STERIS®

AMSCO® CENTURY® MEDIUM STEAM STERILIZER 26" X 37.5" (SCIENTIFIC)

APPLICATION

This sterilizer is offered in a prevacuum configuration and is designed for fast, efficient sterilization of heat- and moisture-stable materials in scientific applications. The prevacuum configuration sterilizer is equipped with prevacuum, gravity, liquid, leak test, and daily air removal (Bowie-Dick) test cycles.

The 48" (1219 mm) and 60" (1524 mm) configurations include choice of a single or a double door; 36" (914 mm) configuration provides single door only.

DESCRIPTION

The Amsco Century Medium Steam Sterilizer 26" x 37.5" is equipped with the latest features in both state-of-the-art technology and ease of use.

Interior Chamber Dimensions

- 26 x 37.5 x 36" (660 x 953 x 914 mm)
- 26 x 37.5 x 48" (660 x 953 x 1219 mm)
- 26 x 37.5 x 60" (660 x 953 x 1524 mm)

The sterilizer can be ordered with one of two door configurations:

- **Hinged door** with fast operating, low-effort door lock mechanism. Manual door handle lock lever requires a single 30° handle movement to lock or unlock.

Hinged Door Model

Horizontal-Sliding Door Model

(Typical only - some details may vary.)

- **Sliding door** with quiet, motor-driven cable and pulley mechanism. Power operated door travels horizontally right to left to open and is controlled from the touch screen.

The Selections Checked Below Apply To This Equipment

SIZE

☐ 26 x 37.5 x 36" (660 x 953 x 914 mm)
☐ 26 x 37.5 x 48" (660 x 953 x 1219 mm)
☐ 26 x 37.5 x 60" (660 x 953 x 1524 mm)

DOOR CONFIGURATION

☐ **Single-Door**
- ☐ Hinged
- ☐ Horizontal-Sliding

Select direction of door swing or movement, as viewed from operating end of sterilizer:
- ☐ Left-Hand
- ☐ Right-Hand (not available for sliding-door units)

☐ **Double-Door***
- ☐ Hinged Door

* *26 x 37.5 x 36" (660 x 953 x 914 mm) sterilizers not available in double-door configuration.*

NOTE: Operating end hinge position listed first; non-operating end hinge listed second.
- ☐ Right-Hand/Left-Hand
- ☐ Right-Hand/Right-Hand
- ☐ Left-Hand/Right-Hand
- ☐ Left-Hand/Left-Hand

☐ Horizontal-Sliding Door

NOTE: Operating end slide direction listed first; non-operating end slide direction listed second.
- ☐ Left-Hand/Right-Hand

SINGLE-DOOR MOUNTING

☐ Cabinet Enclosed/Freestanding
☐ Recessed

DOUBLE-DOOR MOUNTING

☐ Recessed through One Wall
☐ Recessed through Two Walls

STEAM SOURCE

☐ Building Steam
☐ Integral Indirect Clean Steam Generator
☐ Electric Steam Generator, Carbon Steel*
☐ Electric Steam Generator, Stainless Steel*

* *An SSQ is required for double door cabinet enclosed units with integral steam generators.*

VACUUM PUMP ELECTRIC SERVICE

☐ 208/240 VAC, 60 Hz, 3-Phase, 6 A/Phase
☐ 480 VAC, 60 Hz, 3-Phase, 3 A/Phase

OPTIONS

☐ Liquid Air Cooling (with Vacuum)
☐ Decontamination (with Vacuum)
☐ Pure Steam Piping
☐ RTD Load Probe and F_0 Sterilization
☐ Bio-Seal (double door units only)
☐ Visible Pressure Gauges
☐ Air Differential Seal (double door units only)
☐ Eighteen-Cycle Capability
☐ One 1" Chamber Penetration
☐ One 1" and One 3" Penetration
☐ Tri-Clamp Penetration
☐ Dual Controls
☐ Reference Recorder (3 Pen)
☐ Backflow Preventer
☐ Auto Flush for Steam Generator

ACCESSORIES

☐ 36" (914 mm) Chamber Length
☐ 48" (1219 mm) Chamber Length
☐ 60" (1524 mm) Chamber Length
- ☐ Loading Car
- ☐ Transfer Carriage
- ☐ Chamber Track Assembly
  - ☐ Single Door
  - ☐ Double Door
- ☐ Loading Car, Transfer Carriage and Track Assembly
  - ☐ Single Door
  - ☐ Double Door

☐ Chamber Rack and Shelf 36" (914 mm) Chamber Length
☐ Chamber Rack and Shelf 48" (1219 mm) Chamber Length (36" [914 mm] and 48" [1219 mm] units only)
☐ Seismic Tie-Down Kit (based on CA requirements)
☐ Air Compressor, Portable, 115 Vac

REMOTE MONITORING

☐ ProConnect™ Response Center (Remote Monitoring, Priority Technical Support, Customer Care Center Access, Equipment Performance Reports)

Item _____

Location(s)_____

_____

Century control system with enhanced functionality and user-friendly color interface screen features:

- Touch-sensitive screen with 30-line x 40-character color display. The control's touch screen color display features a wide viewing angle and high-visibility backlighting.
- Ink-on-paper impact printer.
- Help screens for programming and troubleshooting alarm conditions.
- Standard communication interface with most PC-compatible peripheral devices (e.g., disk drives, printers).
- Automatic check of control program and cycle data maintains process integrity.
- Vacuum pump supplied on all units to effectively pull chamber to specified vacuum levels and reduce water consumption.

