### Boilers Ratings

<table>
<thead>
<tr>
<th><strong>Boiler</strong></th>
<th><strong>750-MFD</strong></th>
<th><strong>1000-MFD</strong></th>
<th><strong>1500-MFD</strong></th>
<th><strong>2000-MFD</strong></th>
<th><strong>2500-MFD</strong></th>
<th><strong>3000-MFD</strong></th>
<th><strong>3750-MFD</strong></th>
<th><strong>5000-MFD</strong></th>
<th><strong>8000-MFD</strong></th>
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<th><strong>17000-MFD</strong></th>
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<tr>
<td><strong>Efficiency</strong></td>
<td>95.00%</td>
<td>95.00%</td>
<td>95.00%</td>
<td>95.00%</td>
<td>95.00%</td>
<td>95.00%</td>
<td>95.00%</td>
<td>95.00%</td>
<td>95.00%</td>
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<tr>
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<td>2,000,000</td>
<td>2,500,000</td>
<td>3,000,000</td>
<td>3,500,000</td>
<td>4,000,000</td>
<td>5,000,000</td>
<td>7,500,000</td>
<td>15,000,000</td>
<td>17,000,000</td>
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<tr>
<td><strong>Min. Burner Output</strong></td>
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<td>1,000,000</td>
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<td>3,500,000</td>
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<td>7,500,000</td>
<td>15,000,000</td>
<td>17,000,000</td>
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<tr>
<td><strong>Max. Output</strong></td>
<td>213.8</td>
<td>230.1</td>
<td>300.1</td>
<td>380.1</td>
<td>375.7</td>
<td>470.2</td>
<td>513.1</td>
<td>546.8</td>
<td>582.6</td>
<td>687.3</td>
<td>892.1</td>
<td>958.1</td>
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<td><strong>Min. Flow</strong></td>
<td>30.0</td>
<td>33.7</td>
<td>43.7</td>
<td>55.1</td>
<td>73.7</td>
<td>97.2</td>
<td>120.0</td>
<td>143.1</td>
<td>166.0</td>
<td>225.1</td>
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<td>850,000</td>
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<td><strong>LP</strong></td>
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<td>7,500,000</td>
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<tr>
<td><strong>Min. Flow (DF)</strong></td>
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<td>80</td>
<td>90</td>
<td>100</td>
<td>110</td>
<td>120</td>
<td>130</td>
<td>140</td>
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<td>160</td>
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<td>180</td>
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<td><strong>Min. Flow (DF)</strong></td>
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<td>5.1</td>
<td>5.7</td>
<td>6.5</td>
<td>7.0</td>
<td>7.5</td>
<td>8.0</td>
<td>8.5</td>
<td>9.0</td>
<td>9.5</td>
<td>10.0</td>
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<td>1,000,000</td>
<td>1,500,000</td>
<td>2,000,000</td>
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<td>4,000,000</td>
<td>5,000,000</td>
<td>7,500,000</td>
<td>10,000,000</td>
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<tr>
<td><strong>Over (DF)</strong></td>
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<td>60</td>
<td>72</td>
<td>82</td>
<td>92</td>
<td>98</td>
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<td>110</td>
<td>116</td>
<td>122</td>
<td>128</td>
<td>134</td>
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<tr>
<td><strong>Min. Pressure</strong></td>
<td>350,000</td>
<td>500,000</td>
<td>500,000</td>
<td>500,000</td>
<td>500,000</td>
<td>500,000</td>
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<td>500,000</td>
<td>500,000</td>
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<tr>
<td><strong>Max. CFM</strong></td>
<td>60</td>
<td>90</td>
<td>120</td>
<td>150</td>
<td>180</td>
<td>210</td>
<td>240</td>
<td>270</td>
<td>300</td>
<td>330</td>
<td>360</td>
<td>390</td>
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<tr>
<td><strong>Min. CFM</strong></td>
<td>40</td>
<td>56</td>
<td>72</td>
<td>82</td>
<td>92</td>
<td>104</td>
<td>110</td>
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<td>122</td>
<td>128</td>
<td>134</td>
<td>140</td>
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<tr>
<td><strong>IDF</strong></td>
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<td>120</td>
<td>150</td>
<td>180</td>
<td>210</td>
<td>240</td>
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<td>300</td>
<td>330</td>
<td>360</td>
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<td>420</td>
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<td><strong>Max. CFM (DF)</strong></td>
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<td>2,500,000</td>
<td>2,500,000</td>
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<td>2,500,000</td>
<td>2,500,000</td>
<td>2,500,000</td>
<td>2,500,000</td>
</tr>
</tbody>
</table>

**Note 1:** Ensure flue material is suitable for Category 1 applications

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**Non-Condensing Boilers**

**THERMIFIC VELOX™ & MFD™ SERIES**

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**Contact your local Patterson-Kelley representative for the most up-to-date information and product application support.**
Increasing efficiency for a quicker return on investment

The improved P-K THERMIFIC VELOX™ & MODU-FIRE® boilers provide low operating, maintenance, and installation costs along with the highest achievable thermal efficiency level for a non-condensing gas-fired boiler, thus producing a quicker return on investment. All finned tubes are machined from solid copper tubes, providing the longest life and highest performance in the industry.

