Specification Data Sheet

Clinical AA Steam Sterilizer

Our clinical segment is designed for applications including surgery, central sterile supply, dental, and clinical laboratories.

PRIMUS sterilizers are designed and manufactured in the USA at our quality controlled ASME facility according to Quality Management Systems which are in compliance with ISO 001:2000, ISO 13485:2003, CMDCAS and FDA's Good Manufacturing Practice (GMP) for Medical Devices: General Regulation (21CFR Part 820).



Dimension: 16"x16"x26" 406.4x406.4x660.4mm All PRIMUS pressure vessels are constructed of solid stainless steel. The brilliant Pri-Mirror® reflective chamber finish sets the highest standard for cleanliness and offers easy spill clean-up. This finish provides resistance to staining and degradation. All PRIMUS pressure vessels are rectangular in shape, eliminating wasted space and jacketed to ensure even heating during each cycle.

All models include Vacuum, Gravity, Liquids, and Test/Vac cycles. A PSS500 microcomputer will offer a selection of eight programs, set by the user, for the sterilization of a wide range of products.

PRIMUS' sliding door design reduces the high service cost associated with conventional hinged arm doors and provides an added margin of operator safety. PRIMUS

vertically operating doors operate with minimal hand pressure.

Sterilizer pressure vessels manufactured by PRIMUS are warranted against defects in workmanship and materials for fifteen years.

PRIMUS offers a variety of customizations to ensure that your sterilizer works for



Specification Drawings







Technical Dimensions

Sterilizer Dimensions				
26x73x32-1/2 (635 x 1854.2 x 825.5)				
200lbs / 91kg				
43x81x47 (1092.2 x 2057.4 x 1193.8)				
95ft ³ / 3m ³				
N/A				
175 lbs / 79 kg				
F				

HVAC Data (KBTU's/HR)				
Single Door: 1 wall, fascia	1.5			
Single Door: 1 wall, service area	1.9			
Single Door: Free standing, total	3.4			
Double Door: 1 wall, fascia	1.5			
Double Door: 1 wall, service area	3.3			
Double Door: 2 walls, fascia	1.5			
Double Door: 2 walls, service area	1.8			

Volume and Dimensions				
Chamber Size	16 x 16 x 26 (406.4x406.4x660.4 mm) 3.9 ft3 (.11 m3)			
Overall Width	25.38 / 644.6			
Overall Height	74.00 / 1879.6			
Overall Length	33.88 / 860.5 SD (35.94 / 912.9 DD)			
Wall Opening Width	26.00 / 660.4			
Wall Opening Height	73.00 / 1854.2			
Wall Opening Length	32.00 / 812.8 SD (27.69 / 762.0 DD)			
Fascia Width	30.00 / 762.0			

Utility Services							
 STEAM (S) Building Steam Supply Pipe Size: ³/₄" NPT, 50 lbs/hr (22.68 kg/hr) Quality: Condensate-free 97% to 100% saturated vapor (suitably trapped to ensure dry steam and filtered to remove particulates) Pressure: 50-80 PSIG Dynamic 	WATER (W) Cold Water Supply • Pipe Size: ¼" NPT, 8 GPM (30 LPM) • Temperature: < 70° F • Pressure: 50-70 PSIG Dynamic	AIR (A) Instrument Air • Connection: ¼° NPT • Quality: Dry and oil-free • Pressure: 60-80 PSIG Dynamic	 DRAIN (D) Building Drain System (Minimum 2") Pipe Size: ¾" NPT Location: Locate floor sink directly under sterilizer Note: Exhaust discharge is cooled to < 140° F 12"x12"x8" floor sink is recommended by PRIMUS 	ELECTRICAL (E) Building Power Supply – Dedicated Circuit • Volts: 110 • Phase: Single • Amps: 10 Note: Additional circuits required for ancillary and optional equipment (i.e. vacuum pump, boost pump, boiler, etc)			

