

The Reliance[®] 400/500 Glassware Washers

Greater Flexibility for Higher Productivity



STERIS[®]



Life Sciences

High-Productivity Glassware Washing and Drying

The Reliance 400 and 500 Glassware Washers are high-productivity systems designed specifically for large-capacity, effective cleaning of laboratory glassware. They make it easy for research labs to boost productivity, minimize costs, and meet the highest level of performance.

New Improvements and Trusted Quality

Manufactured in our ISO 9001 certified production facility, the Reliance 400 and 500 washers bring you the quality that laboratories around the world have come to expect from STERIS. Now, with the added flexibility of our new Universal Shelving System™, multiple sizes of glassware can be washed simultaneously, increasing throughput and making the most of every washing cycle.

Two Capacities - The Same Performance

The Reliance 400 and 500 washers offer the same performance-enhancing features in two sizes to fit different space constraints and productivity needs.

The Reliance 400 Washer

- > Chamber capacity 26" wide x 25" high x 26" deep (660 mm x 635 mm x 660 mm)
- > Capacity for four manifold racks

The Reliance 500 Washer

- > Chamber capacity 39" wide x 25" high x 26" deep (990 mm x 635 mm x 660 mm)
- > Capacity for six manifold racks



Assured Cleaning and Drying Performance



The Principles of Effective Washing

STERIS scientific washing systems are engineered to address six principles of effective washing:

- > Time: Our microprocessor control system accurately monitors cycle time.
- > Action (Spray Pressure): Our unique two-speed pump provides constant pressure even when a second shelf is in place.
- > Chemistry: Two standard plus two optional chemical injection pumps automatically dispense different cleaning agents to address a variety of soil conditions.

- > Chemical Concentration: Accurately measured concentrations of cleaners are introduced at a programmable injection rate into the wash cycle.
- > Coverage: Rotating spray arms and individual spindles provide complete and constant spray coverage, ensuring effective delivery of solutions to all exposed surfaces—including the internal surfaces of glassware.
- > Temperature: Sump water is heated to the set point before cycle timing begins, and temperature is accurately monitored through the entire cycle.

More Performance Assurance

STERIS goes beyond the six principles to deliver performance that meets the most exacting standards.

- > Air circulation through individual spindles assures drying of internal surfaces.
- > A final rinse of non-recirculated pure water from the built-in storage tank reduces mineral deposits to a minimum.
- > Windows and interior chamber lights allow constant observation of the cleaning process.
- > An integrated printer provides cycle performance documentation.
- > STERIS' Process And Cleaner Evaluation (PACE®) program identifies chemistry and equipment requirements and designs the needed cleaning protocols.



A sensor detects the presence of the Universal Shelving System and automatically adjusts the pump speed and pressure - providing additional solution flow and pressure.

The Certified Cleaning Process



The STERIS Difference

Extensive Laboratory Safety Features

At STERIS, we engineer every washer to ensure operator safety and guard process integrity.

- > Doors are equipped with a safety latch to prevent falling and sensors to retract the doors if any obstruction is detected.
- > The microprocessor control's lockout feature prevents the cycle from starting until the door is fully closed, and stops the cycle if the door is opened.
- > The internal battery backs up all cycle memory for up to 10 years, and allows completion of a cycle after power failure and restoration.

- > Optional supervisor access codes control cycle programming to ensure process integrity.
- > Built-in service diagnostics provide system calibration and component operation verification.
- > The double-walled, insulated chamber assures minimum heat loss and reduces noise levels.
- > Lightweight accessories and loading shelves - and the optional transfer cart - minimize lifting injuries.



Lightweight sections of the Universal Shelving System can be easily removed to accommodate processing of various sized items.

Validated STERIS Cleaners

STERIS manufactures a variety of alkaline, acid, and neutral detergents formulated to meet the cleaning challenges of your research laboratory environment. These formulations have been developed to enhance the performance of STERIS Reliance Glassware Washers. We are committed to providing consistent validation and quality by manufacturing our cleaners in an ISO 9001 certified facility.

