Specifications

Advanced Steam Boiler Technology that is Safe, Efficient and Reliable

CLAYTON STEAM GENERATORS OFFER:

- COMPACT SIZE
  Clayton steam generators will normally fit in any available area while also reducing construction costs on new building installations.

- FUEL EFFICIENT
  High efficiency which is inherent with the clayton design translates into lower operating costs and improved overall system operation.

- RESPONSIVE
  Very rapid response to changing steam loads. Clayton steam generator will automatically modulate to match your steam load profile while maintaining system steam pressure.

- SAFE
  Our once through design eliminates the possibility of a steam or water side explosion. The Clayton steam generator is simply the safest steam boiler on the market.

- LESS WATER WASTE
  Clayton's design concentrates TDS blow down significantly which reduces wasted fuel, water and chemical costs.

- FAST START
  Full steam pressure and output in minutes from a cold start-up saves fuel and labor cost over conventional designs. Eliminates wasted fuel from idling.

- AUTOMATIC
  Operation is automatically controlled and the Clayton steam generator can be started from a single switch or remotely using an automatic start option.

- LOW WEIGHT
  The relatively light weight means that all sizes of Clayton steam generators can be easily moved and installed even in areas with limited structural support.

- RELIABLE
  Reliability of the Clayton steam generator is field proven and unsurpassed. This results in greatly reduced maintenance and attendance.

- HIGH QUALITY STEAM
  Steam Quality in excess of 99.5% dry is assured at all times. This is the highest steam quality of any competitive design. Less water and impurities further increase your energy efficiency.
### Specifications

**MODEL E204**

<table>
<thead>
<tr>
<th>Boiler Horsepower</th>
<th>Model</th>
<th>Heat Input, BTU/hr</th>
<th>Net Heat Output, BTU/hr</th>
<th>Equivalent Output (from and at 212°F feedwater and 0 PSIG steam)</th>
<th>Design Pressure (see note 1)</th>
<th>Steam Operating Pressure (determined by design pressure)</th>
<th>Oil Consumption</th>
<th>Gas Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil</td>
<td>Model E204</td>
<td>8,066,265</td>
<td>7,784,884</td>
<td>6,900 lbs/hr</td>
<td>15 - 500 psig</td>
<td>15 - 500 psig</td>
<td>57.4 gph</td>
<td>8,165 cfm</td>
</tr>
<tr>
<td>Gas</td>
<td>with Super Economizer</td>
<td>8,164,634</td>
<td>7,876,471</td>
<td>6,900 lbs/hr</td>
<td>15 - 500 psig</td>
<td>15 - 450 psig</td>
<td>55.4 gph</td>
<td>7,876 cfm</td>
</tr>
<tr>
<td></td>
<td>with Low NOx Burner</td>
<td>8,066,265</td>
<td>7,784,884</td>
<td>6,900 lbs/hr</td>
<td>15 - 500 psig</td>
<td>13 - 450 psig</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>with Super Economizer</td>
<td>8,164,634</td>
<td>7,876,471</td>
<td>6,900 lbs/hr</td>
<td>15 - 500 psig</td>
<td>13 - 450 psig</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>with Low NOx Burner</td>
<td>8,066,265</td>
<td>7,784,884</td>
<td>6,900 lbs/hr</td>
<td>15 - 500 psig</td>
<td>13 - 450 psig</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>with Super Economizer</td>
<td>8,164,634</td>
<td>7,876,471</td>
<td>6,900 lbs/hr</td>
<td>15 - 500 psig</td>
<td>13 - 450 psig</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

**Burner Controls**
- Oil-fired efficiency %: 83%
- Gas-fired efficiency %: 82%

**Electric Motors, HP**
- Blower: 10 hp, 32 scfm
- Pump: 7.5 hp, 32 scfm

**Electric FLA, based on 460 V**
- Design pressure 15-300 psig: 35 scfm
- Design pressure 301-500 psig: 35 scfm

**Gas Supply Pressure Required**
- 5 to 10 psig
- 10 to 15 psig

**Atomizing Air Required**
- For oil burner: 1 to 2 scfm at 3 to 150 psig

**Heating Surface**
- 473 square feet

**Exhaust Stack Connection, o.d.**
- 18 inches

**Approximate Overall Dimensions**
- Length: 114 inches
- Width: 93 inches
- Height: 102 inches
- Shipping Weight: 8,427 lbs
- FW Pump Weight: 1,050 lbs

**Other Information**
- Design pressures are available up to 3000 psig. Consult factory for details.
- Based on No. 2 fuel oil with a High Heat Value (HHV) of 140,600 BTU/Gal.
- Based on Natural Gas with a High Heat Value (HHV) of 1,000 BTU/Ft.³
- Oil fired units also use a separate motor driven fuel oil pump - 1/3 HP
- Continuous running. For 575 V multiply by 0.8; for 380 V multiply by 1.1; for 230 V multiply by 2.0; for 208 V multiply by 2.2.
- Atomizing air required for oil burner.
- Compressed air required for FMB.

The description and specifications shown were in effect at the time this publication was approved for printing. Clayton Industries, whose policy is one of continuous improvement, reserves the right to discontinue models, or change specifications or design, without notice.