### Circulatic® Packaged Re-Circulating Steam Generators

**SPECIFICATIONS 600 BHP**

#### DESIGN DETAILS

<table>
<thead>
<tr>
<th>General Information</th>
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<tbody>
<tr>
<td>Type of Boiler</td>
</tr>
<tr>
<td>Model Series</td>
</tr>
<tr>
<td>Rated Capacity</td>
</tr>
<tr>
<td>Equivalent Evaporation</td>
</tr>
<tr>
<td>Thermal Output</td>
</tr>
<tr>
<td>Construction Codes</td>
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</tbody>
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<thead>
<tr>
<th>Boiler Shell Insulation</th>
<th>Mineral Wool Insulation</th>
</tr>
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<tbody>
<tr>
<td>Approx. Shipping Weight</td>
<td>36,000 lbs</td>
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#### Power Requirements

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

#### Overall Dimensions

L x W x H: 180” x 119” x 144”

#### Pressure psig

<table>
<thead>
<tr>
<th>Design</th>
<th>Operating</th>
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<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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#### Performance Data

- **Fuel Consumption @ Rated Output**
  - Gas: 25,125 scfh
  - Oil (No. 2): 176.0 gal/hr

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

- **Combustion and Ventilating Air Required:**
  - Oil & Gas: 5,412 scfm

#### Customer Connections

- **Stack Outlet:** 32” O.D.
- **Steam Outlet:**
  - 15 psi: 12” ASA
  - 150, 250, 530 psi: 6” ASA
- **Main Gas Supply:** 3” NPT
- **Pilot Gas Supply:** 1/2” NPT
- **Oil Supply:** 1” NPT
- **Oil Return:** 3/4” NPT
- **Atomizing Air:** 1/2” NPT
- **Feedwater Inlet:** 1 1/2” NPT
- **Blowdown Outlet:** 1 1/2” NPT
- **Surface Blowdown Outlet:** 3/8” NPT
- **Safety Valve Outlet (2):** 2 1/2” NPT

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

#### Controls

Steam Pressure, Low Water Cutoff, Flame Failure Protection, Coil Temperature Limit.

#### 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): 23 scfm @ 30 psig
  - Gas: None required

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