STANDARDS

Each sterilizer meets applicable requirements of the following listings and standards, and carries the appropriate symbols:

- **EMC Directive:** 2004/108/EC, 93/68/EEC, 92/31/EEC, 89/336/EEC.
- **Low Voltage Directive:** 2006/95/EC, 93/68/EEC, 72/23/EEC.
- **Machinery Directive (MD):** 2006/42/EC, 98/37/EEC, 93/68/EEC, 91/368/EEC, 89/392/EEC.
- **Pressure Equipment Directive (PED):** 97/23/EC.
- **Canadian Standards Association (CSA) Standard C22.2, No. 1010.**
- **Underwriters Laboratory (UL) Standard 61010-1** as certified by ETL Testing Laboratories, Inc.
- **ASME Code, Section VIII, Division 1** for unfired pressure vessels. The pressure vessel is so stamped; ASME Form U-1 is furnished. The shell and door are constructed to withstand a working pressure of 45 psig (3.1 bar).

FEATURES

26 x 37.5" (660 x 950 mm) chamber cross-section is sized to allow for efficient, high-volume processing.

Fast-operating, low-effort manual door lock mechanism (hinged-door models) allows the door to be locked or unlocked, using a single 30° handle motion.

Power horizontal-sliding door. Control panel operated horizontal-sliding door is available in left-hand, single- or double-door models.

Resistive Thermal Detectors (RTD) are installed for sterilizer temperature control. The chamber drain line RTD senses and controls temperature variations within the sterilizer chamber. A jacket RTD provides temperature control within the jacket space. These RTD signals, converted into electrical impulses, provide accurate control inputs and readouts throughout the entire cycle.

Electronic water saving control includes an RTD to control the amount of water used in condensing the exhausted chamber steam.

Software calibration is performed in the service mode, accessible through the touch screen displays, and accomplished using external or internal temperature and pressure sources. The control system provides printed record of all calibration data for verification to current readings.

Automatic utilities startup/shutdown permits slow cooling of the entire vessel and load. Shutdown may be programmed to activate at the end of any designated cycle or time of day. When activated, the control system automatically shuts off all utility valves, conserving steam and water usage. Sterilizer utilities can be restarted either by programmed time or manual operation. A different shutdown and restart time can be programmed for each day.

Steam purge feature is provided to assist in air removal and to preheat the load.

Two-piece insulation sleeve is fitted around the exterior of the sterilizer vessel. The sleeve is sealed and held in place by hook-and-loop closures. Insulation is asbestos-free and chloride-free, silicone impregnated, oil- and water-resistant fiberglass.

Lighted DIN connectors are installed on all steam, water, and exhaust valves for reliability and ease of maintenance.

ProConnect™ Response Center - Minimize response time and minimize unscheduled downtime on your equipment. Secure, internet-based, 24/7 remote monitoring enables both Predictive Maintenance as well as instant alerts to STERIS when there is an equipment alarm. Also included are priority technical support, online parts ordering, equipment performance dashboards, and scheduling service at eservice.steris.com.

PROCESSING CYCLES

This scientific sterilizer is factory programmed with the following cycles:

- **Gravity Cycle:** for the sterilization of heat- and moisture-stable goods at 100°C to 137°C), and decontamination of bagged basic laboratory wastes. The gravity cycle uses the gravity air-displacement principle.
- **Liquid Cycle:** for the sterilization of liquids and media in vented borosilicate glass or metal containers at 100°C to 123°C. Liquid cycle uses the optimal solution cooling feature during the exhaust (cooling) phase to control the exhaust rate.

TEST CYCLES

- **Vacuum Leak Test** is used for testing the vacuum integrity of the sterilizer's piping. Sterilizer chamber must be empty while running this test cycle. All temperatures and timing are preprogrammed and cannot be adjusted.
- **Dart® Daily Air Removal Test Cycle** is used to conduct a Bowie-Dick test on the sterilizer. Recommended load is a Dart pack, or a properly prepared Bowie-Dick test pack. Sterilize exposure temperature: 132°C; sterilize exposure time: 3-1/2 minutes; dry time: 1 minute.

OPTIONAL CYCLE

Liquid Air Cool Cycle provides water to the jacket, and air pressure to the chamber to improve exhaust time for liquid loads, and to reduce boil over.

Effluent Decontamination Cycle is used for the processing of contaminated laboratory waste (BL-3 and BL-4). The condensate produced during the processing cycle is decontaminated before discharge to the floor drain. The steam is admitted through the bottom of the sterilizer chamber, and the chamber is exhausted out the top side of the vessel. During the purge and vacuum pulses, all purge and exhaust gases are vented through a 0.2 micron bacterial retentive filter. The filter housing is steam jacketed to prevent wetting of the filter membrane.

