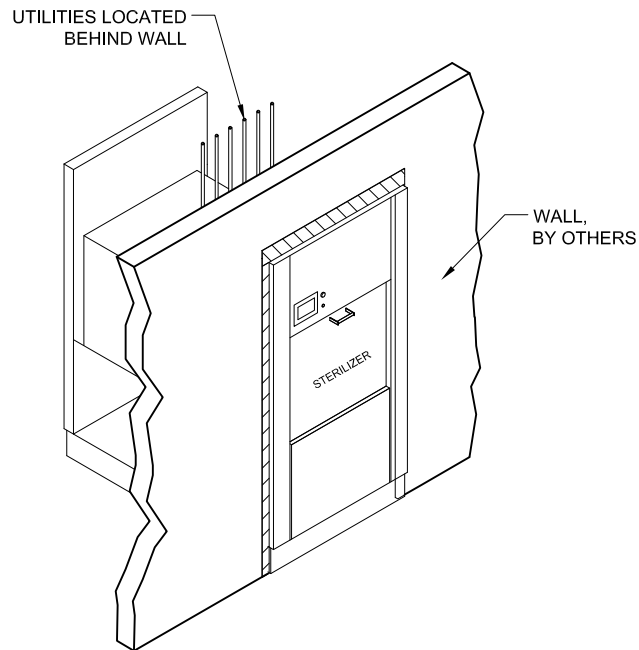


STAND ALONE UNIT



RECESSED UNIT

**Belimed**

Infection Control

2284 Clements Ferry Road, Charleston, SC 29492  
Tel: (800) 457-4117 Web: www.belimed.us

**BELIMED 509-VS1**  
VERTICAL STERILIZER

Typical installation of a Belimed 509-VS1 Sterilizer

Dwg. No. :	CUT-509-VS1	Rev. :	A
Drawn By :	TJC	Date :	6/24/11
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# 509-VS1 STERILIZER - TECHNICAL SPECIFICATIONS

## REQUIRED INPUTS

Symbol	Description	Value	Utility Notes
SS	<i>Utility:</i>	<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.
	<i>Connection Size/Type:</i>	3/4 inch / NPT	
	<i>Pressure:</i>	Min: 40 Max: 60 psig	
	<i>Peak Consumption:</i>	1.5 lbs/min	
	<i>*Consumption per Load:</i>	20 lbs	
CW	<i>Utility:</i>	<b>Cold Water</b>	Cold water is used to prime the condensate pump and cool the condensate. Colder water temperatures will result in less water consumption. Water should be softened to 0-60 ppm. Use sediment filter similar to Grainger part No. 4BA87.
	<i>Connection Size/Type:</i>	1/2 inch / NPT	
	<i>Pressure:</i>	Min: 30 Max: 70 psig	
	<i>Peak Consumption:</i>	4.4 gal/min	
	<i>*Consumption per Load:</i>	40 gal	
CA	<i>Utility:</i>	<b>Compressed Air</b>	Air must be dry and oil free. Used to operate pneumatic control system.
	<i>Connection Size/Type:</i>	1/4 inch / NPT	
	<i>Pressure:</i>	Min: 70 Max: 100 psig	
	<i>Peak Consumption:</i>	1 CFM	
	<i>*Consumption per Load:</i>	10 ft <sup>3</sup>	
EL	<i>Utility:</i>	<b>Electric</b>	4x4 Junction Box with Receptacle. NEMA 15-20R receptacle. Grainger part No. 5C793.
	<i>Connection Type:</i>	Receptacle	
	<i>Voltage (Nominal):</i>	208 VAC	
	<i>Voltage (Phase):</i>	3 Phase	
	<i>Voltage (Frequency):</i>	60 Hz	
	<i>Circuit Protection:</i>	10 Amps	
	<i>Peak Consumption:</i>	1.6 Kw	
	<i>*Consumption per Load:</i>	0.5 kWh	
DR	<i>Utility:</i>	<b>Open Drain</b>	Provide flush mounted floor sink and trap per local code.
	<i>Connection Size/Type:</i>	2 inch / Indirect Drain	
	<i>Discharge Flow Rate:</i>	4.6 gal/min	
	<i>*Consumption per Load:</i>	42.4 gal	
HR	<i>Medium:</i>	<b>Heat Radiation</b>	1 kW dissipated in service room with temperature 86°F.
	<i>Radiation:</i>	1 kW	
SRV1	<i>Utility (Chamber):</i>	<b>Safety Pressure Relief Valve</b>	Provide connection to safety relief valve and pipe to drain, atmosphere, or as required by local code.
	<i>Outlet Size/Type:</i>	1 inch / FNPT	
SRV2	<i>Utility (Jacket):</i>	<b>Safety Pressure Relief Valve</b>	Provide connection to safety relief valve and pipe to drain, atmosphere, or as required by local code.
	<i>Outlet Size/Type:</i>	1 inch / FNPT	

