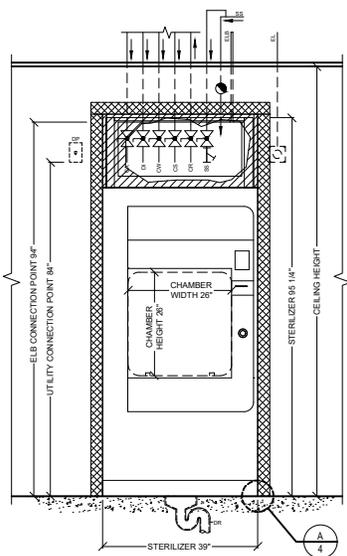
## GENERAL NOTES

1. SEE SHEETS 5 & 6 FOR TECHNICAL SPECIFICATIONS.
2. SEE TYPICAL INSTALLATION DETAILS ON SHEET 4.



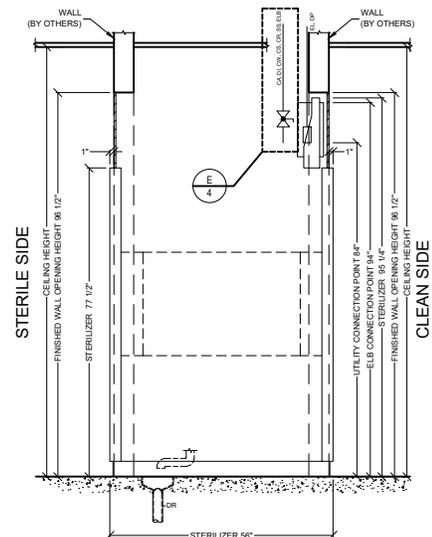
PLAN VIEW

SEE DETAIL D/4 FOR TYPICAL OPTIONAL CHILLED WATER BYPASS.



SEE DETAIL C/4 FOR TYPICAL UTILITY LAYOUT.

CLEAN SIDE ELEVATION



SIDE ELEVATION

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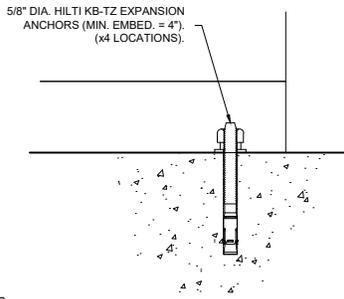
# BELIMED MST-V 609-VS2E

DOUBLE DOOR STERILIZER WITH INTEGRATED BOILER

TECHNICAL DRAWING

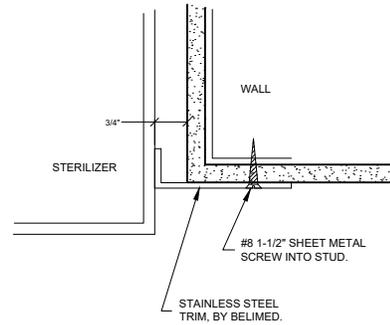
Typical installation of a recessed Belimed MST-V 609-VS2E Sterilizer.

Dwg. No. :	CUT-609-VS2E	Rev. :	G
Drawn By :	A. JONES	Date :	05/11/18
Scale :	1/4" = 1'	Page :	3 of 6

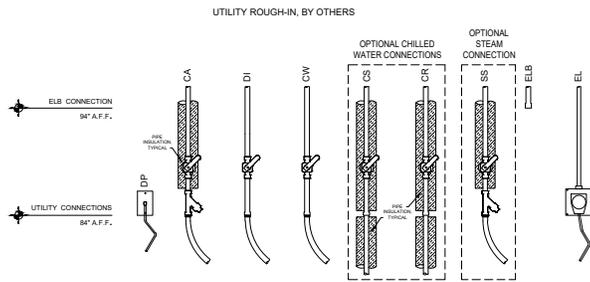


DETAIL FOR FOR REGIONS  
REQUIRING SEISMIC ANCHORAGE.

**A** TYP. SEISMIC ANCHORING DETAIL  
VERTICAL SERIES STERILIZER  
N.T.S.



**B** TYP. TRIM ATTACHMENT DETAIL  
VERTICAL STERILIZER  
N.T.S.

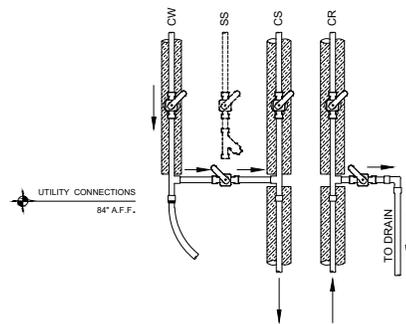


MANUAL SERVICE VALVES, BY OTHERS.