CONTROL SYSTEM

Design Features

The Century control system monitors and controls all sterilizer operations and functions. The control system is factory-programmed with standard sterilizing cycles. Each cycle is adjustable to meet specific processing requirements. All control configuring is performed using the touch screen displays.

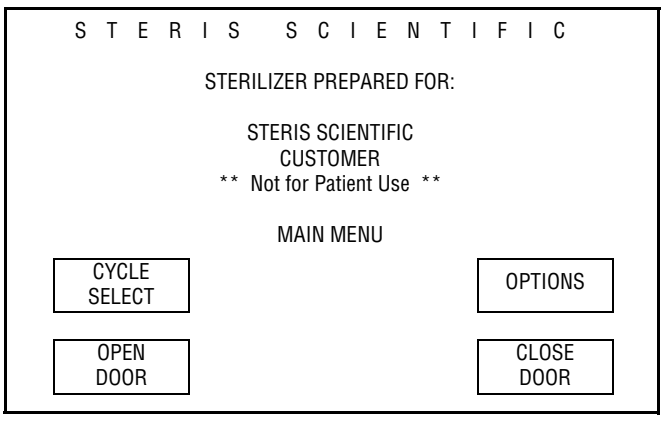
IMPORTANT: If factory-programmed cycle values are changed, it is necessary for the operator to validate the efficacy of the changed cycle.

Cycle values and operating features may be adjusted and verified prior to cycle operation. Once a cycle is started, cycles and cycle values cannot be changed until the cycle is complete. On completion of the cycle, timers reset to the previously selected values, eliminating the need to reset values between repeated cycles. If the chamber temperature drops below the set point during the exposure phase, the timer is set to stop. Timer will automatically reset once normal operating temperature is reached.

Critical control system components are housed within a sealed compartment to protect the components from moisture and heat generated during the sterilization process. A cooling fan with filter is installed in the housing compartment to maintain positive pressure within the compartment, keeping components cool and dust-free.

Operator interface control panel, consisting of a touch screen and impact printer, is located on the operating (load or nonsterile) end of the sterilizer. If the sterilizer is equipped with double doors, an additional touch screen is provided on the sterilizer's non-operating (unload or sterile) end.

- **Touch-sensitive screen** features a 30-line x 40-character color graphics display. The control's touch screen color display features a wide viewing angle and high-visibility backlighting. All sterilizer functions, including cycle initiation and cycle configuration, are operated by pressing the touch-sensitive areas on the display, referred to as "touch pads." Display indicates appropriate control buttons, operator prompts, and status messages necessary to assist in sterilizer operation. All displayed messages are complete phases with no codes to be cross-referenced. Display also indicates any abnormal conditions that may exist either in or out of a cycle.
- **Ink-on-paper impact printer**, located above the touch screen, provides an easy-to-read printed record of all pertinent cycle data on 2-1/4" (57 mm) wide paper. Data is automatically printed at the beginning and end of each cycle and at transition points during the cycle. Printer take-up spool stores an entire roll of paper, providing cycle records which can be saved for future reference. Three paper tape rolls and two printer ribbons are furnished with each unit.



Non-operating end (NOE) control panel, equipped on double-door sterilizers only, includes a touch-sensitive screen similar to the operating end screen. Preprogrammed cycles can be started from the NOE control panel. The display concurrently shows the same information as the operating end screen display.

Cycle configuration is performed by accessing the change values menu through the operating end touch screen. The change values menu can be used to adjust cycle values and the following operating parameters:

- **Time display and printout units** in AM/PM or 24-hour (MIL).
- **Access code** requires entry of a four-digit access code to operate the sterilizer and/or change the cycle values. Operator is prompted to enter an access code when initiating a cycle or accessing the change values menu. If the access code is not properly entered, the display returns to the standby or main menu screen, denying user access to the sterilizer or programming.
- **Audible signals** are adjustable. **Touch pad** and **end-of-cycle signals** can be adjusted to one of four sound levels (off, low, medium, or high) as required for the operating environment. **Alarm signal** can be adjusted to low, medium, or high (it cannot be turned off).
- **Print format** allows selection of either a full or condensed printout of the cycle information during processing.
- **Temperature display and printout units** appear in Celsius (°C). Temperature is set, displayed, controlled, and printed to the nearest 1°. Recalibration is not required when changing temperature units to Fahrenheit (°F).
- **Pressure/vacuum display and printout units** appear in psig/InHg or bar. Recalibration is not required when changing pressure units.

Technical Data

The control system consists of microcomputer control boards and peripheral function circuit boards, located within the control PC board housing.

An **internal battery** backs up all cycle memory for up to 10 years. If a power failure occurs during a cycle, the battery backup system assures that cycle memory will be retained and proper cycle completion will occur once power is restored. When power is lost, the cycle is held in phase until power is restored. Once power returns, the event is recorded on the printout and the cycle automatically resumes or restarts, depending on what phase the cycle was in at the time of power loss. The operator can choose to manually abort the cycle.

