



88000 SERIES AUTOMATED WASHER STEAM STERILIZER

APPLICATION

The ARS automated washer/sterilizer (AWS) is designed for automatically loading, washing, decontaminating and sterilizing baskets of surgical instruments, utensils and glassware in a single chamber. Water, steam and detergent are utilized for cleaning and decontaminating. Saturated steam is utilized as the sterilizing agent.

FEATURES & BENEFITS

- Premium grade, industrial components provide years of reliable operation.
- Production of sterilizers to individual customer order permits economical customization and accountability of ARS factory personnel to each customer.
- Non-proprietary parts, conveniently available from ARS or from local industrial supply houses, contribute to an overall low cost of ownership.
- In-line, self-cleaning screen filter eliminates clogging of spray arms and nozzles.
- Standard, proven electromechanical controls provide years

of dependable operation and fundamental ease of use. Optional microprocessor controls are available.

- Front panel mounted recorders, digital timers, analog gauges and cycle status indicator lights are easy to read at a glance, extraordinarily easy to learn to use and provide convenient data storage.
- Controller and timers automatically maintain and reset operating parameters and do not require manipulation of valves. No reprogramming is necessary following any type or duration of power failure.
- Optional automatic loading and unloading of baskets permits high throughput of supplies.
- Automatic detergent injection and rotating spray arms permit effective cleaning in the sterilizer chamber.
- Stainless steel strapped corrugated aluminum sheet on top and sides contains 1" foil backed fiberglass insulation and protects the chamber from corrosion from steam or water contact. Uninsulated bottom allows moisture to readily drain away from chamber.

- Brass piping and fittings, including unions on key lines, in all water and steam lines ensure long life, minimize leaks and permit efficient maintenance and repair procedures.

PRINCIPLES OF OPERATION

Washing and decontamination can be defined as the mechanical removal of debris and living organisms. Washing and decontamination can be effectively achieved with hot water, detergent and significant agitation.

Sterilization can be defined as the complete destruction of all living microbial organisms. It is well established that the most dependable means of accomplishing sterilization is by exposure to saturated steam under pressure for an adequate period of time.

With AWS washer/sterilizers, the washing process begins with cold water admitted to the chamber and circulated through the rotating spray arms. After draining, the washing cycle continues with hot water partially filling the chamber and liquid detergent added automatically. The hot wash water is circulated through the rotating spray arms and then drained. A rinse is accomplished by again

partially filling the chamber with hot water which circulates through the rotating spray arms. A second rinse cycle follows which can be optionally provided as a deionized water rinse. After the wash and rinse cycle is complete, the unit automatically switches into 3 minute sterilization cycle at 270°F. Upon completion of the exposure time, a vacuum is drawn in the chamber to remove steam and vapor. Filtered air is admitted to the chamber to facilitate drying and to bring the chamber back to atmospheric pressure.

SIZES, [W x H x L; inches (cm)]

- 18 x 24 x 29
(46 x 61 x 74)
Single (1) basket configuration
- 36 x 24 x 29
(91 x 61 x 74)
Two (2) basket configuration
- 36 x 24 x 48
(91 x 61 x 122)
Four (4) basket configuration

CODES AND APPROVALS

ARS automated washer/sterilizers are designed to comply with or have been approved by the following:

- ASME
- National Plumbing Code
- Seismic Requirements per California Administrative Code
- LA Electrical Testing Laboratory

UTILITY REQUIREMENTS

- 115 v. Single Phase for controls.
- 208 v. 3-Phase or Single Phase, 220 v. 3-Phase or Single Phase, 440 v. 3-Phase for pumps and optional integral steam generator.
- 20 amp supply plus requirements for pumps and optional steam generator.
- Steam (for direct steam heating).
- Tap water, 3/4" NPT.
- Drain, 3" I.D. minimum.

WARRANTY

Two years parts and labor (see your local ARS representative for details).

SUPPORT SERVICES

ARS or its factory authorized sales/service representative can provide, arrange or coordinate a range of installation and support services for your ARS or other brand of automated washer/sterilizers. Such services include installation, preventative maintenance, parts and repair (See your ARS representative for details).

OUR NAME HAS OPENED DOORS FOR OVER 20 YEARS.

ARS Enterprises was established in 1971 to provide sterilizing and washing equipment and biomedical equipment service to hospitals, laboratories and pharmaceutical or medical device manufacturers. Our equipment and service have earned us an outstanding reputation among our customers who have come to rely on ARS.

Our philosophy is to provide dependable equipment incorporating high quality components. The ARS team is dedicated to the highest standards of workmanship. Our pride rests on your satisfaction with the products and service we provide. We believe that with ARS you can achieve many years of reliable performance and an overall low cost of ownership.

For information on ARS products or service, or for the name of the ARS representative in your area, please call us at (310) 946-3505.

We work well under pressure.



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