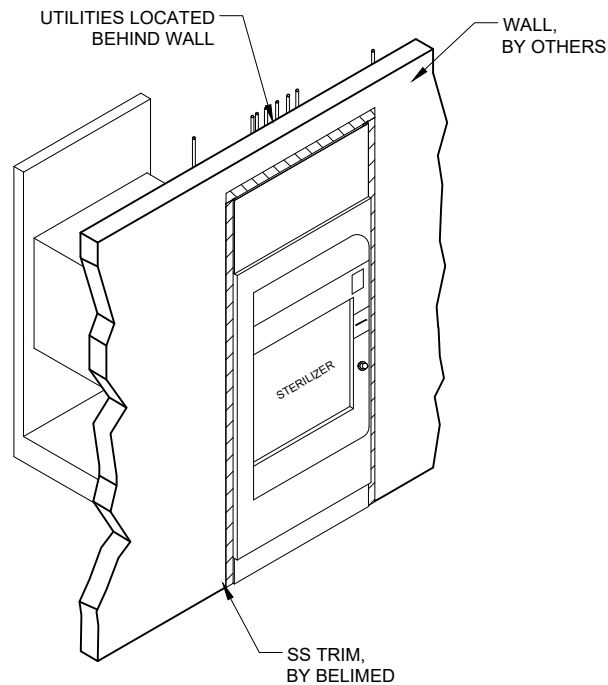
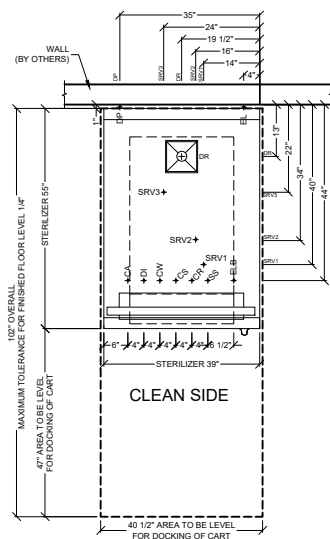


STAND ALONE UNIT

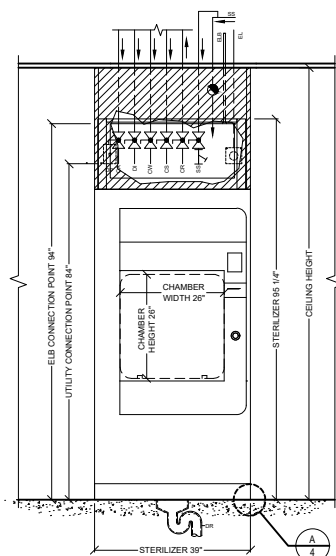


RECESSED UNIT



PLAN VIEW

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



SEE DETAIL C/4 FOR TYPICAL
UTILITY LAYOUT.

FRONT ELEVATION

LEGEND

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

LINE TYPES

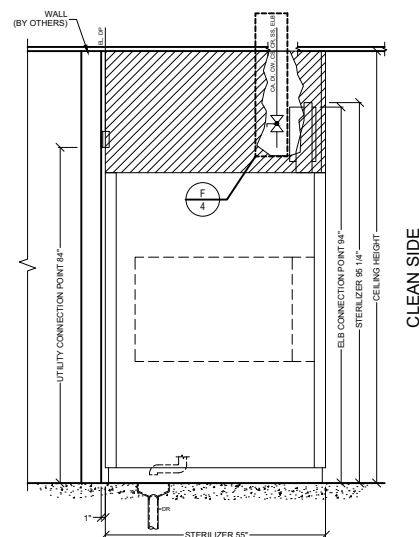
----- FLOOR LEVEL OUTLINE

HATCH TYPES

STAINLESS STEEL ENCLOSURES, BY BELIMED

GENERAL NOTES

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



SIDE ELEVATION

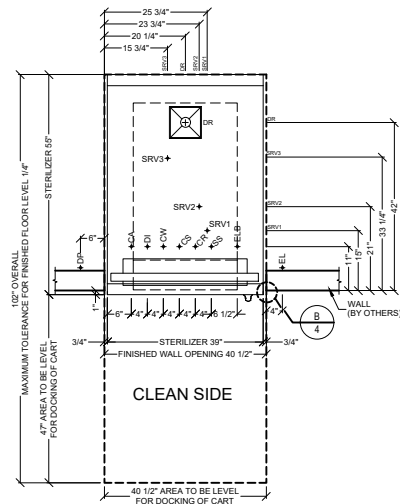
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BELIMED MST-V 609-VS1E
SINGLE DOOR STERILIZER WITH INTEGRATED BOILER

