TRIAD BOILER SYSTEMS, INC.

SERIES 300 COMBINATION BOILER

SPACE HEATING and DOMESTIC HOT WATER

Note: Dimensions subject to change without notice.
For ATM boiler, flue is 9” out the top, 6” if oil burner.
TRIAD BOILER SYSTEMS, INC.
SERIES 300 BOILER (Model 300 SH-C-DHW)

The Series 300 is a steel vertical firetube packaged boiler with a water-backed combustion chamber equipped with high-efficiency turbulators. Boilers come fully wired, and fit through a 32” doorway.

**STANDARD EQUIPMENT:**
- Forced Draft or Atmospheric Burner
- Circulating Pump – Vessel Water
- Circulating Pump – Coil Water
- Copper coil – 60’ long, 1.25” diameter
- Control Centers for SH and DHW
- Low Water Cut-Off
- Combination Pressure/Temperature Gauge
- Operating Light
- Relief Valve
- Second Safety High Limit with Manual Reset
- Vessel Pressure Rating of 125 PSI

**OPTIONAL EQUIPMENT:**
- Gas Fired (NG or Propane), Oil Fired, or Dual Fuel Burners
- UL and FM Compliance
- Sealed Combustion Air Intake
- Barometric Dampers
- LWCO with Manual or Auto Reset, Test Light, and/or Test Button

**SPECIFICATIONS:**

<table>
<thead>
<tr>
<th>Input BTU/Hr</th>
<th>Output BTU/Hr</th>
<th>Efficiency</th>
<th>GPM @ °F Rise</th>
<th>GPM @ °F Rise</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Coil Side</td>
<td>Vessel Side</td>
</tr>
<tr>
<td>210,000 ATM</td>
<td>171,990</td>
<td>82.0%</td>
<td>3.4 @ 100°F</td>
<td>17.0 @ 20°F</td>
</tr>
<tr>
<td>300,000 ATM</td>
<td>240,400</td>
<td>80.1%</td>
<td>4.8 @ 100°F</td>
<td>23.9 @ 20°F</td>
</tr>
<tr>
<td>210,000 HEP</td>
<td>182,280</td>
<td>86.8%</td>
<td>3.6 @ 100°F</td>
<td>18.1 @ 20°F</td>
</tr>
<tr>
<td>300,000 HEP</td>
<td>255,000</td>
<td>85.0%</td>
<td>5.2 @ 100°F</td>
<td>25.8 @ 20°F</td>
</tr>
<tr>
<td>375,000 HEP</td>
<td>316,000</td>
<td>84.3%</td>
<td>6.4 @ 100°F</td>
<td>25.8 @ 25°F</td>
</tr>
</tbody>
</table>

Note: Typical for Natural Gas. - Oil or LP burner data may vary.

**APPLICATIONS:**
- Space Heating and Process Water – typically 130°F - 210°F
- Domestic Hot Water – typically 120°F - 180°F

**CONNECTIONS:**
- Coil Supply & Return Openings – 1.25”
- Vessel Supply - 1.5”, Vessel Return - 1.25”

**CONTROL:**
The Series 300 can operate on its own controls, but a TRIAD microprocessor control panel is recommended for sequencing more than two boilers to minimize run-time and fuel usage.

**POWER:**
- 120V, 60Hz, Single Phase, fused for 10 (ATM burner) or 20 (Power burner) amps.
- Min / Max gas pressure, typically 5” / 14” WC.

**WEIGHT/VOLUME:**
- Shipping Weight - 750 lbs.
- Operating Weight - 1040 lbs.
- Vessel Water Volume - 35 Gallons

Factory built copper or steel mains available upon request.

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