Q90-200 Series II
90% AFUE Gas Fired Condensing Hot Water Boiler

- High Efficiency Cast Aluminum Monoblock Heat Exchanger
- Simple Controls
  - Hi-Limit Control
  - Boiler Reset Control economically adjusts boiler water temperature based on thermostat activity
  - Automatic Reset Low Water Cut Off
  - Diagnostic Indicator Lights
- Integrated Microprocessor Control
- Sealed Combustion, Direct Vent Forced Draft System
- Completely installed and wired safety control system includes: Stainless Steel Pre-Mix Gas Burner, Automatic Gas Valve, Hot Surface Igniter, Forced Draft Blower and Air Vent.
- Utilizes Safe, Economical CPVC and PVC Vent Pipe
- Integral Combustible Floor Plate
- Casting Temperature Safety Switch & Air Flow Pressure Switches
- Limited 15 Year Warranty
### Dunkirk Q90-200 Series II Natural or Propane Gas-Fired Condensing Hot Water Boiler

#### Dimensons/Weights

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions/Weights</th>
<th>Combustible Materials (Required)</th>
<th>Service</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Top</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>1&quot; (2.54 cm)</td>
<td>8&quot; (20.3 cm)</td>
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<tr>
<td></td>
<td></td>
<td>Left Side</td>
<td>8&quot; (20.3 cm)</td>
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<tr>
<td></td>
<td></td>
<td>Right Side</td>
<td>1&quot; (2.54 cm)</td>
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<tr>
<td></td>
<td></td>
<td>Base</td>
<td>1&quot; (2.54 cm)</td>
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<tr>
<td></td>
<td></td>
<td>Front</td>
<td>0&quot; (0 cm)</td>
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<tr>
<td></td>
<td></td>
<td>Back</td>
<td>24&quot; (61.0 cm)</td>
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<tr>
<td></td>
<td></td>
<td>Combustion Air/Vent Piping</td>
<td>0&quot; (0 cm)</td>
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<tr>
<td></td>
<td></td>
<td>Hot Water Piping</td>
<td>1&quot; (2.54 cm)</td>
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</tbody>
</table>

#### General Information

**Clearances**
- (4) Required distances measured from boiler.
- (5) Service, proper operation clearance recommendation. Note: May be installed on combustible flooring (No Carpets).

**Combustion Air & Vent Pipe Equivalent Length**
- Min. & Max. Vent Lengths - refer to the Installation Manual based on Natural or Propane Gas and Altitude.
- Vent Pipe - First 5’ (1.6 m) is Schedule 80 2” CPVC (provided), then Schedule 40 2” or 3” PVC.
- Air Intake - Schedule 40 3” PVC

**Notes:**
- 1 - 90° Elbow = 5 Ft. (1.6 m), 1 - 45° Elbow = 3.5 Ft. (1.1 m), 1 - 2” x 3” Adapter = 0 Ft. (0 m), Concentric Vent Kit = 5 Ft. (1.6 m) equivalent length.

**Connections**
- Return/Supply Water
- Gas In
- Condensate Drain
- 125/150/175/200 - 1 1/4” NPT, 1/2” NPT, 1/2” PVC
- Electrical: 120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)

**Water Content**
- 12/5/150/175/200 - 2.6 Gallons

**Standard Equipment**
- Boiler Control Module: Integrated Microprocessor Control, Hi-Limit Control, Boiler Reset Control, Automatic Reset LWCO, Diagnostic Indicator Lights.
- Heat Exchanger: Cast Aluminum Monoblock.
- Combustion: Completely installed and wired safety control system with Stainless Steel Pre-Mix Gas Burner, Automatic Gas Valve, Hot Surface Igniter, Forced Draft Blower, Air Vent.
- Electrical: Transformer, Service Switch & Outlet.
- Other: Assembled boiler with pre-painted steel jacket, Combination Temperature/Pressure Gauge, 30 psi ASME Relief Valve, Casting Temperature Safety Switch, Air Flow Pressure Switches, Boiler Drain.

**Model** | **Ship Wgt.**  | **Options** | **Certifications** |
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<tbody>
<tr>
<td>Q90-125</td>
<td>284 lbs. (128.8 kg.)</td>
<td>Taco or Grundfos Circulator</td>
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<tr>
<td>Q90-150</td>
<td>284 lbs. (128.8 kg.)</td>
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<tr>
<td>Q90-175</td>
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<tr>
<td>Q90-200</td>
<td>284 lbs. (128.8 kg.)</td>
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All ratings and specifications subject to change. PN 240005047 Rev. 6/12