SAFETY FEATURES

Control lockout switch, located on the chamber door, senses when the door seal is energized and tight against the door. The control prevents the cycle from starting until the limit switch signal is received. If the control loses the appropriate signal during the cycle, the alarm activates, the cycle aborts, and the chamber safely vents with a controlled exhaust.

Chamber float switch activates the alarm, aborts the cycle, and safely vents the chamber with a controlled exhaust if excessive condensate is detected in the vessel chamber.

Pressure relief valve limits the amount of pressure buildup so the rated pressure in the vessel is not exceeded.

CONSTRUCTION

Shell Assembly

Two fabricated Type 316L stainless-steel shells, welded one within the other, form the sterilizer vessel. Type 316L stainless-steel end frame(s) is welded to the door end. On a single door unit, the back of the chamber is fitted with a welded 316L stainless-steel dished head.

The sterilizer vessel is ASME and PED rated at 45 psig (3.1 bar) and insulated. The vessel includes one 1"-NPT access port for Customer use.

The steam-supply opening inside the chamber is shielded by a stainless-steel baffle.

Chamber Door(s)

The door is constructed of Type 316L stainless steel.

During cycle operation, the door is sealed by a steam-activated door seal. The door seal is constructed of a special long-life rubber compound. When the sterilizer cycle is complete, the seal retracts under vacuum into a machined groove in the sterilizer end frame.

A proximity switch is used by the control to determine if the door is closed. An additional seal pressure switch prevents inadvertent cycle initiation if the door is not sealed.

The door assembly is equipped with a mechanical locking mechanism that prevents the door from opening, as long as the seal is intact and energized, and more than 2 psi (0.14 bar) pressure is in the chamber. The door assembly is equipped with a mechanical locking mechanism that ensures the door cannot be opened, as long as the seal is intact and energized, and more than 2.0 psi pressure is in the chamber. Door interlocks on double door sterilizers can be programmed to prevent inadvertent opening of door(s). Access code is required to override door interlocks.

The sterilizer door is fitted with a stainless-steel panel that insulates the operator from the chamber end ring, lessening the chance of accidental contact with a hot metal surface.

Chamber Drain System

Drain system is designed to prevent pollutants from entering into the water-supply system and sterilizer. The automatic condensing system, consisting of a stainless-steel plate-type condenser, converts chamber steam to condensate, and disposes condensate to waste. Cooling water flow is regulated by the waste line RTD to minimize water usage. Water supply shutoff valve is located in the recessed area of the unit.

Vacuum System

The vacuum pump reduces chamber pressure during prevacuum and post-drying phases. Air is drawn from the chamber through the vacuum system. Following the dry phase, chamber vacuum is relieved to atmospheric pressure by admitting air through a bacteria-retentive filter.

Steam Source

The sterilizer is piped, valved, and trapped to receive building-supplied steam delivered at 50 to 80 psig (3.5 to 5.6 bar) dynamic. Steam piping is constructed of brass and includes a shutoff valve, steam strainer, and a brass pressure regulator.

Steam feeds from the jacket to the chamber. A check valve is added between the jacket and chamber on sterilizers with decontamination cycle option.

Integral Electric Steam Generator

A 65 kW generator is available for this sterilizer. The generator is manufactured of either carbon steel or stainless steel, and is positioned beneath the sterilizer. Additional floor space either at the rear of the sterilizer (single door chamber) or at the side (double door chamber) is required. Additional utility requirements are also needed. Refer to the appropriate equipment drawings if an integral steam generator is required.

Integral Indirect Clean Steam Generator

Utilizes the Customer's plant steam (minimum 75 psig [517 kPa]) and high quality water (minimum specific resistivity of 1.0 megohm/cm) to supply pure steam to the sterilizer. The generator system is integrally mounted to the sterilizer framework and is automatically operated by the sterilizer's electronic control system. The clean steam-to-chamber piping option must also be selected.

Piping

All piping connections terminate within the confines of the sterilizer, and are accessible from the front and left side of the unit.

- **Solenoid valves** with DIN connectors simplify sterilizer piping and can be serviced individually.
- **Manual shutoff valves** are pressure rated at 125 psig (8.62 bar) for saturated steam. Valve handles are low-heat conducting. Valves are provided for steam, water, and emergency drain line exhaust.

MOUNTING ARRANGEMENT

The sterilizer is designed for either freestanding or recessed installation, as specified. (For double-door mounting, the recessed installation can be through one or two walls.) Each sterilizer is height-adjustable. Sterilizer subframe is equipped with a synthetic rubber gasket to provide a tight fit between the cabinet panels on freestanding systems, or between the front cabinet panel and wall partition on recessed systems.

Stainless-steel side panels and a louvered top panel enclose the sterilizer body and piping on freestanding systems.

ACCESSORIES

Seismic tie-down kit conforms to Title 24 California Code of Regulations, 1993 Amendment Section 2336(B).

Material handling accessories include stainless-steel chamber tracks and stainless-steel loading cars with painted-steel carriages. Stainless-steel chamber rack and shelf are available for 39" (991 mm) sterilizers. See separate product literature for details.