EL - ELECTRICAL (STERILIZER)  
ELB - ELECTRICAL (BOILER)  
CA - COMPRESSED AIR  
DI - DEIONIZED WATER  
CW - COLD WATER  
SS - STEAM (OPTIONAL)  
CS - CHILLED WATER SUPPLY (OPTIONAL, SEE PLANS)  
CR - CHILLED WATER RETURN (OPTIONAL, SEE PLANS)

1. REFER TO EQUIPMENT PLUMBING,  
MECHANICAL AND ELECTRICAL  
PLANS FOR UTILITY LOCATIONS.  
2. SEE TECHNICAL SPECIFICATIONS  
FOR UTILITY SIZING, INPUT  
REQUIREMENTS, AND FINAL  
CONNECTIONS.

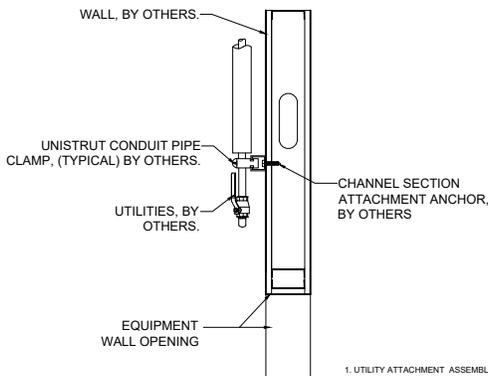
**C** TYPICAL UTILITY LAYOUT  
VERTICAL STERILIZER - (ELECTRIC)  
N.T.S.



MANUAL SERVICE VALVES, BY OTHERS.

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

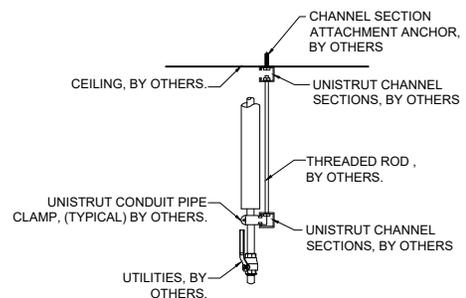
**D** TYP. (OPTIONAL) BY PASS DETAIL  
CHILLED WATER CONNECTION  
N.T.S.



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.

**E** RECOMMENDED TYPICAL WALL HUNG  
UTILITY ATTACHMENT DETAIL (SIDE VIEW)  
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.

**F** RECOMMENDED TYPICAL CEILING HUNG  
UTILITY ATTACHMENT DETAIL (SIDE VIEW)  
N.T.S.

**Belimed**  
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**BELIMED MST-V 609-VS2E**  
DOUBLE DOOR STERILIZER WITH INTEGRATED BOILER

TYPICAL DETAILS  
Typical installation details for a Belimed  
MST-V 609-VS2E Sterilizer.

Dwg. No. :	CUT-609-VS2E	Rev. :	G
Drawn By :	A. JONES	Date :	05/11/18
Scale :	N.T.S.	Page :	4 of 6