- Copper Finned Tube Heat Exchanger
- Lower fuel bills
- Ideal for retrofits in inaccessible locations
- Hybrid system design to maximize flexibility and efficiency
- 10 year guarantee

Maximize efficiency with NURO® Touch-Screen Control System

The P-K THERMIFIC VELOX™ and the P-K MODU-FIRE® come standard with the NURO® touch-screen control system with NURO® Connect. The NURO® monitors and modulates the combustion and ignition of the boiler to maintain the desired outlet temperature, maximizing boiler efficiency.

Easy to Use:
- Touch-screen interface provides simple step-by-step navigation for set-up, maintenance, custom configurations, efficiency, and more.

Easy to Set-up:
- Whether installing a single boiler or cascading, with a simple touch, select from a variety of preconfigured settings for optimal system efficiency.

Easy to Maintain:
- Software upgrades eliminate hardware replacement and costly service calls.

P-K THERMIFIC VELOX™ Boilers

The P-K THERMIFIC VELOX™ boiler's state-of-the-art vertical design utilizes a radial-fired, fan-assisted burner and heat exchanger, providing maximum efficiency and enabling operation at a CSA certified thermal efficiency of 85% as a Category I non-positive, non-condensing appliance.

FEATURES
- Compact/modular design allows multiple units to be installed in tandem
- Vertical burner/heat exchanger design
- Unique integral finned copper water tubes
- High heat transfer ratio
- Operates quietly, below OSHA standards
- CSA (AGA/CGA) certified and ASME approved

ADVANTAGES
- Compact to clear 30” doorway
- Suitable for indoor or outdoor placement
- Highest achievable thermal efficiency level for non-condensing, gas-fired boiler
- Sealed combustion design eliminates large air louvers and permits boiler installation in a negative pressure environment
- Needs only five connections to install
- Burner can be quickly and easily removed from the exchanger for cleaning or inspection
- Can replace larger boilers in a modular configuration using 2,000,000 BTU multiple units
- High heat transfer ratio and fast response to load requirements

P-K MODU-FIRE® Forced Draft Boilers

The P-K MODU-FIRE® Forced Draft boiler combines full modulation control and forced draft advances with time-tested scale resistant construction to match boiler output to actual heat demand.

FEATURES
- Big output in a small, modular configuration
- Smooth 5:1 turndown can track varying loads down to 20% of rated capacity
- Eliminates short cycling in high variable speed pumping systems
- Dynamic air density compensation
- Small diameter Category IV venting
- Easy service construction

ADVANTAGES
- Simplified, low cost installation
- Suitable for indoor or outdoor placement
- Compact to clear 30” doorway; 2500 and 3000 Models clear 36” doorway
- Clean, efficient combustion across entire firing range of the boiler
- Perfect part-load performer, especially as part of a Hybrid system
- Easy to inspect and maintain

Water Heater Options

Both the THERMIFIC VELOX™ and MODU-FIRE® are available as Domestic Hot Water Heaters
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<table>
<thead>
<tr>
<th>Model</th>
<th>HP</th>
<th>Min. Flow @ 20°F△T</th>
<th>Min. Flow @ 60°F△T</th>
<th>Max. Flow</th>
<th>Min. Flow @ 140°F△T</th>
<th>Max. Flow</th>
<th>Min. Flow @ 212°F△T</th>
<th>Max. Flow</th>
<th>Min. Flow @ 250°F△T</th>
<th>Max. Flow</th>
<th>Min. Flow @ 300°F△T</th>
<th>Max. Flow</th>
<th>Min. Flow @ 316°F△T</th>
<th>Max. Flow</th>
<th>Min. Flow @ 340°F△T</th>
<th>Max. Flow</th>
<th>Min. Flow @ 380°F△T</th>
<th>Max. Flow</th>
<th>Min. Flow @ 400°F△T</th>
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<td>109 / 2,887</td>
<td>119 / 3,125</td>
<td>119 / 3,125</td>
<td>139 / 3,575</td>
<td>139 / 3,575</td>
<td>169 / 4,375</td>
<td>169 / 4,375</td>
<td>199 / 5,125</td>
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<td>53 / 1,351</td>
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<td>109 / 2,887</td>
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<td>239 / 5,975</td>
<td>259 / 6,400</td>
<td>259 / 6,400</td>
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</tr>
</tbody>
</table>

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