Air Compressor, Portable, 115 Vac. This accessory is intended for pneumatic valves on sterilizers when an air utility is not provided by the facility. It may also be used for back-up pressure source for the door seal in bioseal applications.

This is a portable 1.5 Gallon compressor tank that delivers 59.5 LPM @ 345 KPa (1.7 CFM @ 100 PSI). Refer to STERIS drawing no. 755718-038 for complete specifications.

OPTIONS

Pure steam piping delivers steam (generated from Customer purified water source) to the chamber and its contents. All steam-to-chamber piping components are constructed of 300 series stainless steel.

RTD load probe and F_0 sterilization automatically senses the load temperature during cycle operation. A single thermal load probe is sealed through the sterilizer vessel and manually placed in the product container within the chamber prior to cycle operation.

In conjunction with the load probe option, individual cycles can be set to start the exposure phase according to chamber drain temperature or according to load temperature. F_0 set points are also available for each cycle, allowing for exposure phase termination based on the calculated F_0 value.

Visible pressure gauges (chamber and jacket pressure gauges) are mounted in the facia panel and are visible to the operator; 4-1/2" (114 mm) diameter gauges are in psig/in. Hg (chamber), or psig (jacket).

Bio-seal (double door units only) is a 1/4" steel plate which is welded to the chamber and a 1/4" thick silicone gasket that extends between the plate and a carbon steel wall frame which is welded to wall imbeds.The bioseal is provided on the non-operating end of the sterilizer to prevent the passage of airborne microorganisms from the space between the vessel body and the structural wall opening. Steam is the primary source of pressure behind the door seal. All sterilizers with bioseals have air back-up to maintain seal pressure when out of cycle or if the steam source is not available.

If the bio-seal option is selected, an increased wall opening is needed. A compressed air supply is also required as a back-up means to operate the door seals. Refer to the STERIS equipment drawing for bio-seal specifications.

Air differential seal (double door units only) is provided on the non-operating end of the sterilizer; it prevents passage of vermin from nonsterile area to the sterile area.

Eighteen-cycle capability provides an additional 12 cycles to the control system memory for a total of 18 cycles.

3" (76 mm) tri-clamp penetration permits insertion of temperature probes, such as thermocouples or resistive thermal devices (RTD), into the chamber. The assembly includes a stainless-steel threaded clamp, seal and seat to accept a maximum of 12 Customer-supplied probes.

Backflow preventor is installed on the sterilizer piping to prevent the unwanted reverse flow of water or other substances into the potable water supply.

Auto Flush for Steam Generator provides automatic flush of steam generator upon startup of sterilizer. Can be by-passed by pressing Cancel. Not required for SS generators.

PREVENTIVE MAINTENANCE

A global network of skilled service specialists can provide periodic inspections and adjustments to help assure low-cost peak performance. STERIS representatives can provide information regarding annual maintenance agreements.

NOTES

1. The sterilizer is not supplied with a vacuum breaker or backflow preventer and, where required by local codes, installation of such a device in the water line is not provided by STERIS.
2. Pipe sizes shown indicate terminal outlets only. Building service lines, not provided by STERIS, must supply the specified pressures and flow rates.
3. Disconnect switches (with OFF position lockout only, by third parties) should be installed in electric supply lines near the equipment.
4. Access to the recess area from the control end of the sterilizer is recommended.
5. Clearances shown are minimal for installing and servicing the equipment.
6. Depending on the loading equipment used, additional clearance is required:
   - If shelves are used, length of sterilizer plus 24" (610 mm) at each door.
   - If loading car and carriage will be used, twice the length of the sterilizer at each door.
7. Floor drain should be provided within the confines of the sterilizer framework.

UTILITY REQUIREMENTS

Drain

2" ODT drain terminal (floor drain capacity must handle peak water consumption)

Electric Control Domestic

120 V, 1-Phase, 60 Hz, 2 Amps

Electric Control International

230 V, 50 Hz, 1-Phase, 1.5 Amps

Electric Control, Vacuum Pump Domestic

480 V, 60 Hz, 3-Phase, 3 Amps per phase, or

208/240 V, 60 Hz, 3-Phase, 6 Amps per phase

Electric Control, Vacuum Pump International

400 V, 50 Hz, 3-Phase, 4 Amps per phase

Steam

Pressure: 50 to 80 psig (3.45 to 5.52 bar, dynamic), condensate free, and 97% to 100% vapor quality

Consumption: 185 lbs/hr (84 kg/hour)

Peak Flow: 335 lbs/hr (152 kg/hour)

Size: 1" NPT

Additional utilities are required for units with the following options:

- Liquid Air Cool (Compressed Air)
- Decontamination Cycle (Compressed Air)
- Bioseal (Optional Compressed Air Backup)
- Stainless-Steel Piping (Treated Water)
- Indirect Steam Generator (minimum 75 psig steam)

Consult Customer service for specially configured equipment drawings.