Comprehensive STERIS Service

When it comes to choosing service for your equipment, today's marketplace offers you no shortage of choices. We've established a reputation for delivering the industry's most dependable and comprehensive service. Our well-documented, custom programs will properly maintain your equipment, delivering the operational uptime and service life you count on to make the most of your investment.



Flexibility That Boosts Productivity

Making the Most of Time and Space

STERIS knows that glassware washing steals valuable time and resources from laboratory research. That's why we've designed the Reliance 400 and 500 Washers to make the most of your resources.

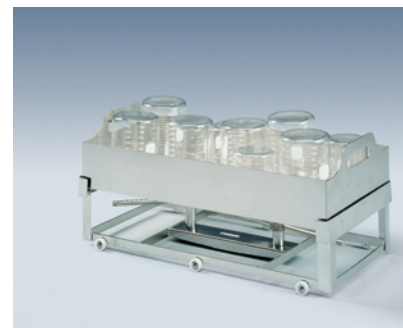
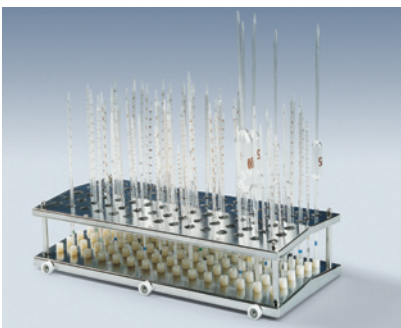
- > Our Universal Shelving System allows you to wash many different types and sizes of glassware in the same cycle, reducing the total number of loads per day.
- > Our 30-minute cycle time - including drying - provides fast turnaround of glassware.
- > The vertical sliding door saves precious laboratory floor space by eliminating the need to accommodate door swing.
- > Our non-vented system eliminates the need for a costly connection to your building's ventilation system.

More Flexibility Features

- > Microprocessor control lets you run a broad variety of cycles via 10 user-programmable cycles and three factory presets.
- > A wide range of material handling-accessories accommodates many types of glassware, including pipettes, test tubes, petri dishes, and other typical lab items.

The Universal Shelving System

By removing one or more of the Universal Shelving System's sections, you can clean a combination of small, medium, and tall items all at once.



Maximum flexibility is provided by our complete line of manifold spindle headers and accessories.

STERIS: Technological Innovations with Proven Worldwide Applications

STERIS Life Sciences is a global provider of sterilization, washing and decontamination systems, products, and services for the pharmaceutical, biotech, medical device, laboratory research, and industrial markets.

Our solutions cover all aspects of product discovery and development - across research labs, comparative medicine, and production/manufacturing processing.

At STERIS Life Sciences, we help customers achieve business-critical goals—such as streamlining operations through automation, enhancing cost-efficiencies through centralization, and improving time-to-market through faster process validation - with our comprehensive family of leading technologies.

Our commitment to furthering the science of contamination control is stronger today than ever. In fact, our product

offerings - from Amsco® Sterilizers and Finn-Aqua® Multiple-Effect Water Still to Vaporized Hydrogen Peroxide (VHP®) Biodecontamination Systems - are recognized worldwide as industry standards.

We provide a host of solutions expressly developed for particular market sectors. For example, we offer an extensive line of aqueous-based cleaning agents and microbial-control products specifically formulated to address the unique challenges of pharmaceutical manufacturing.

In addition, we provide on-site training, educational seminars, and technical support to keep employees up-to-date on regulatory compliance issues, product safety, new technologies, and protocols. STERIS support is available whenever and wherever you need it through our worldwide manufacturing and distribution network.



STERIS Corporation
5960 Heisley Road
Mentor, OH 44060-1834 ■ USA
440-354-2600 ■ 800-444-9009
www.steris.com

STERIS Offices Worldwide:

Benelux	32 2 523 2488
Canada	800 661 3937
France	33 1 55 176000
Germany	49 2233 69990
Italy	39 02 2130341
Japan	81 78 321 2271
Latin America	305 442 8202
Nordic	358 9 25851
Singapore	65 68 41 7677
Spain	34 916 585 920
Sweden	46 8 594 60 550
United Kingdom	44 1256 840400

M2255EN.2005-09, Rev. B.
© 2005 STERIS Corporation.
GPSI Printed 08/2005, 2500
All rights reserved.