

MODEL SS1B+ TECHNICAL DATA SHEET

SS1B+ Unfired Steam Generator

The AERCO SS1B+ unfired steam generating package produces clean steam from fresh, potable water, using treated boiler plant steam as the heat source. A quick-torespond control system maintains accurate secondary steam pressures under the diversified load patterns of commercial humidification and sterilization applications. The unique AERCO heat exchanger design delivers dry, saturated steam while utilizing the minimum amount of floor space.

A parallel stack of helically wound coils constitute the most flexible heat exchange design available for clean steam generation. These baffle-free, flexible coils are capable of withstanding thermal shock. This provides for the ability to descale (clean) by the method of thermal shock - reducing the amount of down time required for acid cleaning. Each coil is individually replaceable, eliminating the need for entire heat exchanger replacement due to one tube failure. All clean steam surfaces are copper or copper alloy materials - the best selection for longevity in even the most aggressive of potable water supplies.

With primary steam in the tubes, this design is compatible with mid or high primary steam pressures. A footprint of less than 4 ft² and doorway size provide broad installation flexibility. Accurate pressure control, reliability, low maintenance and longevity make the AERCO SS1B+ a logical choice for commercial humidification and/or sterilization applications.



SS1B+ Features

- Accurate Pressure Control
- Compact, Space Efficient
- Standard Operating Range 2-70 PSIG
- Fully Modulating Variable Steam Input
- · Ideal for New or Retrofit
- ASME B&PV Code Sec. VIII, Div. 1 Stamped
- 90 PSIG ASME Shell Working Pressure Certified

- Single or Multiple Installation
- · Clean Steam Production from 100 to 1500 lbs/hr
- Applicable for 40 to 150 PSIG Primary Steam Supply
- Complete Factory Packaged Controls
- All Copper or Copper Alloy Wetted Surfaces
- 10-year Warranty on Complete Heat Exchanger
- 20-year Warranty on Pressure Vessel*

*Contact local representative for warranty details.

Applications

- Hospitals
- Hotels
- Apartment Buildings
- Medical Centers
- Nursing Homes

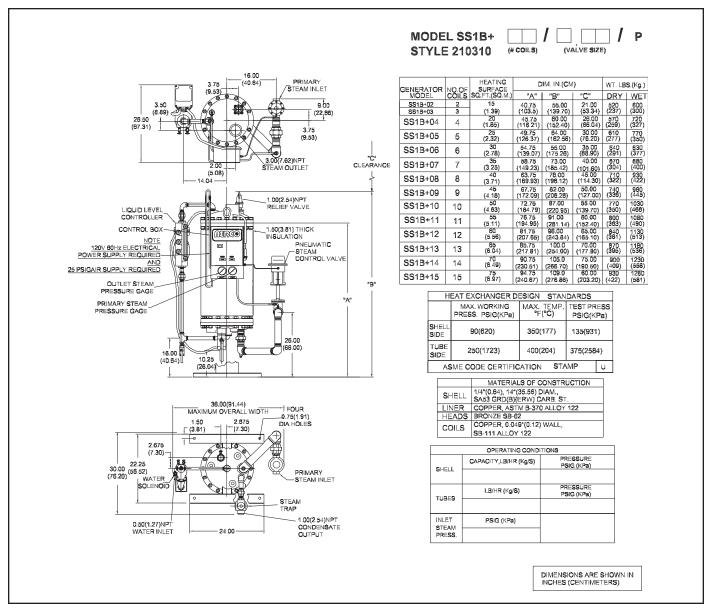
Pure Steam

- Industrial
- Pharmaceutical
- Food Processing
- Restaurants
- Photo Processing

- Art Museums
- Universities
- Bio-Medical Research Labs
- Semi-Conductor Manufacturing
- Commercial Laundries

Ultra pure steam generated from de-ionized water requires steam generator construction of all 316L stainless steel surfaces. Typical applications include pharmaceutical, autoclaves, medical sterilization, photo processing, etc. AERCO factory packaged Steam Generators are available constructed with these materials. Please contact your local representative for details.

Dimensions



SS1B+ Specifications

Max. Shell Side Velocity	200 FPM
Max. Radiation Losses @ 50 PSIG	30 Btu/H/ft ²
Electrical Requirements	120/1/60 1 Amp
Standby Amperage Draw	0.1 Amp
Over Pressure Limit "Tripped" Amerpage Draw	0.5 Amp
Max. Primary Steam Supply Pressure	150 PSIG

Max. Clean Steam Pressure	70 PSIG
Adjustable Pressure Control	2 to 100 PSIG
Adjustable Over Pressure Limit Control	2 to 150 PSIG
Air Supply Requirements	25 PSIG
Steam Outlet Connections	3.00" FNPT

Available Options

- 0.065" thick copper or copper-nickel tubing for increased corrosion resistance and longevity
- 316L Stainless Steel surfaces for generating steam from de-ionized water (product configuration may vary)
- Relay contacts for remote "Over Pressure Limit Tripped Status" indication

Specifications and dimensions are subject to change. Certified drawings are available on request.

Represented by:



Specifications subject to change. Consult website or contact AERCO. SG-1 4/06 5M New DOC 4/06

AERCO INTERNATIONAL, INC. • 159 PARIS AVENUE NORTHVALE, NJ 07647-0128 • (201) 768-2400 • FAX (201) 768-7789 www.aerco.com • E-mail: info@aerco.com