Series PBC™

PBC-52 Features and Standard Equipment

Performance:
- 95.3 Annual Fuel Utilization Efficiency (AFUE)
- AHRI Certified
- ENERGY STAR® Qualified
- Design Certified by SCAQMD for Low NOx Operation (Natural Gas Only)
- Modulating Burner with 8.1:1 Turndown Capability
- Factory Equipped for Outdoor Reset Operation
- Dual Temperature Settings for Central Heating and Domestic Hot Water
- Suitable for Firing Natural or LP Gas (Model Based)

Construction:
- Designed, Constructed and Stamped in accordance with ASME Boiler & Pressure Vessel Code, Section IV
- Design Certified for Zero Clearance to Combustible Construction
- Maximum Allowable Working Pressure: 50 PSI
- 304L Stainless Steel Heat Exchanger
- Sealed, Negative Pressure Cabinet
- Removable Jacket Panels
- Wall Mount Only
- Leveling Legs
- Factory Equipped with Boiler Service Switch

Exhaust/Air Intake Piping:
- Suitable for Sealed Combustion Operation
- Vent Adapter for PVC, CPVC, Polypro, or Stainless Steel Pipe
- Factory Supplied Vent & Air Inlet Termination Screen
- Vent Temperature Sensor and Temperature Protection

Safety Features:
- 30 PSIG ASME Safety Relief Valve (Loose)
- Pressure/Temperature Gauge (Loose)
- Integrated Connections for Optional Low Water Cut Off
- Manual Reset High Temperature Limit
- Automatic High Water Temperature Limit

Codes:
- Design Certified to ANSI Z21.13
- CSD-1 Compliant
- California Emissions Compliant (Natural Gas Only)
- Massachusetts Plumbing Code Compliant

Control Features:
- Freeze Protection
- Ramp Delay Modulation
- Outdoor Sensor Included
- Temperature Boost Function
- Warm Weather Shut Down
- Anti-Cycling Logic
- Service Notification
- System Test for Manual Control of Firing Rate
- Fault History
- Built-in Low Water Cut Off Capable

Combustion System:
- High Quality Low NOx Burner
- External Spark Ignition

Condensate System:
- Condensate Trap Included
- Blocked Condensate Switch
- Highly Visible, Easy Access Condensate Collector

Optional Equipment:
- Low Water Cut Off 650P Auto Reset
- Kit - Series PBC™ Low Water Cut Off Manual Reset

Warranty:
- One Year Parts Warranty
- One Year Labor Warranty
- 12 Year Limited Heat Exchanger Warranty
- Available 5 & 10 Year Extended Parts & Labor Warranties
- Visit PeerlessBoilers.com for Complete Warranty Details

* Purchased by PB Heat, LLC, if Product and Installer/Service Provider are Registered with Program Administrator.
Series PBC™ HIGH EFFICIENCY COMBINATION BOILER

**Series PBC™ PBC-52 BOILER RATINGS**

<table>
<thead>
<tr>
<th>Boiler</th>
<th>Input (MBH)</th>
<th>Heating Capacity (MBH)</th>
<th>Net Ratings (MBH)</th>
<th>AFUE (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min</td>
<td>Max</td>
<td>Max</td>
<td>(DHW)</td>
</tr>
<tr>
<td>PBC-52</td>
<td>24.5</td>
<td>199</td>
<td>120</td>
<td>114.4</td>
</tr>
</tbody>
</table>

**Series PBC™ PBC-52 DIMENSIONS**

<table>
<thead>
<tr>
<th>Dimensions (Inches)</th>
<th>DHW Connections</th>
<th>Supply/ Return Connections</th>
<th>Gas Supply Connections</th>
<th>Air Intake &amp; Vent Connection</th>
<th>Relief Valve Size NPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>“A”</td>
<td>“B”</td>
<td>“C”</td>
<td>“D”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18-13/16”</td>
<td>6-1/4”</td>
<td>6-15/16”</td>
<td>6-15/16”</td>
<td>1/2”</td>
<td>3/4”</td>
</tr>
</tbody>
</table>

**Series PBC™ PBC-52 CAPACITIES**

<table>
<thead>
<tr>
<th>Gas Pressure Min/Max (Inch WC)</th>
<th>DHW Turndown</th>
<th>DHW Output (70°F ΔT)</th>
<th>Total Combined Length of Air Intake &amp; Vent (Feet)</th>
<th>Shipping Weight (Lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5 (N)</td>
<td>8.1:1</td>
<td>5.2</td>
<td>20</td>
<td>100</td>
</tr>
<tr>
<td>8.0 (LP)</td>
<td></td>
<td></td>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

**Series PBC™ PBC-52 ELECTRICAL RATINGS**

<table>
<thead>
<tr>
<th>Supply Voltage (-15%, +10%)</th>
<th>Frequency (±10 Hz)</th>
<th>Blower</th>
<th>Gas Valve</th>
<th>Int. Gen. Pumps</th>
<th>CH Pump Contacts</th>
<th>Max Total Service Current to Boiler</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 VAC</td>
<td>60 Hz</td>
<td>120</td>
<td>2</td>
<td>120</td>
<td>0.09</td>
<td>120</td>
</tr>
</tbody>
</table>

These specifications are subject to change without notice.