Sterilizer Feedwater Pressure: 20 to 50 psig (1.38 to 3.45 bar), dynamic, Size: 1" NPT

NOTE: Backflow prevention is not supplied on unit, and is not provided by STERIS.

Telecommunications requirements for ProConnect™ Response Center

- An active wired or wireless TCP/IP network, 10/100BaseT Ethernet connection at each piece of connected equipment, Internet access and an IP address on the facility network.
- 5 GB of available hard drive space to run the service agent. Can be installed on:
  - » Dedicated PC running Windows XP with 2.8GHz processor, 512MB of RAM

» Virtual Machine

» Server

- Local STERIS login at the PC with a username of STERIS and the password should be ProConnect (STERIS Customer Number).
- Ethernet cable to connect each piece of STERIS equipment and the dedicated PC to the facility network.

ENGINEERING DATA

Drain:	2" ODT drain terminal (floor drain capacity must handle peak water consumption)	
Electric:		
• **USA:**	Control: Vacuum Pump:	120 Volt, 1-Phase, 60 Hz, 2 Amps. 208/240 Volt, 3-Phase, 60 Hz, 6 Amps per phase, or 480 Volt, 3-Phase, 60 Hz, 3 Amps per phase.
• **UK:**	Control: Vacuum Pump:	230 Volt, 1-Phase, 50 Hz, 1.5 Amps. 400 Volt, 3-Phase, 50 Hz, 6 Amps per phase.
• **International: (Outside UK)**	Control: Vacuum Pump:	230 Volt, 1-Phase, 50 Hz, 1.5 Amps 400 Volt, 3-Phase, 50 Hz, 4 Amps per phase.
Steam:[1]	Pressure: 50 to 80 psig (3.45 to 5.52 bar, dynamic), condensate free, and 97% to 100% vapor quality Consumption: 26 x 37.5 x 36" (660 x 950 x 914 mm):Peak 190 lb/hr (86 kg/hr; Avg. 112 lb/hr (51 kg/hr) 26 x 37.5 x 48" (660 x 950 x 1219 mm):Peak 255 lb/hr (116 kg/hr; Avg. 148 lb/hr (67 kg/hr) 26 x 37.5 x 60" (660 x 950 x 1524 mm):Peak 335 lb/hr (152 kg/hr; Avg. 185 lb/hr (84 kg/hr) Peak Flow: 335 lb/hr (152 kg/hr) Size: 1" NPT	
Water:	Pressure: 20 to 50 psig (1.38 to 3.45 bar), dynamic Consumption: 130 gal/hr (495L/hr) Peak Flow: 15 gal/min (57 L/min) Size: 1" NPT	
Operating Weight:	26 x 37.5 x 36" (660 x 950 x 914 mm) 26 x 37.5 x 48" (660 x 950 x 1219 mm) 26 x 37.5 x 60" (660 x 950 x 1524 mm)	3800 lb (1720 kg) 4200 lb (1900 kg) 4700 lb (2125 kg)

[1] *75-90 PSI dynamic steam pressure is required when operated with steam-to-steam generators.*

Notes:

Operating weight includes a full load in the chamber.

Water consumption data is based on running one fully loaded prevac cycle per hour and the machine idling for the remainder of the hour.

Table 1. Recommended Feed Water Quality for Sterilizers

Condition	Nominal Conditions	Maximum Conditions
Temperature	4°-16°C (40°-60°F)	21°C (70°F)
Total Hardness as $CaCO_3$[1]	50-120 mg/L	171 mg/L
Total Dissolved Solids	100-200 mg/L	500 mg/L
Total Alkalinity as $CaCO_3$	70-120 mg/L	180 mg/L
pH	6.8-7.5	6.5-8.5
Total Silica	0.1 - 1.0 mg/L	2.5 mg/L

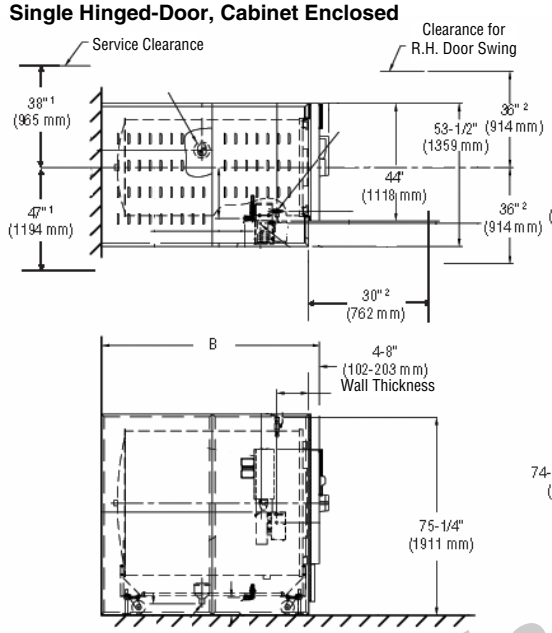
[1] *17.1 mg/L = 1.0 grain hardness*

CUSTOMER IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE LOCAL AND NATIONAL CODES AND REGULATIONS.

