



**CONSOLIDATED
STERILIZER SYSTEMS**

STEAM STERILIZERS FOR HEALTHCARE FACILITIES

The most reliable and easy-to-use steam sterilizers in the world.



**CONSOLIDATED
STERILIZER SYSTEMS**

Simple. Reliable. Sterile.

Model	Capacity	Temp	Time	Pressure
1000	100L	121°C	30min	1.05bar
1500	150L	121°C	30min	1.05bar
2000	200L	121°C	30min	1.05bar
3000	300L	121°C	30min	1.05bar
4000	400L	121°C	30min	1.05bar

WARNING

E-STOP

ABOUT CONSOLIDATED

Consolidated Sterilizer Systems was founded in 1946 in Boston, Massachusetts. For more than 75 years we have constantly demonstrated a reputation for excellence and reliability in the field of sterilization products. Through ongoing research and development, we continue to create and integrate innovative technologies into our products that benefit our clients.



All of our steam sterilizers are manufactured in the USA. Consolidated provides comprehensive sales and service support throughout the world. Your local sales and service consultant will gladly evaluate your requirements and work with you to ensure a best-fit sterilizer with your requirements and facility in mind. Turnkey installation, simple quality build, and ongoing local service support ensures a seamless placement and robust operation over time.

OUR MISSION

The mission of Consolidated is to provide the most reliable and easy-to-use steam sterilizers while offering the best customer experience. We strive to:

- Make it simple for our clients to learn about, procure, integrate, install, operate, and service our steam sterilizers.
- Continually improve our products, services, and operations.
- Foster a culture that encourages customer focus, collaboration, open communication, health, personal growth, and learning.

Steam Sterilizers for Healthcare



3AV-HC



26AV-HC



26BV-HC

Chamber Size	20" x 20" x 38"	26" x 26" x 39"	26" x 26" x 49"
# of Trays (25lbs max)	3	9	12
Lbs per Cycle	75	225	300
Chamber Volume (L)	249	432	544



WHY CONSOLIDATED STERILIZER SYSTEMS?



PROVEN QUALITY & RELIABILITY

Over 14,000 built-to-order sterilizers installed worldwide. Each sterilizer is built to be simple and reliable ensuring a long-lasting, robust sterilizer for your facility.



INTUITIVE AND EASY TO USE CONTROLS

All sterilizers come equipped with this state-of-the-art and easy-to-use control system that allows up to 48 programmable cycles and password protection.



ECO-FRIENDLY SOLUTIONS STANDARD

The sustainable WaterEco® and EcoCalendar features are standard on every sterilizer. Save on energy costs as well as hundreds of gallons of water per day.



LOCAL SERVICE AND PARTS

Consolidated sterilizers are easily serviceable with high quality, non-proprietary parts that can be easily obtained from local suppliers, authorized service groups, the e-store, or directly through Consolidated.



LOW TOTAL COST OF OWNERSHIP

Consolidated sterilizers are manufactured to be easily serviced and maintained by in-house personnel or your local authorized service technician.



MADE IN THE USA

All Consolidated sterilizers are proudly made in the USA, ensuring availability of spare parts and local support.

DESIGNED FOR:



AMBULATORY SURGERY CENTERS (ASCs)



HOSPITALS



CLINICAL LABORATORIES



MEDICAL RESEARCH



THE CONSOLIDATED HC STERILIZER CONTROL SYSTEM

Our Consolidated healthcare steam sterilizers are an excellent choice for healthcare applications and come equipped with an advanced software and hardware-based monitoring system that allows unattended operation without sacrificing reliability or safety. Our controller platform is built from industry-standard, open-source components allowing for easy availability of parts and service.

Each sterilizer includes these user-friendly features:

- An intuitive user interface with modern, easy to view touchscreen display.
- Ability to program up to 48 sterilization cycles.
- 12 standard cycles (including 2 Immediate Use).
- Ability to select frequently used cycles as “favorites” for quick access.
- Cycle names may be customized.
- Automatic door opening at the end of the cycle cools your loads prior to removal from the sterilizer.
- Standard security features prevent inadvertent or unauthorized process changes.
- Preventative Maintenance & Service Reminders visible on touchscreen display.



