SR20 Stainless Steel Steam Boiler Series

Features
- Miniature boiler
- Maximum safety valve setting 100psi
- AI boilers are manufactured in accordance with the requirements of the A.S.M.E. Boiler and Pressure Vessel Code and A.S.M.E. CSD-1. Each boiler bears the National Board stamp “M”.
- Dry pure saturated steam, operating pressure range 0 – 85psig
- Heavy duty 304 or 316 stainless steel pressure vessel. Vessel jacket and electrical enclosure 304 stainless
- Pacified pressure vessel and heating elements
- Large selection of optional equipment

Applications
- Clean Steam Generator for Autoclaves
- Ultra Pure Steam for Medical Research, Pharmaceutical and Cosmetics
- Pure Steam Humidifier
- Steam Sterilizing
- Food Service
- Laboratories

DEIONIZED WATER: ASME (PEB 5.3) requires that; boilers constructed of austenitic stainless steel be operated on deionized water only, having a minimum specific resistivity of 1 megohm/cm.

Standard equipment of each boiler includes: Low water cutoff control with manual reset, high pressure cutoff control with manual reset, one (1) operating pressure control, gauge glass set, pressure gauge and safety valve.

### SR20 SERIES LOW & HIGH PRESSURE STEAM BOILERS

<table>
<thead>
<tr>
<th>KW</th>
<th>LB/HR</th>
<th>BHP</th>
<th>VOLTAGE*</th>
<th>PHASE</th>
<th>SHIP WT. LB</th>
<th>OP. PRESS. RANGE</th>
<th>MBTU/HR</th>
<th>Steam Outlet (NPT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>69</td>
<td>2.0</td>
<td>240</td>
<td>1</td>
<td>1</td>
<td>0-85 PSIG</td>
<td>67</td>
<td>LP 1/2</td>
</tr>
<tr>
<td>20</td>
<td>69</td>
<td>2.0</td>
<td>208/240/380/415/480/600</td>
<td>3</td>
<td>249</td>
<td>0-85 PSIG</td>
<td>67</td>
<td>LP 1/2</td>
</tr>
</tbody>
</table>

* Each boiler model requires two (2) power supplies: Primary heating power and secondary control voltage. Nominal control voltage is 120V, 50/60Hz. When boiler equipped with transformer option, only heating power supply required. When boiler is equipped with transformer option, only heating power supply required.

**Model Number Key**

Example: SRXHC20K3F = SRX20-Series boiler with pump and condensate tank, 20kW heating power, power supply 480V, 3ph, safety valve set to 100psi.
Construction

Electrical Enclosure and Shell Wrapper: 304 Stainless Steel

Shell Thermal Insulation: Fiberglass: 2” min. thick

High Pressure Feed Water Pump: Wetted parts: Choose ABS, BUNA-N, 304/316 SS Or All 316 SS

Heating Elements: Rods and Flanges 316 SS standard

Shell: Choose 304L SS or 316L SS

Boiler External Piping: Choose 304L SS or 316L SS
Overall Dimensions

SR20/SRH20 – Models

SRXHC20 – Models
1. **#OPT1016**: Automatic Flush & Drain Pressure Controlled Boiler Blowoff System

   This system is not suitable for 24/7 boiler operation.

   - Steam pressure drops below setting of blowoff-pressure control.
   - Boiler Blowoff: At the end of boiler blowoff, valve closes automatically.

2. **#OPT1001**: Timer Controlled Boiler Blowoff System

   This system is suitable for 24/7 boiler operation.

   - When boiler blowoff time reached, boiler controls turn off automatically.
   - At the end of boiler blowoff, valve closes, boiler controls turn on, water level in boiler restores and boiler resumes operation automatically.

3. **#BTANK-10**: Blowoff Tank

4. **Control Voltage Transformer.** When using this option, only main power supply required to operate boiler.

<table>
<thead>
<tr>
<th>Boiler Voltage</th>
<th>Transformer Option Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>208V</td>
<td>OPT1009 - 208RBH</td>
</tr>
<tr>
<td>240V</td>
<td>OPT1009 - 240RBH</td>
</tr>
<tr>
<td>380V</td>
<td>OPT1009 - 380 - 415RBH</td>
</tr>
<tr>
<td>415V</td>
<td>OPT1009 - 380 - 415RBHC</td>
</tr>
<tr>
<td>480V</td>
<td>OPT1009 - 480RBH</td>
</tr>
<tr>
<td>600V</td>
<td>OPT1009 - 600RBH</td>
</tr>
</tbody>
</table>

5. **#OPT1012-SS Auxiliary Low Water Cut-Off:**

6. **Timer Controlled Boiler On/Off, #OPT1017**

   Program timer to turn boiler on/off automatically.

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