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 the optional combustion air damper.

### BOILER CONNECTIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Combustion Air Inlet 10&quot; dia. stub</td>
</tr>
<tr>
<td>C</td>
<td>Condensate Drain 3/4&quot; hose</td>
</tr>
<tr>
<td>E</td>
<td>Exhaust Vent 10&quot;</td>
</tr>
<tr>
<td>G1</td>
<td>Propane Gas 1 1/2&quot; NPT-F</td>
</tr>
<tr>
<td>G2</td>
<td>Natural Gas 1 1/2&quot; NPT-F</td>
</tr>
<tr>
<td>J</td>
<td>Wiring Junction Boxes inside cabinet</td>
</tr>
<tr>
<td>K</td>
<td>Pressure Relief Valve see list for options</td>
</tr>
<tr>
<td>R</td>
<td>Boiler Return, Victaulic®-clamp 2 1/2&quot; pipe, grooved</td>
</tr>
<tr>
<td>S</td>
<td>Boiler Supply, Victaulic®-clamp 2 1/2&quot; pipe, grooved</td>
</tr>
<tr>
<td>X</td>
<td>Anchor Bolt Locations</td>
</tr>
</tbody>
</table>

### MODEL SELECTION

#### Boilers

- Model: C2000H

- Fuel Options:
  - Natural Gas
  - Liquid Propane

#### Boiler Supply, Victaulic® clamp

- Size: 2 1/2" pipe, grooved

#### Pressure Relief Valve

- Size: 2 1/2" pipe, grooved

#### Pressure Relief Valve/Pressure-Temperature Gauge

- Size: 2 1/2" pipe, grooved

### PRESSURE RELIEF VALVE/PRESSURE-TEMPERATURE GAUGE

- Size: 2 1/2" pipe, grooved

### BOILER CONTROLS

- ASME CSD-1 is standard
- Complies with: GE GAP (IRI) guidelines GAP.4.1.0 and GAP.4.1.3
- FM Global 6-4 Section 1.0
- Integrated Boiler Control, NURO Series
- Operating Thermostat: 42°-195°F (5.6°-91°C)
- High Limit Thermostat: 100°-195°F (38°-91°C)
- High Exhaust Back Pressure Switch
- LWCO, Probe Type, Manual Reset
- Combustion Air Proving Switch, Differential Pressure Type
- Combustion Air Inlet (2) 1 1/2" NPT-F
- Combustion Blower, Variable Speed, 1580 Watt
- Combustion Blower, Variable Speed, 1580 Watt
- Combustion Blower, Variable Speed, 1580 Watt
- Combustion Blower, Variable Speed, 1580 Watt

### A.S.M.E. SECTION IV DESIGN DATA

- Max Pressure: 125 PSIG
- Max Allowable Temperature: 220°F
- Max Setpoint: 185°F
- Heated Wet Surface Area: 50.2 sq. ft.
- Flow Rate @ 20°F/1°F: 190.2 GPM
- Flow Rate @ 40°F/31°F: 95.1 GPM

### RECOMMENDED CLEARANCE FOR SERVICE ACCESS

- Front: 30"
- Rear: 12"
- Top: 12"
- Left Side: 18"
- Right Side: 18"

### Notes:

- Victaulic is a registered trademark of Victaulic Company, Easton PA, USA
- Patterson-Kelley reserves the right to make changes at any time without notification

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C2000H 3/23/2020