User-Interface: 7" Display – “Select a Cycle” Screen



User-Interface: “Cycle Running” Screen

STERILIZER FEATURES OVERVIEW

Sterilizer Cycles: 48 Total Cycles Available	
• Pre-Vacuum	• Bowie Dick (Air Removal) Test
• Gravity	• Vacuum Leak Test
• Liquid	• Cycles Validated to AAMI Standards

Security and Process Integrity
• Multi-layered Password Security for Manager and Service Access
• Ability to Enable/Disable User Login and/or Passwords
• User Traceability Via Password Protected Operation
• Up to 50 Usernames and Passwords
• Process Alarms and Errors are Documented and Communicated Both Audibly and Visually

Standard Features
• Durable Color Touchscreen Display
• 316L Stainless Steel Chamber, Fully-Jacketed, ASME Certified
• Vertical Sliding Power Door with Foot Pedal
• Vacuum System
• Electronic Data Storage via SD/USB
• Thermal Printer
• Sterilizer Mounted On Wheels for Ease of Installation and Service. (Standard On 3AV-HC)

Green Features
• WaterEco® Water Conservation & Monitoring System
• Energy Saving EcoCalendar for Steam Supply - Turns Steam Supply Off in Non-Working Hours
• Auto Shut Down after Programmable Idle Time
• EcoJacket - Automatically Lowers Temperature of Sterilizer Jacket in Between Cycles

OPTIONS AND ACCESSORIES

Steam Generator

When house steam is not available or is inadequate, the Consolidated electric steam generator serves as the steam source. Developed to fit directly below the sterilizer chamber within the chassis and is designed to deliver a high rate of steam to the chamber without lag time between cycles. The boiler capacity is chosen to accelerate recovery between cycles. The boiler capacity is chosen to accelerate recovery between cycles, and achieve cycle set-points more quickly to yield the most productivity possible.

The Consolidated steam generator includes easily accessible front access to heating elements for quick replacement over the life of the sterilizer, as well as:

- Available in carbon steel and 316L stainless steel.
- Standard voltages 208, 240, 380, 480 in single phase or three phase.
- Whisper-quiet automatic feed water pump.
- Capacities from 30 kW to 45 kW.
- Automatic generator blowdown (standard on carbon steel generators).
- Large service opening for easy generator maintenance and inspection.

Loading Cart and Transfer Carriage

A loading cart, mounted on rollers, with two stainless steel shelves and a wheeled transfer carriage is available as an alternative to our standard shelving. The transfer carriage mates to interior guide rails to ease loading and unloading of sterilizer loads.



WPS-1200 Water Purification Systems

For sterilizers purchased with an on-board steam boiler, the purity of the feed water is a critical factor in avoiding stained loads. Consolidated's Water Purification System will remove these contaminants to help keep the load free of staining.

WPS-1200-RO for Carbon Steel Steam Generators

The WPS-1200-RO reverse osmosis water purification system includes an RO module and a reservoir tank and produces water that is suitable for use in carbon steel steam generators. Each module consists of two pre-treatment filters and a reverse osmosis filter. The pre-treatment filters remove particles larger than 5 microns, free chlorine, chloramines, and other undesirable traits. The reverse osmosis membrane filter removes greater than 90% of inorganic ions, hardness, and dissolved solids, as well as other particles.



WPS-1200-DI for Stainless Steel Steam Generators

The WPS-1200-DI deionized water system incorporates extra filtration to produce water that is suitable for use in stainless steel steam generators ($>1 \text{ M}\Omega\cdot\text{cm}$ resistivity).