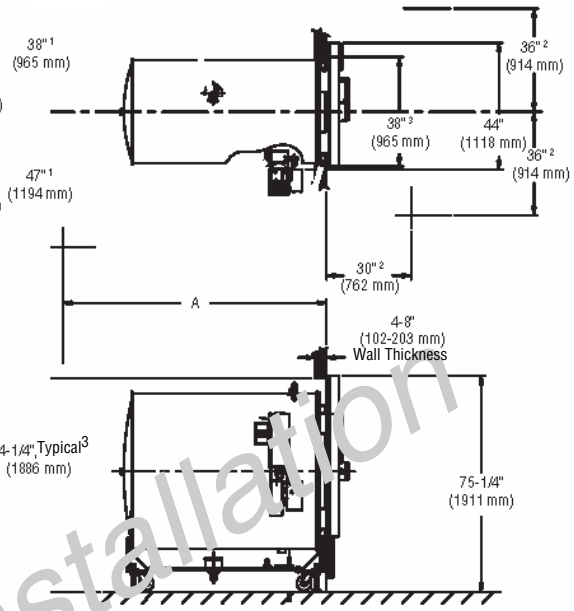
The base language of this document is ENGLISH.
Any translations must be made from the base language document.

Refer to the Following Equipment Drawings for Installation Details	
Equipment Drawing Number	**Equipment Drawing Title**
65435-775	26 X 37.5 Amsco Century Ster. Prevac Or Sfpp Single (Hinge) Door Recessed Steam Heat
65435-776	26 X 37.5 Amsco Century Ster. Prevac Or Sfpp Single (Hinge) Door Cabinet Steam Heat
65435-777	26 X 37.5 Amsco Century Ster. Prevac Or Sfpp Double (Hinge) Door Recessed One Wall Steam Heat
65435-778	26 X 37.5 Amsco Century Ster. Prevac Or Sfpp Double (Hinge) Door Recessed Two Walls Steam Heat

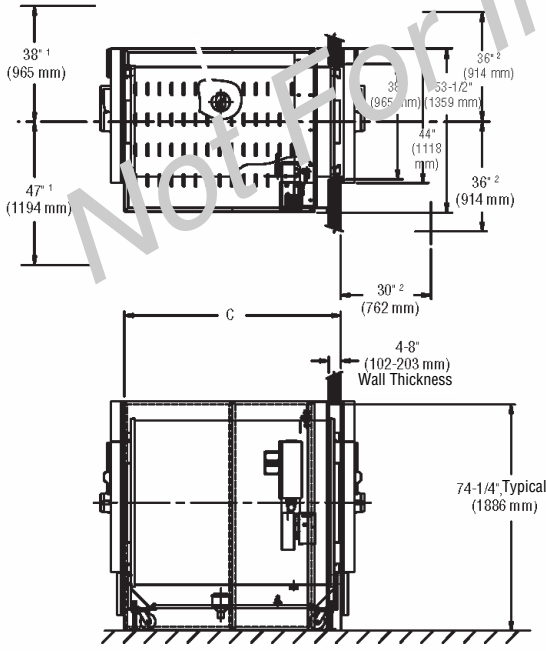
Single Hinged-Door, Cabinet Enclosed



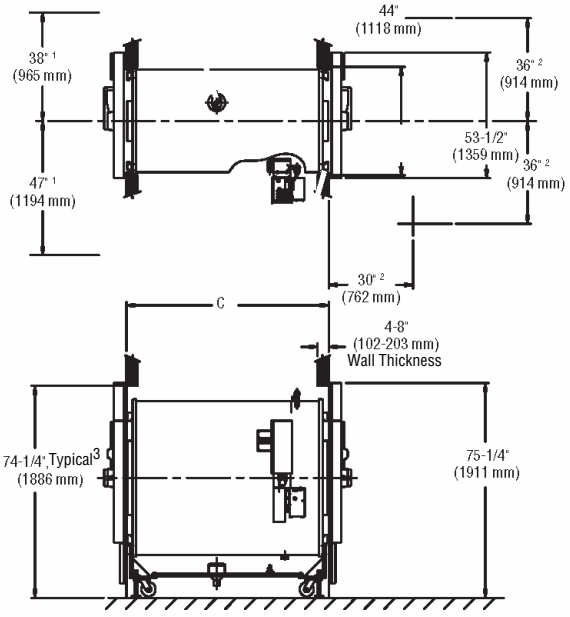
Single Hinged-Door, Recessed, One Wall



Double Hinged-Door, Recessed, One Wall



Double Hinged-Door, Recessed, Two Walls



[1] Service Clearance - new construction only. Unit may be installed in existing Eagle 3000 space without facility modification.
[2] Door Swing (left hand swing shown)
[3] Wall Opening