Control Cycles

Factory Preset Cycles (PSS500 Control)						
Load Type	Cycle Number	Cycle Type	Sterilize Temp	Sterilize Time (Min)		
Double wrapped instruments 16 lbs each	1	Vacuum	273° (134°C)	15		
Unwrapped nonporous single instrument	2	Vacuum	273° (134°C)	4		
Double wrapped instrument trays 16 lbs each tray	3	Vacuum	273° (134°C)	4		
Textile Pack 12 lbs	4	Vacuum	273° (134°C)	4		
Unwrapped nonporous single instrument	5	Gravity	273° (134°C)	4		
Fabric packs maximum size: 12x12x20, 12 lbs	6	Gravity	253° (122.8°C)	30		
Vented Borosilicate glass containers, 500ml or smaller	7	Liquids	253° (122.8°C)	30		
Bowie-Dick Test	8	Test (VAC)	273° (134°C)	3 1/2		

Control Options

- Thermal Printer (R7) Thermal dot-matrix printer with take-up reel and 32 character per line printing. Second sterilization cycle report available at the end of the run.
- Remote Mount Control Panel (C10) Mount control panel in separate housing adjacent to or up to 35 feet away from the sterilizer.
- Serial Data Output (C11) Supervisory use to capture electronic record of each sterilization cycle. Cycle hard copy and display data is transmitted via RS232 in real time to a remote computer, up to 100 feet away, for display and recording. Hard copy records may be printed from the computer.

General Options

- Validation Port, 1" (V3.1) Provides chamber penetration to accommodate various monitoring/control probes.
- Seismic Restraints (V8) Required in areas prone to seismic hazards. Secures sterilizer to building but allows for leveling. Designed to California code.
- Power Operated Door (DF) Hydraulic power operation actuated by mushroom switch mounted to adjacent to chamber. Foot switch available. Double door models include control panel pad actuation in lieu of mushroom button.



The PRIMUS PSS500 Control System

Additional Options

Configuration Options

DOOR

- □ Single Door (DA)
- Double Door (DB)

<u>CABINET</u>

- □ Panels Both Sides (CD)
- □ Left Side Panel (CCL)
- □ Right Side Panel (CCR)
- □ Top Panel (CE)

<u>RECESSED</u>

- One Wall (CA)
- □ Two Walls (CB)

Utility-Related Options

- Boost Pump for Low House Water Pressure (P3)
 Delivers required dynamic water pressure for efficient operation.
- Water Conservation System (P24) Reduces sterilizer water usage by up to 97%.
- Reverse Osmosis System (P30) Reduces chemicals toxic to sterilizer boiler, significantly increasing it's life.

Clinical Laboratory Options

□ Low Temperature Flowing Steam (P14) Pasteurization is accomplished with flowing steam. Allows the sterilizer to operate in the temperature range of 168°F (76°C) to 220°F (104°C). Not intended for reprocessing reusable medical devices.

SERVICE ACCESS

- □ Left Side (Standard)
- Right Side
- STEAM SOURCE
- □ House Supply
- Electric Boiler
- 208/3 phase (EB1) 240/3 phase (EB2) 480/3 phase (EB3)
- Automatic Blowdown (EB0)
- Transformers (E1) Reduces line voltage to required 110 VAC for operation of sterilizer controls. (E1A-220—100 VAC, E1B-480—110 VAC, E1C-480/240—240-120, 1 phase, 0.5 KVA)
- Uninterruptible Power Supply (E2) In case of power outage, provides emergency power to sterilizer (control system only) for up to 30 minutes to complete cycle.

Loading Equipment

- Loading Cart (L4) 316L stainless steel. Includes one bottom and one intermediate shelf with four adjustable levels. Shelf surfaces are stainless steel wire mesh.
- Transfer Carriage (L6) Includes swivel casters with swivel locks and 5" wheels with wheel brakes.
- □ Removable/Extendable Shelving Additional chamber shelf also available.

"Quality by Design, Excellence by Choice"



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