### CONDENSING WALL-MOUNTED, GAS-FIRED SOLO BOILER
(CENTRAL HEATING)

<table>
<thead>
<tr>
<th>Models</th>
<th>M060S, M090S, M120S, M160S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appliance Type</td>
<td>Wall-Mounted, Gas-Fired Solo Boiler</td>
</tr>
<tr>
<td>Installation</td>
<td>Indoor</td>
</tr>
<tr>
<td>Gas Types</td>
<td>Natural Gas (or Propane with field conversion)</td>
</tr>
</tbody>
</table>
| Standard Features |  • Factory Installed Modulating Pump  
|              |  • Outdoor Reset Control System with Sensor  
|              |  • Modulating Ceramic Burner  
|              |  • Stainless Steel Water Tube Condensing Heat Exchanger  
|              |  • Direct Vent Sealed Combustion  
|              |  • Approved for Room and Closet Installations |
| Included with Purchase |  • Condensing Gas Boiler with Integrated Modulating Pump  
|              |  • Liquid Propane Field Conversion Kit  
|              |  • Wall Mounting Bracket  
|              |  • Pressure Relief Valve  
|              |  • Condensate Collector Kit  
|              |  • Outdoor Reset Sensor  
|              |  • Vent Top with Integrated 3 in. (80 mm) PP Adapters  
|              |  • 3 in. (80 mm) PP to 3" PVC Adapter (Qty 2)  
|              |  • 3 in. PVC to 2 in. PVC or 2 in. (60 mm) PP Adapter (Qty 2)  
|              |  • 3 in. X 5 in. Concentric Vent Adapter  
|              |  • NPT Adapters:  
|              |   • 1 in. (Qty 2)  
|              |   • 3/4 in. (Qty 1 for Gas Supply Connection)  

| Optional Accessories | Closely Spaced Tee/Manifold Kit, Flue Gas Temperature Sensor, Condensate Neutralizer, ScaleCutter, ScaleCutter Refill Cartridge, and Boiler Toolkit |

| Venting Options | Direct Vent (Concentric and Twin Pipe)  
|                | Room Air  
|                | Materials: Polypropylene, Stainless Steel, PVC, CPVC |

### Maximum Equivalent Vent Lengths

#### Twin Pipe and Room Air:

<table>
<thead>
<tr>
<th>Vent Sizes</th>
<th>2 in. PVC and 2 in. (60 mm) PP</th>
<th>3 in. PVC and 3 in. (80 mm) PP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiler Model</td>
<td>M060S, M090S</td>
<td>M120S, M160S</td>
</tr>
<tr>
<td>Vent Lengths</td>
<td>60 ft (18 m)</td>
<td>30 ft (9 m)</td>
</tr>
</tbody>
</table>

#### Concentric:

<table>
<thead>
<tr>
<th>Vent Sizes</th>
<th>2 in. X 4 in.</th>
<th>3 in. X 5 in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiler Model</td>
<td>M060S, M090S</td>
<td>M120S, M160S</td>
</tr>
<tr>
<td>Vent Lengths</td>
<td>60 ft (18 m)</td>
<td>30 ft (9 m)</td>
</tr>
</tbody>
</table>

45° elbow equivalent to 3 ft (1 m). 90° elbow equivalent to 6 ft (2 m).

CERTIFIED TO ANSI Z21.13 — CSA 4.9
Faster, Easier Installation

Residential:
- Heat Exchanger: 12 Years
- All Other Parts/Components: 2 Years
- Labor: 1 Year

Commercial:
- Heat Exchanger: 5 Years
- All Other Parts/Components: 2 Years
- Labor: 1 Year

- Compact & lightweight design
- Convenient mounting bracket
- NPT threads for connection points
- More flexible venting options
- Simplified parameters for commissioning and setup

CH = Central Heating
PRV = Pressure Relief Valve

Important
- If the boiler is to be installed in a system that has multiple zones, a Closely Spaced Tee/Manifold Kit is recommended to be installed.
- If the pressure drop in the loop/system is greater than the available head pressure from the boiler circulator, a Closely Spaced Tee/Manifold Kit must be used.

Pressure drop curve applies to all M-Series Condensing Solo Boilers (M060S, M090S, M120S and M160S).

CH = Central Heating
PRV = Pressure Relief Valve

Rinnai America Corporation • 103 International Drive, Peachtree City, GA 30269 • 1-800-621-9419 • rinnai.us
©2018 Rinnai America Corporation. Rinnai America Corporation continually updates materials, and as such, content is subject to change without notice. Local, state, provincial, federal and national fuel gas codes must be adhered to prior to and upon installation.