**Performance:**
- Full Load Thermal Efficiency 96.2%
- Design Certified by SCAQMD for Low NOx Operation
- Dual Modulating Burners with 10:1 Overall Turndown Capability
- Factory Equipped for Outdoor Reset Operation
- Dual Temperature Settings for Central Heating and Domestic Hot Water
- Dual Flame Sensing for Reliable Ignition
- Suitable for Firing Natural or LP Gas
- Modbus Capable

**Construction:**
- Designed, Constructed and Stamped in accordance with ASME Boiler & Pressure Vessel Code, Section IV
- Design Certified for Zero Clearance to Combustible Construction
- Space Saving Stackable Design
- Maximum Allowable Working Pressure: 160 PSI
- 304L Stainless Steel Heat Exchanger
- Heavy Gauge Support Structure & Cabinet
- Removable Jacket Panels
- Leveling Legs

**Exhaust/Air Intake Piping:**
- Suitable for Direct Vent Combustion Operation with Inside or Outside Air
- Stainless Steel Drain Tee w/Condensate Neutralization
- Designed for Common Venting/Air Inlet
- Vent Temperature Sensor

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

**Codes:**
- Design Certified to ANSI Z21.13
- CSD-1 Compliant
- California Emissions Compliant
- Massachusetts Plumbing Code Compliant

**Control Features:**
- Plain English Status Display
- Factory Equipped for Multiple Boiler Cascade Operation
- Advanced Burner Control Logic for Common Venting of Multiple Boilers
- Flame Signal Logging Capability
- Freeze Protection
- DHW Tank Warm Hold
- Ramp Delay Step Modulation
- Outdoor Sensor Included
- System Type Presets
- Temperature Boost Function
- Warm Weather Shut Down
- Anti Cycling Logic
- Limited DHW Priority
- DHW Heat Economy Circulation
- Service Notification
- System Test for Manual Control of Firing Rate
- Fault History
- Alarm Contacts
- Analog Input for Set Point Control
- Modbus Communications Capability

**Combustion System:**
- High Quality Low NOx Burner
- Dual Flame Sensing
- High Energy Spark Ignition

**Condensate System:**
- Built-in Condensate Trap with Neutralization
- Blocked Condensate Switch
- Highly Visible, Easy Access Condensate Collector

**Warranty:**
- One Year Parts Warranty
- One Year Labor Program*
- 10 Year Limited Heat Exchanger Warranty
- Available 5 and 10 Year Extended Parts and Labor Warranty

* Purchased by PB Heat, LLC, if Product and Installer/Service Provider are Registered with Program Administrator.
Optional Equipment:
- Domestic Water Tank Temperature Sensor
- System Sensor for Multiple Boilers
- 50 PSI Safety Relief Valve
- 100 PSI Safety Relief Valve
- 150 PSI Safety Relief Valve
- BACnet or LonWorks Gateway
- Common Vent Kit

### PEERLESS® PUREFIRE® PFC-850 BOILER RATINGS

<table>
<thead>
<tr>
<th>Boiler</th>
<th>Input (MBH)</th>
<th>Heating Capacity (MBH)</th>
<th>Net Ratings (MBH)</th>
<th>Thermal Efficiency (%)</th>
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</thead>
<tbody>
<tr>
<td>PFC-850</td>
<td>Min 85 Max 850</td>
<td>818</td>
<td>711</td>
<td>96.2</td>
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### PEERLESS® PUREFIRE® PFC-850 CAPACITIES

<table>
<thead>
<tr>
<th>Gas Pressure Min/Max (Inch WC)</th>
<th>Total Water Capacity (Gallons)</th>
<th>Water Flow Rate &amp; Pressure Drop</th>
<th>Total Combined Length of Air Intake &amp; Vent (Feet)</th>
<th>Shipping Weight (Lbs)</th>
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<tbody>
<tr>
<td>3.5 (N) 13.5 (N)</td>
<td>6.2</td>
<td>Design Temp Differential (°F)</td>
<td>Flow Rate (GPM)</td>
<td>Pressure Drop (Feet)</td>
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<tr>
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<td>20</td>
<td>81.8</td>
<td>24.94</td>
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<td>30</td>
<td>54.5</td>
<td>11.83</td>
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<td></td>
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<td>40</td>
<td>40.9</td>
<td>7.00</td>
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<tr>
<td>8.0 (LP) 13.5 (LP)</td>
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### PEERLESS® PUREFIRE® PFC-850 ELECTRICAL RATINGS

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>120 VAC</td>
<td>60 Hz</td>
<td>2.50 x 2</td>
<td>0.21 x 2</td>
<td>3.15 x 2</td>
<td>10.00 x 2</td>
<td>20.00</td>
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</tbody>
</table>

These specifications are subject to change without notice.

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