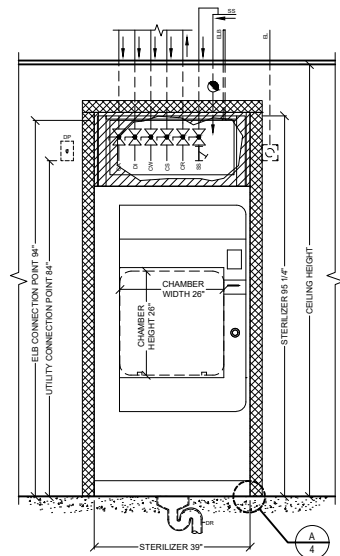
TECHNICAL DRAWING
Typical installation of a stand alone
Belimed MST-V 609-VS1E Sterilizer.

Dwg. No. :	CUT-609-VS1E	Rev. :	H
Drawn By :	A. JONES	Date :	05/11/18
Scale :	3/8" = 1'	Page :	2 of 6



PLAN VIEW




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



SEE DETAIL C/4 FOR TYPICAL
UTILITY LAYOUT.

FRONT ELEVATION



LEGEND

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

LINE TYPES

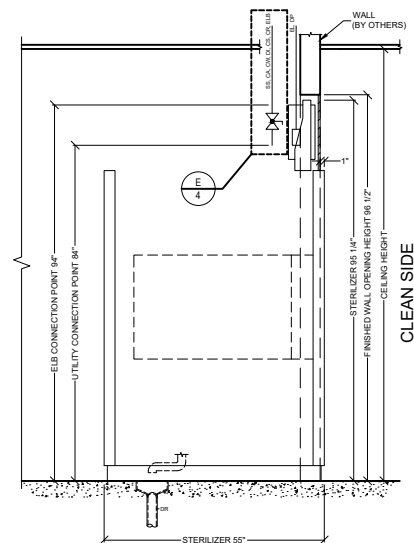
----- FLOOR LEVEL OUTLINE

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.
3. BELIMED RECOMMENDS A MAXIMUM 30" REAR CLEARANCE, WHEN SPACE PERMITS.



SIDE ELEVATION

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BELIMED MST-V 609-VS1E

SINGLE DOOR STERILIZER WITH INTEGRATED BOILER

SINGLE DOOR STERILIZER WITH INTEGRATED BOILER

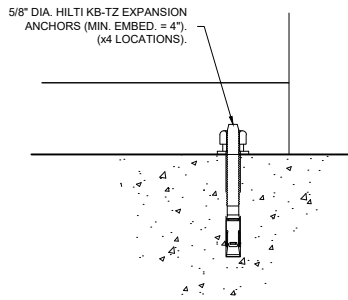
TECHNICAL DRAWING

Typical installation of a recessed Belimed MST-V 609-VS1E Sterilizer.

Dwg. No. :	CUT-609-VS1E	Rev. :	H
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Drawn By :	A. JONES	Date :	05/11/18
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Scale : $3/8" = 1'$	Page : 3 of 6
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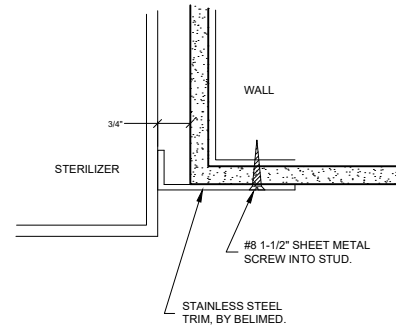


DETAIL FOR FOR REGIONS
REQUIRING SEISMIC ANCHORAGE.

TYP. SEISMIC ANCHORING DETAIL VERTICAL SERIES STERILIZER

A

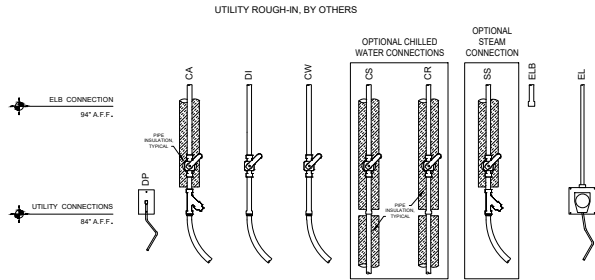
N.T.S.



TYP. TRIM ATTACHMENT DETAIL VERTICAL STERILIZER

B

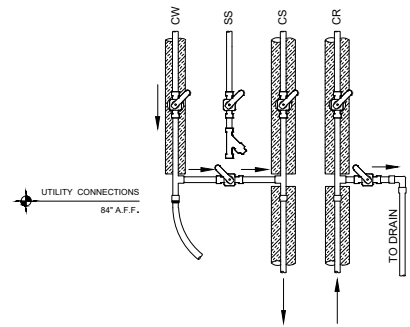
N.T.S.



