



**CONSOLIDATED
STERILIZER SYSTEMS**

ECO-FRIENDLY AUTOCLAVE SOLUTIONS

The most reliable, easy-to-use, and sustainable steam autoclaves in the world.



Water Conservation

Most modern autoclaves utilize a large amount of water to comply with local building code and reduce the temperature of the effluent discharge to the drain. Sometimes this water quenching uses as much as 1,600 gallons per day! The Consolidated WaterEco Series drastically reduces water consumption; eliminating up to 99% of water consumed by other autoclaves on the market.

Consolidated's WaterEco® Series



WaterEco®

This system is included on all Consolidated sterilizers. In addition to saving water, it monitors water consumption and cools effluent using a combination of air, previously cooled effluent and a minimal amount of cold water.



WaterEco® Plus

This system reduces water consumption through a stainless steel heat exchanger that utilizes facility chilled water supply – virtually eliminating once-through cooling water.



WaterEco® Vac Plus

This system integrates with pre-vacuum autoclaves when chilled water is readily available. The full recovery system uses chilled water to cool the vacuum water and exhaust and is the best solution to minimize water.

Chilled Water Solutions

Water Consumption Impact and Savings



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. |
| | Easy to Retrofit | Both the WaterEco® and WaterEco® Plus can be easily retrofitted onto existing sterilizers, regardless of manufacturer. |
| | 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. |
| | House Chiller System Integration | Both the WaterEco® Plus and WaterEco® Vac Plus easily integrate with house chiller systems to achieve maximum water savings on the autoclave. |
| | 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. |

*Assumes SSR-3A, 3 cycles per day, 30min at 250F with 5min dry

**See model specification sheets for specific performance

Easily Monitor Water Consumption!

Water Usage Jacket is OFF

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Estimated Cooling Water Consumption

| | |
|----------------|---------|
| Last Cycle: | 2 Gal |
| Today: | 12 Gal |
| Week To Date: | 77 Gal |
| Month To Date: | 281 Gal |
| Year To Date: | 722 Gal |
| All Time: | 722 Gal |

X1 User-Interface Display - "Water Usage" Screen



Energy Conservation

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.

Auto Idle Shut Off

Like the EcoCalendar™, Auto Idle Shut-Off helps save energy by shutting the autoclave off when not in use. It functions similarly to a “sleep-mode” for your home computer. Simply set the desired idle time and the autoclave will enter sleep-mode after the set idle time has elapsed. Press anywhere on the X1™ touchscreen to “wake up” the autoclave.



Hood Controls

This feature integrates the sterilizer with a local canopy hood to reduce unnecessary venting of conditioned air. Form C Dry Contacts signal your building automation system to power-down the hood when the door of the autoclave is closed. This allows labs to better control the heat-load and environmental conditions within the lab.

EcoJacket

EcoJacket is included on all new sterilizers and automatically lowers the temperature of the sterilizer jacket in between cycles, thereby reducing steam and water usage and heat-load to the room.



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Featuring Green Technology  for Energy Savings and Minimal Environmental Impact



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