Circulatic® Packaged Re-Circulating Steam Generators

SPECIFICATIONS 75 BHP

**DESIGN DETAILS**

**General Information**
- Type of Boiler: Watertube
- Model Series: 5907
- Rated Capacity: 75 BHP
- Equivalent Evaporation: 2,580 lb/hr from and at 212°F
- Thermal Output: 2,510,000 Btu/hr
- Construction Codes: ASME, Hartford, National Board
- Boiler Shell Insulation: Mineral Wool Insulation
- Approx. Shipping Weight: 5,300 lbs

**Power Requirements**
- Main Power: 230/460/575 VAC, 3 Ph, 60 Hz
- Control Power: 120 VAC, 1 Ph, 60Hz
- HP required by circulating pump: 5 HP
- HP required by blower: 5 HP

**Overall Dimensions**
- L x W x H: 104" x 78" x 90"

**Pressure psig**

<table>
<thead>
<tr>
<th>Design</th>
<th>Operating</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>13 max.</td>
</tr>
<tr>
<td>150</td>
<td>135 max.</td>
</tr>
<tr>
<td>250</td>
<td>225 max.</td>
</tr>
<tr>
<td>530</td>
<td>475 max.</td>
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</table>

**Performance Data**

**Fuel Consumption @ Rated Output**
- Gas: 3,138 scfh
- Oil (No. 2): 22.0 gal/hr

**Turndown Ratios:**
- Oil & Gas: 8 to 1

**Combustion and Ventilating Air Required:**
- Oil & Gas: 665 scfm

**Customer Connections**

<table>
<thead>
<tr>
<th>Stack Outlet</th>
<th>12” O.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steam Outlet</td>
<td>6” ASA</td>
</tr>
<tr>
<td>Main Gas Supply</td>
<td>2” NPT</td>
</tr>
<tr>
<td>Pilot Gas Supply</td>
<td>1/2” NPT</td>
</tr>
<tr>
<td>Oil Supply</td>
<td>3/4” NPT</td>
</tr>
<tr>
<td>Oil Return</td>
<td>1/2” NPT</td>
</tr>
<tr>
<td>Atomizing Air</td>
<td>3/8” NPT</td>
</tr>
<tr>
<td>Feedwater Inlet</td>
<td>1” NPT</td>
</tr>
<tr>
<td>Blowdown Outlet</td>
<td>1” NPT</td>
</tr>
<tr>
<td>Surface Blowdown Outlet</td>
<td>3/8” NPT</td>
</tr>
<tr>
<td>Safety Valve Outlet</td>
<td>2 1/2” NPT</td>
</tr>
</tbody>
</table>

**-Note: varies based on set pressure**

**Burner**
- Manufacturer: Vapor Power
- Fuel: Natural Gas, No. 2 Fuel Oil, or Combination
- Type (gas): Multiple Orifice Nozzle
- Type (oil): Air Atomized

**Fuel Specifications:**
- Oil (No. 2): 141,000 Btu/U.S. gal
- Gas: 1000 Btu/cu ft
- Main Burner: 2 psig
- Pilot Burner: 6” W.C.

**Atomizing Air Requirements:**
- Oil (No. 2): 9 scfm @ 20 psig
- Gas: None required

**Ignition Type:**
- Oil & Gas: Electric spark - interrupted gas pilot