PF-300 Features and Standard Equipment

**Performance:**
- Full Load Thermal Efficiency 96.5%
- Modulating Burner with 5:1 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

**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: 160 PSI
- 304L Stainless Steel Heat Exchanger
- Sealed, Negative Pressure Cabinet
- Removable Jacket Panels
- Suitable for Floor or Wall Mounting
- Leveling Legs
- Factory Equipped with Boiler Service Switch
- 120 Volt Convenience Outlet

**Exhaust/Air Intake Piping:**
- Suitable for Sealed Combustion Operation
- CPVC Vent Adapter for PVC or CPVC Pipe
- Factory Supplied Vent & Air Inlet Terminations with Screens
- 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
- Massachusetts Code Compliant

**Control Features:**
- Plain English Status Display
- Factory Equipped for Multiple Boiler Cascade Operation
- 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

**Combustion System:**
- State of the Art Fiber 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 and Labor Warranty
- 10 Year Limited Warranty
## SERIES PEERLESS® PUREFIRE® BOILER RATINGS

<table>
<thead>
<tr>
<th>Boiler</th>
<th>Input (MBH)</th>
<th>Gross Output* (MBH)</th>
<th>Net Ratings (MBH)</th>
<th>Thermal Efficiency (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PF-300</td>
<td>60</td>
<td>290</td>
<td>252</td>
<td>96.5</td>
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</tbody>
</table>

## SERIES PEERLESS® PUREFIRE® 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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</thead>
<tbody>
<tr>
<td>4.5</td>
<td>13.5</td>
<td>2.60</td>
<td>20</td>
<td>11.32</td>
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</table>

## SERIES PEERLESS® PUREFIRE® ELECTRICAL RATINGS

<table>
<thead>
<tr>
<th>Supply Voltage (-15%, +10%)</th>
<th>Frequency (±1.2 hz)</th>
<th>Blower</th>
<th>Gas Valve</th>
<th>Pumps</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>2.58</td>
<td>120</td>
<td>0.21</td>
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</tbody>
</table>

### Optional Equipment:
- PFA-1 Interface Adapter
  - Alarm Contacts
  - Analog Input
  - Modbus Communications
- Steel Stand Convertible for Wall Mounting
- Domestic Water Tank Temperature Sensor
- System Sensor for Multiple Boiler Operation
- Boiler Circulator
- 50 PSI Safety Relief Valve
- 100 PSI Safety Relief Valve
- 150 PSI Safety Relief Valve

These specifications are subject to change without notice.