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

CS	<i>Utility:</i>	<b>Chilled Water Supply</b>	
	<i>Connection Size/Type:</i>	3/4 inch / NPT	
	<i>Pressure:</i>	Min: 30 Max: 70 psig	
	<i>Peak Consumption:</i>	8.0 kW	
	<i>*Consumption per Load:</i>	24.6 kBTU	
CR	<i>Utility:</i>	<b>Chilled Water Return</b>	Pressure difference $\Delta P$ CS/CR must be greater than 7 PSIG.
	<i>Connection Size/Type:</i>	3/4 inch / NPT	

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## BELIMED 509-VS1 VERTICAL STERILIZER

TECHNICAL SPECIFICATIONS

Technical Specifications for the installation  
a Belimed 509-VS1 Sterilizer.

Dwg. No.: CUT-509-VS1

Rev.: A

Drawn By: TJC

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## PHYSICAL SPECIFICATIONS

	<b>Parameter:</b>	<b>Carry-In Dimensions</b>	Machine Alone (i.e. removed from packaging)
	<b>Height:</b>	77.8 in	
	<b>Width:</b>	33.7 in	
	<b>Length:</b>	48.3 in	
	<b>Parameter:</b>	<b>Weights</b>	
	<b>Sterilizer Model:</b>	509-VS1	
	<b>Transport Weight:</b>	1764 lbs	Transport Weight = Machine + Crating
	<b>Operating Weight:</b>	1433 lbs	Operating Weight = Machine + Load

\*Consumptions calculated under pre-vac cycle at 270° F and water temperature of 68° F.

**Additional Information:**

- NPT = Male pipe thread -FNTP = Female pipe thread
- Others must provide service connections for all utility supplies.
- Others must provide back flow prevention for water supply.
- All utility supplies and connections are other's responsibility.

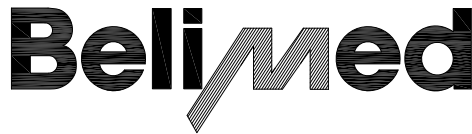
TS-509VS1/VS2\_RevA

### Requirements at Sterilizer(s) with TCP/IP connection

Symbol	Utility	Description	
DP	Data Port	<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 or Cat-6 wire
		<b>Location:</b>	Ethernet port should be located within 5 ft of machine Preferred Ethernet port location is in the enclosed service area of the sterilizer
		<b>Final Connection:</b>	Belimed provided patch cables for final connection
		<b>Port IP setup:</b>	Each RJ45 Ethernet Port with individual static IP address

\* Decision depends upon facility's networking preference. Please contact Belimed with any questions.

TS-ICS8535-ST\_RevB



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## BELIMED 509-VS1 VERTICAL STERILIZER

TECHNICAL SPECIFICATIONS	Dwg. No. : CUT-509-VS1	Rev. : A
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