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.



MANUAL SERVICE VALVES, BY OTHERS.

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

TYPICAL UTILITY LAYOUT VERTICAL STERILIZER - (ELECTRIC)

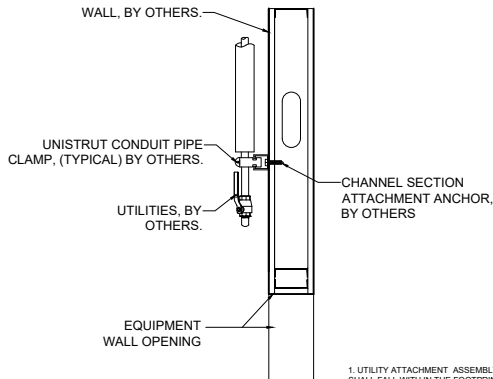
C

N.T.S.

TYP. (OPTIONAL) BY PASS DETAIL CHILLED WATER CONNECTION

D

N.T.S.



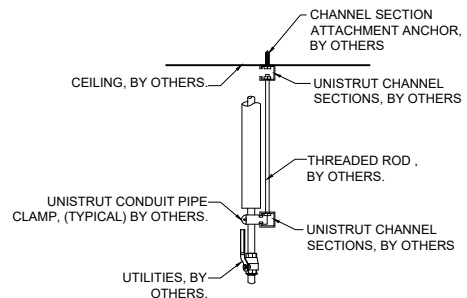
NOTE: REFER TO LOCAL BUILDING
CODES AND/OR SEISMIC
ANCHORAGE REQUIREMENTS FOR
FINAL ATTACHMENT METHOD.

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.

RECOMMENDED TYPICAL WALL HUNG UTILITY ATTACHMENT DETAIL (SIDE VIEW)

E

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.

RECOMMENDED TYPICAL CEILING HUNG UTILITY ATTACHMENT DETAIL (SIDE VIEW)

F

N.T.S.

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BELIMED MST-V 609-VS1E

SINGLE DOOR STERILIZER WITH INTEGRATED BOILER

TYPICAL DETAILS


Typical installation details for a Belimed
MST-V 609-VS1E Sterilizer.

Dwg. No. :	CUT-609-VS1E	Rev. :	H
Drawn By :	A. JONES	Date :	05/11/18
Scale :	N.T.S.	Page :	4 of 6

