

6 Series Vertical Sterilizers Product Specification

Product Description

The 6xx Series of vertical door steam sterilizers are designed to provide user selectable gravity and pre-vac steam sterilization cycles. A vacuum pump and efficient handling of the condensate cooling enables minimal use of water. Unique Smart Dry™ Technology varies the dry time based upon load size to ensure consistent, complete drying.

Application

For steam sterilization of unwrapped equipment, wrapped instruments and utensils, glassware, stainless steel components and liquids in vented or unsealed containers.

Models & Dimensions

Model	Chamber Size w x h x d	Chamber Volume ft ³ , (ltr)	Dimensions w x h x d in (mm)
606VS	26" x 26" x 27.6"	10.8 (305.8)	38.6" x 77.5" x 37.8" (980 x 1970 x 960)
609VS	26" x 26" x 39.4"	15.4 (436.1)	38.6" x 77.5" x 49.6" (980 x 1970 x 1260)
612VS	26" x 26" x 51.2"	20.0 (567.2)	38.6" x 77.5" x 61.4" (980 x 1970 x 1560)



Configuration & Options

Door Selections

- Single Door, VS1
- Double Door, VS2

Installation Type

- Recessed
- Cabinet

Options

- Integrated Steam Boiler
- Foot Pedal for Door Operation
- Chilled Water Connection
- Steam to Steam Heat Exchanger (external)
- Shelves (606 and 609)
- Load & Unload Automation

Accessories

- Transport Cart
- Loading Rack
- Seismic Anchoring Kit

Standards

UL61010A-1, UL61010A-2-041, AAMI ST-08

Standard Features

Construction / Design

Chamber - Stainless steel, type 316L, with dedicated steam line

Chamber Insulation – Mineral wool totally encased by aluminum sheet metal to protect the insulation and hold in heat

Doors – Vertically sliding, powered, stainless steel. The motor includes a safety clutch which will stop the door if an obstruction is encountered

Door Seal – A precision milled stainless steel channel in the front of the chamber holds the round, silicone seal. The seal is activated, after door closure, by compressed air and is retracted using a vacuum created by the vacuum pump

Mechanical Vacuum Pump – A highly efficient, liquid ring vacuum pump is provided to remove air during pre-vac, aid in the drying phase and draw in the door seal..

Valves – Pneumatic control valves are used for precise control of steam flow in and out of the chamber and jacket

Jacket – Stainless steel, type 316L, segmented jacket, with separate steam line provides improved control of temperature by eliminating steam overshoot reducing the possibility of superheated steam

Drain Tempering – Condensate is cooled to below 140°F (60°C) before being discharged

Control System –PLC based controller

Display Panel – A TFT color touch panel is used for operator control and display of cycle parameters

Piping – All wetted surfaces are stainless and can be used with clean steam

Printer – Built in 42 column impact dot matrix

Temperature Measurement – Twin PT-1000 RTD's, in a 3 wire circuit, are used to monitor temperatures

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Options

Integrated Steam Boiler – An electric boiler can be installed in the top area of the sterilizer to provide local steam when house steam is not available. The boiler can be fed with tap water or DI/RO water can be used to provide clean steam

Foot Pedal – Provides a hands-off method to open the vertically sliding door

Chilled Water Connection – The sterilizer can be connected to a chilled water system to essentially eliminate potable water use. Cooling of the condensate and vacuum are improved with the consistent lower temperature of the chilled water

Steam to Steam Heat Exchanger – Uses house steam as a heat source to boil DI or RO water to produce clean steam for the sterilizer

Shelves – Pull out shelves can be installed

Cycle Description

All 6xx series sterilizers are factory pre-programmed with 9 cycles, including 3 gravity, 4 pre-vac, liquid and Air Removal (Bowie-Dick) cycles as well as a leak test. A total of 10 cycles, maximum, can be stored.

Automation

Optional automatic unload is available for single and double door units, automatic load and unload is available for 2 door units.

Installation

Matching stainless enclosures, fabricated for various ceiling heights, are included to provide a smooth finish to wall recessed sterilizers. For standalone cabinet type units, a full stainless enclosure is provided.

Preventive Maintenance

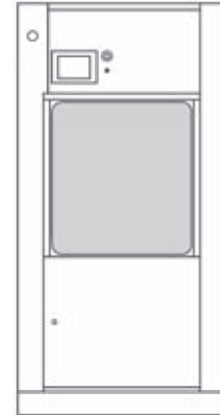
Belimed recommends regular preventive maintenance to ensure proper operation of the equipment. Belimed maintains a nationwide, factory trained Service Technician Group which can perform this maintenance and/or train Biomedical staff on the proper procedure. Belimed also offers a number of PM Plans. Contact Belimed Technical Service for more details.

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Technical Information

For REFERENCE Only – Refer to Cutsheets for Construction Purposes

Model		Outside Dimensions w x h x d (mm)	Loading Height (mm)
Single door	Double Door		
606VS1	606VS2	38.6" x 77.5" x 37.8" (980 x 1970 x 960)	30.9" (785)
609VS1	609VS2	38.6" x 77.5" x 49.6" (980 x 1970 x 1260)	30.9" (785)
612VS1	612VS2	38.6" x 77.5" x 61.4" (980 x 1970 x 1560)	30.9" (785)



(606 , 609 , 612) VS1/VS2 STERILIZERS - TECHNICAL DATA															
Ref.	Utility	Connection		Pressure			Peak Consumption*			Consumption/Load*					
		Size	Type	606	609	612	units	606	609	612	units	606	609	612	units
SS	Steam supply	3/4"	FNPT	40-50			PSIG	1.7	2.4	3	lb/min	29	35	41	lb
CW	Cold Water	1/2"		30-70				4.4	5.2		gal/min	42	50	58	gal
CA	Compressed Air	1/4"		70-100				0.18		CFM	11		ft ³		
EL	Electric Supply	4X4 junction box w/ receptacle			1.7			kW		0.5		kWh			
DR	Open Drain	Indirect drain		4			5.3		gal/min	46	54	62	gal		
CD	Condensate	3/4"	NPT												

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

CS	Chilled Water supply	3/4"	NPT	30-70			PSIG	8.8		gal/min	25k	31k	37k	BTU
CR	Chilled Water Return	3/4"												
CW	Cold Water	1/2"	FNPT	30-70			PSIG	4.4		gal/min	2.6		gal	

Carry-in Dimensions	606	609	612	units
Height	78	78	78	in.
Width	39	39	39	
Length	38	50	61	

Weights	606 VS1	609 VS1	612 VS1	units	606 VS2	609 VS2	612 VS2	units
Transport	1587	1785	1918	lb	1709	1984	2050	
Operating	1786	1984	2293		1918	2117	2425	
Test	2425	2888	3483		2558	3020	3616	