**MST-V 609VS2E STERILIZER (W/ INTEGRATED BOILER) - TECHNICAL SPECIFICATIONS**

**REQUIRED INPUTS**

Symbol	Description	Value	Utility Notes	Connection Method	Final Utility Conn. By:	
					Others	Belimed
DI	<b>Utility:</b>	<b>Deionized Water</b>	Deionized water or RO water is used to produce pure steam with the integrated steam generator (boiler). Minimum Water Quality Specifications: Chlorides: < 2 ppm TDS: < 3.9 ppm Conductivity: between 1.0uS and 10.0uS	Flex		X
	<b>Connection Size/Type:</b>	1/2 inch / MNPT				
	<b>Pressure:</b>	Min: 30 Max: 70 psig				
	<b>Peak Consumption:</b>	0.43 gal/min				
	<b>*Consumption per Load:</b>	4 gal				
CW	<b>Utility:</b>	<b>Cold Water</b>	Cold water is used to prime the condensate pump and cool the condensate. Optimal temperature is 60°F (incoming water temp must be 70°F or less). TDS to be < 400 ppm. Water should be softened to 0-60 ppm. Back flow prevention must be supplied by customer, as per local code.	Flex		X
	<b>Connection Size/Type:</b>	1/2 inch / MNPT				
	<b>Pressure:</b>	Min: 30 Max: 70 psig				
	<b>Peak Consumption:</b>	4 gal/min				
	<b>*Consumption per Load:</b>	55 gal				
CA	<b>Utility:</b>	<b>Compressed Air</b>	Air must be dry and oil free. Used to operate pneumatic control system.	Flex		X
	<b>Connection Size/Type:</b>	1/4 inch / MNPT				
	<b>Pressure:</b>	Min: 70 Max: 100 psig				
	<b>Peak Consumption:</b>	1 CFM				
	<b>*Consumption per Load:</b>	10 CF				
EL	<b>Utility:</b>	<b>Electric</b>	Junction Box with Receptacle. NEMA 15-20R to NEC local codes. Grainger part No. 5C793.	Receptacle		X
	<b>Connection Type:</b>	Receptacle				
	<b>Voltage (Nominal):</b>	208 VAC				
	<b>Voltage (Phase):</b>	3 Phase				
	<b>Voltage (Frequency):</b>	60 Hz				
	<b>Circuit Protection:</b>	10 Amps				
	<b>Peak Consumption:</b>	2.3 kW				
	<b>*Consumption per Load:</b>	1 kWh				
ELB	<b>Utility:</b>	<b>Electric for boiler</b>	Service disconnect provided by others per local code.	Hard Wired		X
	<b>Connection Type:</b>	1 1/4 inch / EMT				
	<b>Voltage (Nominal):</b>	480 VAC				
	<b>Voltage (Phase):</b>	3 Phase				
	<b>Voltage (Frequency):</b>	60 Hz				
	<b>Circuit Protection:</b>	50 Amps				
	<b>Peak Consumption:</b>	30 kW				
	<b>*Consumption per Load:</b>	12 kWh				
DP	<b>Utility:</b>	<b>Data Port</b>	Location: Ethernet port should be located within 5 ft of machine within the enclosed service area of the sterilizer.  * (By others)			X
	<b>Connection Method:</b>	TCP/IP Ethernet to hospital network				
	<b>Connection Quantity:</b>	One (1) RJ45 Ethernet port per sterilizer				
	<b>Facility Wiring:</b>	*Cat-5, Cat-6 or Cat-6e wire				
	<b>NIC/Com Speed:</b>	10/100 Mbps Networking Port (RJ45)				
	<b>Broadcast Method:</b>	Unicast				
	<b>MTU Size:</b>	1500				
<b>Final Connection:</b>	Belimed provided patch cables for final connection					X
	<b>Port IP Setup:</b>	Each RJ45 Ethernet Port with individual static IP address				X
	<b>Utility:</b>	<b>Equipment Area Exhaust</b>	Provide sufficient air exhaust to remove 2.3 kW heat rejection.	Indirect Exhaust		X
	<b>Connection Type:</b>	Exhaust return grille				
SRV1	<b>Utility (Chamber):</b>	<b>Safety Pressure Relief Valve</b>	Provide connection to safety relief valve and pipe to drain, atmosphere, or as required by local code.	Hard Pipe		X
	<b>Outlet size:</b>	1 inch / FNPT				
SRV2	<b>Utility (Jacket):</b>	<b>Safety Pressure Relief Valve</b>	Provide connection to safety relief valve and pipe to drain, atmosphere, or as required by local code.	Hard Pipe		X
	<b>Outlet size:</b>	1 inch / FNPT				
SRV3	<b>Utility (Boiler):</b>	<b>Safety Pressure Relief Valve</b>	Provide connection to safety relief valve and pipe to drain, atmosphere, or as required by local code.	Hard Pipe		X
	<b>Outlet size:</b>	1 inch / FNPT				
<b>Optional utilities for chilled water cooling (used for reduction of cold water consumption).</b>						
CS	<b>Utility:</b>	<b>Chilled Water Supply</b>		Insulated Hard Pipe		X
	<b>Connection Size/Type:</b>	1/2 inch / MNPT				
	<b>Pressure:</b>	Min: 30 Max: 90 psig				
	<b>Peak Consumption:</b>	120 kBTU/hr				
	<b>*Consumption per Load:</b>	28 kBTU				
CR	<b>Utility:</b>	<b>Chilled Water Return</b>	Pressure difference ΔP CS/CR must be greater than 7 PSIG.	Insulated Hard Pipe		X
	<b>Connection Size/Type:</b>	1/2 inch / MNPT				
CW	<b>Utility:</b>	<b>Cold Water</b>	Cold water is used to prime the vacuum pump. TDS to be < 400 ppm. Water should be softened to 0-60 ppm. Back flow prevention must be supplied by customer as per local code.	Flex		X
	<b>Connection Size/Type:</b>	1/2 inch / MNPT				
	<b>Pressure:</b>	Min: 30 Max: 70 psig				
	<b>Peak Consumption:</b>	2.2 gal/min				
	<b>*Consumption per Load:</b>	2.6 gal				