MST-V 609VS1E STERILIZER (W/ INTEGRATED BOILER) - TECHNICAL SPECIFICATIONS						
REQUIRED INPUTS						
Symbol	Description	Value	Utility Notes	Connection Method	Final Utility Conn. By:	
					Others	Belimed
DI	Utility:	Deionized Water	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
	Connection Size/Type:	1/2 inch / MNPT				
	Pressure:	Min: 30 Max: 70 psig				
	Peak Consumption:	0.43 gal/min				
	*Consumption per Load:	4 gal				
CW	Utility:	Cold Water	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
	Connection Size/Type:	1/2 inch / MNPT				
	Pressure:	Min: 30 Max: 70 psig				
	Peak Consumption:	4 gal/min				
	*Consumption per Load:	55 gal				
CA	Utility:	Compressed Air	Air must be dry and oil free. Used to operate pneumatic control system.	Flex		X
	Connection Size/Type:	1/4 inch / MNPT				
	Pressure:	Min: 70 Max: 100 psig				
	Peak Consumption:	1 CFM				
	*Consumption per Load:	10 CF				
EL	Utility:	Electric	Junction Box with Receptacle. NEMA 15-20R to NEC local codes. Grainger part No. 5C793.	Receptacle		X
	Connection Type:	Receptacle				
	Voltage (Nominal):	208 VAC				
	Voltage (Phase):	3 Phase				
	Voltage (Frequency):	60 Hz				
	Circuit Protection:	10 Amps				
	Peak Consumption:	2.3 kW				
*Consumption per Load:	1 kWh					
ELB	Utility:	Electric for boiler	Service disconnect provided by others per local code.	Hard Wired	X	
	Connection Type:	1 1/4 inch / EMT				
	Voltage (Nominal):	480 VAC				
	Voltage (Phase):	3 Phase				
	Voltage (Frequency):	60 Hz				
	Circuit Protection:	50 Amps				
	Peak Consumption:	30 kW				
*Consumption per Load:	12 kWh					
DP	Utility:	Data Port	Location: Ethernet port should be located within 5 ft of machine within the enclosed service area of the sterilizer. * (By others)			
	Connection Method:	TCP/IP Ethernet to hospital network			X	
	Connection Quantity:	One (1) RJ45 Ethernet port per sterilizer			X	
	Facility Wiring:	*Cat-5, Cat-6 or Cat-6e wire			X	
	NIC/Com Speed:	10/100 Mbps Networking Port (RJ45)			X	
	Broadcast Method:	Unicast			X	
	MTU Size:	1500			X	
	Final Connection:	Belimed provided patch cables for final connection				X
	Port IP Setup:	Each RJ45 Ethernet Port with individual static IP address			X	
	Utility:	Equipment Area Exhaust	Provide sufficient air exhaust to remove 2.3 kW heat rejection.	Indirect Exhaust	X	
	Connection Type:	Exhaust return grille				
SRV1	Utility (Chamber):	Safety Pressure Relief Valve	Provide connection to safety relief valve and pipe to drain, atmosphere, or as required by local code.	Hard Pipe	X	
	Outlet size:	1 inch / FNPT				
SRV2	Utility (Jacket):	Safety Pressure Relief Valve	Provide connection to safety relief valve and pipe to drain, atmosphere, or as required by local code.	Hard Pipe	X	
	Outlet size:	1 inch / FNPT				
SRV3	Utility (Boiler):	Safety Pressure Relief Valve	Provide connection to safety relief valve and pipe to drain, atmosphere, or as required by local code.	Hard Pipe	X	
	Outlet size:	1 inch / FNPT				
Optional utilities for chilled water cooling (used for reduction of cold water consumption).						
CS	Utility:	Chilled Water Supply		Insulated Hard Pipe	X	
	Connection Size/Type:	1/2 inch / MNPT				
	Pressure:	Min: 30 Max: 90 psig				
	Peak Consumption:	120 kBTU/hr				
	*Consumption per Load:	28 kBTU				
CR	Utility:	Chilled Water Return	Pressure difference ΔP CS/CR must be greater than 7 PSIG.	Insulated Hard Pipe	X	
	Connection Size/Type:	1/2 inch / MNPT				
CW	Utility:	Cold Water	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
	Connection Size/Type:	1/2 inch / MNPT				
	Pressure:	Min: 30 Max: 70 psig				
	Peak Consumption:	2.2 gal/min				
	*Consumption per Load:	2.6 gal				

Optional Steam Bypass						
SS	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.	Flex		X
	Connection Size/Type:	3/4 inch / MNPT				
	Pressure:	Min: 40 Max: 65 psig				
	Peak Consumption:	2.2 lbs/min				
	*Consumption per Load:	33 lbs				
	Consumption while Idle:	0.07 lbs/min				
ESTIMATED EMISSIONS						
DR	Utility:	Open Drain	Provide flush mounted floor sink and trap per local code.	1-1/4" Copper pipe	X	
	Connection Size:	1-1/4 inch				
	Discharge Flow Rate:	5.3 gal/min				
	*Consumption per Load:	59 gal				
	Medium:	Noise Radiation	In accordance with ISO3746: 1995 Testing Standards.			
	Radiation (Net):	65 dBA				
	Medium:	Heat Radiation	Heat dissipated into service room with ambient temperature of 86°F.			
	Radiation (Net):	2.3 kWh				
PHYSICAL SPECIFICATIONS						
	Parameter:	Carry-In Dimensions	Machine Alone (i.e. removed from packaging)			
	Height:	81 in				
	Width:	39 in				
	Length:	55 in				
	Parameter:	Chamber Usable Dimensions				
	Height:	26 in				
	Width:	26 in				
	Length:	39.3 in				
	Parameter:	Weights				
	Transport Weight:	1800 lbs	Transport Weight = Machine + Crating			
	Operating Weight:	2560 lbs	Operational Weight = Machine + Load			
	OSHPD NUMBER:	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-VS1E_RevH

 <p>1535 Hobby Street, Charleston, SC 29405 Tel: (800) 457-4117 Web: www.belimed.com</p>	<h1>BELIMED MST-V 609-VS1E</h1> <p>SINGLE DOOR STERILIZER WITH INTEGRATED BOILER</p>		
	TECHNICAL SPECIFICATIONS		Dwg. No. : CUT-609-VS1E Rev. : H
	Technical Specifications for the installation of a Belimed MST-V 609-VS1E Sterilizer.		Drawn By : A. JONES Date : 05/11/18
			Scale : NONE Page : 6 of 6