**P-K MACH® Model C-2500 & C-3000**

Natural Gas, Liquid Propane, or Dual Fuel with NURO® Control

This MACH Boiler requires Category IV venting (condensing—positive pressure) or Category II venting* (condensing—negative pressure) as defined in ANSI Z223.1/NFPA 54/CSA -B.149 Latest Edition

*Category II Venting must include optional combustion air damper

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### BOILER CONNECTIONS

- Combustion Air Inlet: 12" dia stub
- Condensate Drain: 3/4" hose
- Exhaust Vent: 10"
- Liquid Propane Gas Connection: 1 1/2" NPT-F
- Natural Gas Connection: 1 1/2" NPT-F
- Wiring Junction Boxes: inside cabinet
- Pressure Relief Valve: see list for selection
- Boiler Water Return, Victaulic® clamp: 3" pipe, grooved
- Boiler Water Supply, Victaulic® clamp: 3" pipe, grooved
- Anchor Bolt Locations: (6) 9/16" dia holes

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### BOILER CONTROLS: ASME CSD-1 is standard.

- Complies with GE GAP (R) guidelines GAP-4.1.0 and GAP-4.1.3.
- Complies with FM Global 6-4 Section 1.0
- Main Gas Train with Dual Shut-Off
- Integrated Boiler Control, NURO Series
- Operating Thermostat: 42° to 195°F (5.5° to 91°C)
- High Limit Thermostat, Manual Reset: 100° to 197°F (38° to 92°C)
- High Exhaust Pressure Switch
- LWC, Probe Type, Manual Reset
- Combustion Air Proving Switch, Differential Pressure Type
- Combustion Blower, Variable Speed
  - 1200 Watt (C2500)
  - 2500 Watt (C3000)

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### A.S.M.E. Section IV Design Data

<table>
<thead>
<tr>
<th></th>
<th>C2500</th>
<th>C3000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Pressure</td>
<td>125 psig</td>
<td></td>
</tr>
<tr>
<td>Max Allowable Temperature</td>
<td>220°F</td>
<td></td>
</tr>
<tr>
<td>Max Operating Temperature</td>
<td>194°F</td>
<td></td>
</tr>
<tr>
<td>Heated Wet Surface Area</td>
<td>75.3 sq.ft.</td>
<td></td>
</tr>
<tr>
<td>Flow rate @ 20°F AT</td>
<td>238 GPM</td>
<td>262 GPM</td>
</tr>
<tr>
<td>Flow rate @ 40°F AT</td>
<td>119 GPM</td>
<td>131 GPM</td>
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</tbody>
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### MODEL SELECTION

<table>
<thead>
<tr>
<th></th>
<th>C2500</th>
<th>C3000</th>
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</thead>
<tbody>
<tr>
<td>Min Inlet Gas Pressure</td>
<td>3.0&quot; w.c.</td>
<td>7.0&quot; w.c.</td>
</tr>
<tr>
<td>Max Inlet Gas Pressure</td>
<td>14.0&quot; w.c.</td>
<td></td>
</tr>
<tr>
<td>Input, BTU/hr</td>
<td>2,500,000</td>
<td>3,000,000</td>
</tr>
<tr>
<td>Output, BTU/hr</td>
<td>2,360,000</td>
<td>2,775,000</td>
</tr>
<tr>
<td>Boiler HP</td>
<td>70.9</td>
<td>85.1</td>
</tr>
<tr>
<td>Operating Weight</td>
<td>1550 lbs.*</td>
<td>1600 lbs.*</td>
</tr>
<tr>
<td>Water Content</td>
<td>19 gallons</td>
<td></td>
</tr>
<tr>
<td>Shipping Dimensions</td>
<td>36&quot; x 84&quot; x 87&quot; (LxWxH)</td>
<td></td>
</tr>
<tr>
<td>Estimated Shipping Weight</td>
<td>1680 lbs*</td>
<td>1750 lbs*</td>
</tr>
<tr>
<td>Power Supply</td>
<td>O 120V 1ph 60Hz</td>
<td>O 208-240V 3ph 60Hz</td>
</tr>
<tr>
<td>Operating Current</td>
<td>&lt; 15 Amps</td>
<td></td>
</tr>
<tr>
<td>Recommended Minimum Circuit Capacity</td>
<td>20 Amps</td>
<td></td>
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</tbody>
</table>

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### Pressure Relief Valve/Press-Temp Gauge

- Shipped Loose for Field Installation
- 30 PSIG 1-1/2" x 2" 0-100psig/30-240°F
- 50 PSIG 1-1/4" x 1-1/4" 0-100psig/30-240°F
- 60 PSIG 1-1/4" x 1-1/4" 0-100psig/30-240°F
- 75 PSIG 1-1/4" x 1-1/4" 0-240psig/30-240°F
- 80 PSIG 1-1/4" x 1-1/4" 0-240psig/30-240°F
- 100 PSIG 1" x 1" 0-240psig/30-240°F
- 125 PSIG 1" x 1" 0-240psig/30-240°F

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### Recommended Clearance for Service Access

- Front - 30°
- Rear - 12°
- Top - 12°
- Side - 18°

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