CONTINUED ON PAGE 6



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**BELIMED MST-V 609-VS2E**  
DOUBLE DOOR STERILIZER WITH INTEGRATED BOILER

TECHNICAL SPECIFICATIONS	Dwg. No. : CUT-609-VS2E	Rev. : G
Technical Specifications for the installation of a Belimed MST-V 609-VS2E Sterilizer.	Drawn By : A. JONES	Date : 05/11/18
	Scale : NONE	Page : 5 of 6

Optional Steam Bypass					
SS	<b>Utility:</b>	<b>Steam</b>	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.	Flex	X
	<b>Connection Size/Type:</b>	3/4 inch / MNPT			
	<b>Pressure:</b>	Min: 40 Max: 65 psig			
	<b>Peak Consumption:</b>	2.2 lbs/min			
	<b>*Consumption per Load:</b>	33 lbs			
	<b>Consumption while Idle:</b>	0.07 lbs/min			
ESTIMATED EMISSIONS					
DR	<b>Utility:</b>	<b>Open Drain</b>	Provide flush mounted floor sink and trap per local code.	1-1/4" Copper pipe	X
	<b>Connection Size:</b>	1-1/4 inch			
	<b>Discharge Flow Rate:</b>	5.3 gal/min			
	<b>*Consumption per Load:</b>	59 gal			
	<b>Medium:</b>	<b>Noise Radiation</b>	In accordance with ISO3746: 1995 Testing Standards.		
	<b>Radiation (Net):</b>	65 dBA			
	<b>Medium:</b>	<b>Heat Radiation</b>	Heat dissipated into service room with ambient temperature of 86°F.		
	<b>Radiation (Net):</b>	2.3 kWh			
PHYSICAL SPECIFICATIONS					
	<b>Parameter:</b>	<b>Carry-In Dimensions</b>	Machine Alone (i.e. removed from packaging)		
	<b>Height:</b>	81 in			
	<b>Width:</b>	39 in			
	<b>Length:</b>	56 in			
	<b>Parameter:</b>	<b>Chamber Usable Dimensions</b>			
	<b>Height:</b>	26 in			
	<b>Width:</b>	26 in			
	<b>Length:</b>	39.3 in			
	<b>Parameter:</b>	<b>Weights</b>			
	<b>Transport Weight:</b>	2200 lbs	Transport Weight = Machine + Crating		
	<b>Operating Weight:</b>	2990 lbs	Operational Weight = Machine + Load		
	<b>OSHPD NUMBER:</b>	OPM-0131-13			
<p>*Consumptions calculated under pre-vac cycle at 270°F and water temperature of 63°F. Average load/cycle time one hour.</p> <p>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 and connections are customer's responsibility.</p>					
					TS-609-VS2E_RevH

 <p>1535 Hobby Street, Charleston, SC 29405 Tel: (800) 457-4117 Web: www.belimed.com</p>	<h1>BELIMED MST-V 609-VS2E</h1> <p>DOUBLE DOOR STERILIZER WITH INTEGRATED BOILER</p>		
	<b>TECHNICAL SPECIFICATIONS</b>	Dwg. No. : CUT-609-VS2E    Rev. : G	
	Technical Specifications for the installation of a Belimed MST-V 609-VS2E Sterilizer.		Drawn By : A. JONES    Date : 05/11/18
			Scale : NONE    Page : 6 of 6