SUSTAINABLE STEAM STERILIZERS

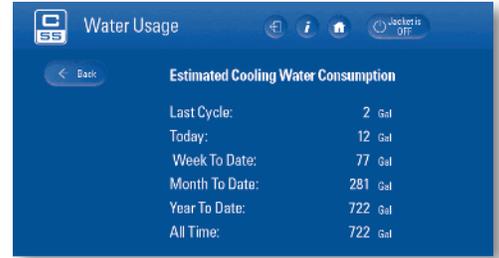
Save Water and Energy

Each CSS sterilizer includes the WaterEco® Water Conservation and Monitoring System as a standard feature.

Water Conservation & Monitoring

Most modern autoclaves use a large amount of water in order to reduce the temperature of the effluent discharge to comply with local building codes as well as to create the vacuum needed for prevacuum cycles and load drying — sometimes more than 1,500 gallons per day. Based on today’s average utility costs, a single WaterEco® autoclave can save a facility over 60,000 gallons of water per year. That’s the equivalent of \$100,000 over fifteen years!

In addition to saving water, each WaterEco® system monitors water consumption and cools effluent using a combination of air, previously cooled effluent, and a minimal amount of cold water.



User-Interface: Water Usage Screen

WaterEco® Benefits

 Water Savings	Based on today’s average utility costs, a single eco-friendly autoclave can save a facility over 60,000 gallons of water per year. That’s the equivalent of \$100,000 over a fifteen-year period!
 Space Saving Integral Design	All WaterEco® systems fit integral to the sterilizer saving valuable laboratory space.
 Water Monitoring	All WaterEco® systems communicate with the sterilizer control system to provide real-time data for cooling water consumed per cycle, day, month, and year.
 Eligible for LEED Credits	Any autoclave installed with a WaterEco® System assists architects in achieving LEED (Leadership in Energy and Environment Design) credits as set forth by the U.S. Green Building Council.
 Building Code Approved	All WaterEco® Systems are designed to meet and exceed building code requirements on effluent discharge temperature to drain.



EcoCalendar™

All sterilizers are equipped with a calendar-based automatic start-up and shut-down feature known as EcoCalendar. This feature helps minimize utility consumption and HVAC load through a software controlled, automatic steam shut-off program. Utilities can be programmed for automatic start-up and shut-down based on time of day and day of the week to ensure that the unit is hot and ready for use at the start of each work day.



MAXIMIZE UPTIME



Service & Maintenance

We understand that steam sterilizer uptime is critical for our clients. Each CSS sterilizer is designed to be:

- Reliable
- Simple in construction
- Easy to service



Our authorized local service technicians have extensive industry experience and participate in periodic factory training to ensure a continuous high level of service. **We provide our clients with free phone technical support** through our internal service support team that is second to none: accessible, educated, and driven by the highest standards of excellence. When you buy a Consolidated steam sterilizer, you are guaranteed the utmost level of support and service assistance. In addition, each sterilizer is equipped with a PM Reminder feature built into the sterilizer's control system. Rest assured, your healthcare facility can rely on our service technicians to perform periodic preventative maintenance.

Consolidated offers **SterilCARE™** **proactive maintenance programs** to keep your steam sterilizer running at top performance for many years.

YOUR STEAM STERILIZER EXPERTS



Turnkey Solutions

CSS provides a smooth installation and commissioning.

Whether you are replacing an existing sterilizer or installing a new sterilizer, Consolidated has the local expertise and know-how to ensure you have the space and utilities available for the best facility fit. Our installers can offer start-up and training as well as start-to-finish (turnkey) installation.



Steam Quality Testing (SQ)

For facilities with water quality problems or staining issues CSS offers steam quality testing. Documents the suitability of the steam delivered to the chamber, ensuring compliance with the requirements of AAMI ST79. A successful test result ensures a predictable level of process lethality.



Consolidated's sterilizers use high-quality parts that ensure maximum uptime for a Consolidated sterilizer. Our parts are non-proprietary and are readily available for a low cost of ownership and minimal use interruption for repairs. Parts can be easily obtained from local suppliers, authorized service groups, through our online e-store, or directly through Consolidated.





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