Peerless® PureFire®
PF-140 Features and Standard Equipment

Performance:
▪ 95.0 Annual Fuel Utilization Efficiency (AFUE) AHRI Certified
▪ ENERGY STAR® Qualified
▪ Design Certified by SCAQMD for Low NOx Operation
▪ Modulating Burner with 4:1 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
▪ California Emissions Compliant
▪ Massachusetts Plumbing 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:
▪ 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 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.
### PEERLESS® PUREFIRE® PF-140 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>PF-140</td>
<td>Min 35</td>
<td>Max 140</td>
<td>131</td>
<td>114</td>
</tr>
</tbody>
</table>

### PEERLESS® PUREFIRE® PF-140 DIMENSIONS

<table>
<thead>
<tr>
<th>Dimensions (Inches)</th>
<th>“A”</th>
<th>“B”</th>
<th>“C”</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>Supply Connections</td>
<td>19-3/8&quot;</td>
<td>10-1/2&quot;</td>
<td>14-1/2&quot;</td>
<td>1&quot;</td>
<td>1/2&quot;</td>
<td>3&quot;</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>Return Connections</td>
<td>19-3/8&quot;</td>
<td>10-1/2&quot;</td>
<td>14-1/2&quot;</td>
<td>1&quot;</td>
<td>1/2&quot;</td>
<td>3&quot;</td>
<td>3/4&quot;</td>
</tr>
</tbody>
</table>

### PEERLESS® PUREFIRE® PF-140 CAPACITIES

<table>
<thead>
<tr>
<th>Gas Pressure Min/Max (Inch WC)</th>
<th>Total Water Capacity (Gallons)</th>
<th>Minimum Water Flow Rate (40°F ∆T)</th>
<th>Total Combined Length of Air Intake &amp; Vent (Feet)</th>
<th>Shipping Weight (Lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Flow Rate (GPM)</td>
<td>Pressure Drop (Feet)</td>
<td></td>
</tr>
<tr>
<td>3.5 (N)</td>
<td>1.25</td>
<td>6.5</td>
<td>2.70</td>
<td>200</td>
</tr>
<tr>
<td>8.0 (LP)</td>
<td>13.5 (LP)</td>
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</tbody>
</table>

### PEERLESS® PUREFIRE® PF-140 ELECTRICAL RATINGS

<table>
<thead>
<tr>
<th>Supply Voltage (-15%, +10%)</th>
<th>Frequency (±10 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>0.71</td>
<td>120</td>
<td>0.09</td>
</tr>
</tbody>
</table>

#### Optional Equipment:
- PFA-1 Interface Adapter
  - Alarm Contacts
  - Analog Input
  - Modbus Communications
- 3" Concentric PVC Vent Termination
- Wall Mounting Bracket
- Floor Mounted Steel Stand
- Domestic Water Tank Temperature Sensor
- System Sensor for Multiple Boiler Operation
- Low Loss Header Piping Kit
- Boiler Circulator
- 50 PSI Safety Relief Valve
- 100 PSI Safety Relief Valve
- 150 PSI Safety Relief Valve
- Probe-Type Low Water Cutoff
- Expansion Tank
- High Performance Air Vent

These specifications are subject to change without notice.