OVERALL INSTALLED LENGTH

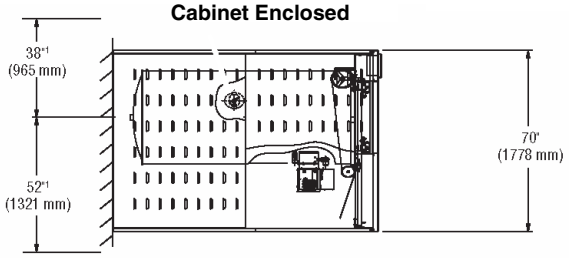
Refer To Illustrations

	Chamber Length		
	36" (914 mm)	**48" (1219 mm)**	**60" (1524 mm)**
A	69" (1753 mm)	81" (2057 mm)	93" (2362 mm)
B	58" (1473 mm)	70" (1778 mm)	82" (2082 mm)
C	48" (1219 mm)	60" (1524 mm)	72" (1829 mm)
D	59" (1499 mm)	71" (1803 mm)	83" (2108 mm)
E	71-1/2" (1816 mm)	83-1/2" (2121 mm)	95-1/2" (2425 mm)
F	53-1/4" (1352 mm)	65-1/4" (1657 mm)	77-1/4" (1962 mm)

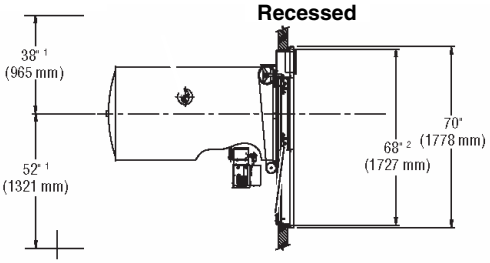
Refer to the Following Equipment Drawings for Installation Details	
Equipment Drawing Number	**Equipment Drawing Title**
65435-779	26 X 37.5 Amsco Century Ster. Prevac Or Sfpp Single (Sliding) Door Cabinet Steam Heat
65435-780	26 X 37.5 Amsco Century Ster. Prevac Or Sfpp Single (Sliding) Door Recessed Steam Heat
65435-781	26 X 37.5 Amsco Century Ster. Prevac Or Sfpp Double (Sliding) Door Recessed One Wall Steam Heat
65435-782	26 X 37.5 Amsco Century Ster. Prevac Or Sfpp Double (Sliding) Door Recessed Two Walls Steam Heat

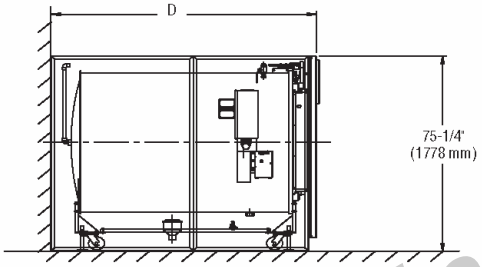
Single Horizontal-Sliding Door

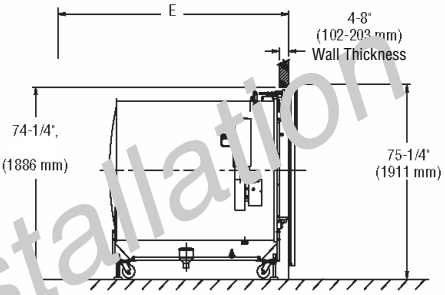
Cabinet Enclosed



Recessed

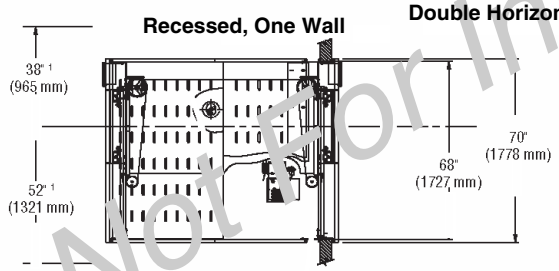




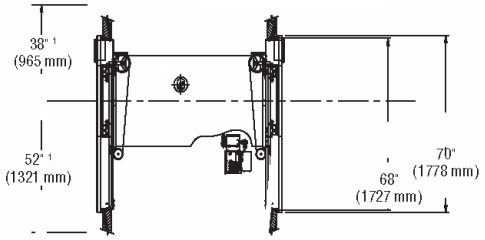


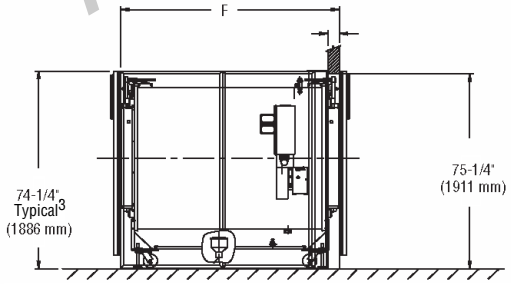
Double Horizontal-Sliding Door

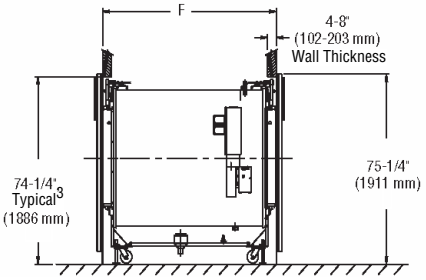
Recessed, One Wall



Recessed, Two Walls







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[2] Door Swing (left hand swing shown)

[3] Wall Opening

For further information, contact:

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