

# FINN-AQUA<sup>®</sup> LIFE SCIENCES RESEARCH (LSR) STERILIZER

Design and precise engineering expertise that address the specific economic and technical challenges of the research and laboratory animal industries



STERIS<sup>®</sup>



Life Sciences

## STERIS: A Tradition of Excellence

STERIS has the experience and proven reputation as the leader in research sterilizers and laboratory animal equipment. With the Finn-Aqua LSR series of research steam sterilizers, we've used our rigorous design and precise engineering expertise to address the specific economic and technical challenges of the research and laboratory animal industries.

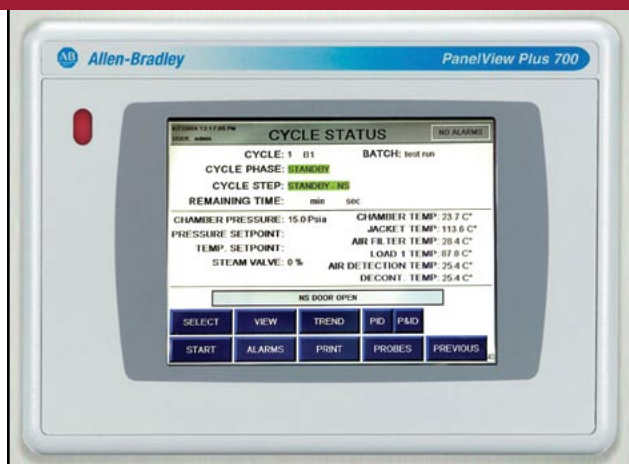
## A Full Line of LSR Sterilizers

The Finn-Aqua LSR sterilizers are available with multiple chamber sizes with a choice of various sterilization processes. These sterilizers will satisfy the most basic needs and the specialized requirements of any research or laboratory animal application.

## STERIS: An Expert Partner

A partnership with STERIS extends far beyond the delivery of high-quality equipment. Consultation, installation, documentation, service, and application support are essentials of the STERIS tradition. To help you achieve new levels of productivity and profitability from your LSR sterilizer, STERIS offers:

- > Facility design support
- > Installation supervision and start-up services
- > Cycle validation support
- > Preventative maintenance programs
- > 24/7 technical support
- > Complete documentation packages
- > On-site qualification and calibration services
- > Cycle development and process selection support



Easy-to-use operator controls



Maintenance free door gaskets

## Cycle Versatility For Multiple Applications

Each process type offers a high degree of cycle versatility, providing the flexibility of using the same sterilizer for many types of loads.

### Dry Goods and Porous Loads

- > Suitable for items such as animal cages, bedding and micro-isolators.
- > Adjustable vacuum and pressure rates, depth, and dwell time in both pre- and post-conditioning phases – for fast and efficient processing.

### Media and liquid

- > Efficient forced air removal for media and liquids using low pressure, rapid vacuum pulses.
- > Forced air removal for liquids in open containers.
- > Optional direct air cooling with sterile air overpressure to prevent liquid loss
- > Optional indirect water cooling in chamber jacket for reduced cycle times.

## Safety Above All

STERIS never compromises on matters of safety. Viewing the requirements of regulatory standards as a first step, STERIS products are designed for maximum user and process safety. The LSR line of sterilizers feature:

- > Redundant mechanical and control system interlocks that ensure worker safety and protect product load
- > A unique door sensory system that reverses when obstructed to protect against operator injury during loading and unloading
- > Ergonomic design for easy loading and unloading of heavy and/or hot materials
- > Elimination of all piping on top of sterilizer to enable easier, quicker and safer servicing

## Unsurpassed Reliability

STERIS recognizes that reliability is one of the most important requisites for any sterilizer. In the LSR line, STERIS has combined a proven design with precision engineering and durable construction to provide long lasting performance.

- > 316L stainless steel chamber construction jacketed for long life and excellent performance
- > Commercially available, reliable components for maximum uptime
- > Commercial, industrial-grade programmable logic controllers (PLC) from Allen-Bradley provide established reliability and lifetime product support
- > Two-stage vacuum pump for quieter operation and longer intervals between regular maintenance
- > Modularized tri-clamp piping and pneumatic valving



## Customized To Meet Your Needs

Considering the wide variety of research applications, the LSR line of sterilizers was designed for flexibility. Customization and function are vital to productivity and profitable performance. These sterilizers help maximize both, in installation and operation.

- > Up to 20 individually configured cycles with easy parameter selection for optimized performance
- > Optional decontamination cycle for sterilization of all chamber effluents prior to discharge to the drain
- > Optional bioseal or air differential seals available to provide a barrier between containment rooms
- > Configured with vertical sliding door (66 series) or side-sliding door design (69 series and larger)
- > Operator controls can be mounted to either the left or right of the sterilizer door for easy, convenient access or remotely mounted up to 33 feet (10 meters) away
- > All piping and controls are configured within the confines of the installation footprint eliminating the need for separate framework to conserve space

## Ready For Fast Qualification and Commissioning

STERIS offers a lifecycle approach to ongoing regulatory compliance – for speed and efficiency that can deliver significant cost savings.

### Prospective Qualification Before Delivery

- > Complete Internal Factory Acceptance Testing to simulate the IQ/OQ process

### On-site Qualification

- > Optional site acceptance and IQ/OQ performance testing

### Repeatable, Documented Evidence

- > Excellent temperature control and distribution provide repeatable performance.

## Cost Efficiency For Today's Comparative Medicine Industry

The LSR line of sterilizers are designed with cost efficiency as a priority.

- > User-friendly controls that reduce training time and the likelihood of costly operator errors.
- > Readily accessible, industry-standard components for easy maintenance and minimal downtime.
- > Designed for fast and simple installation with no subassemblies or field wiring required.

## STERIS: Technological Innovations with Proven Worldwide Applications

STERIS is the recognized expert in preventing contamination by providing superior products and services throughout the world. Our unique integrated offering of reliable capital equipment, cleaning chemistries, and services allows STERIS to support the entire process from research and discovery to manufacturing.

At STERIS, 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 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 are recognized worldwide as industry standards.

STERIS offers a wide range of innovative, high quality solutions for contamination control throughout your research and production areas.

- > Finn-Aqua® GMP Steam Sterilizers
- > Finn-Aqua® WFI Water Stills
- > Finn-Aqua® Pure Steam Generators
- > VHP® Sterilization Systems
- > (CED) Continuous Effluent Decontaminators
- > Basil® and Hamo® Washing Systems

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

In addition, we provide on-site training, educational seminars, and technical service and 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.



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