

# Q90-100 Series IV

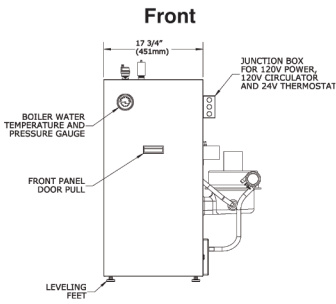
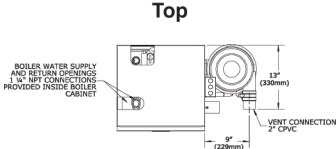
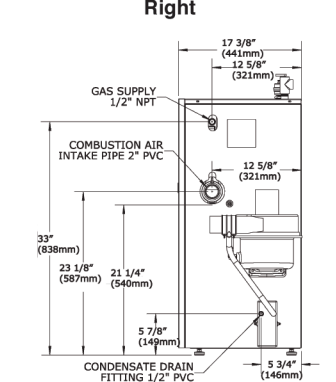






## ► 90% AFUE

### Gas-Fired Condensing Hot Water Boiler

- High Efficiency Cast Aluminum Heat Exchanger with low pressure drop
- Hot Surface Ignition (HSI) Boiler Control
- Hydrolevel Combination High Limit and Low Water Cut Off Control with boiler water temperature reset feature
- Small compact design is ideal for low clearance/limited space installations
- Stainless Steel Premix Burner for corrosion resistance
- Sealed Combustion - now approved for Polypropylene venting
- Induced Draft Blower with adjustable exhaust (front, right side or rear)
- Easy to Install & Service:
  - Choice of multiple supply and return locations (top, side or combination)
  - Leveling legs
  - Junction Box provided
  - Removable control panel for quick access
  - Low profile condensate trap provides easy plumbing of condensate drain lines
- Limited 15 Year Warranty



# Dunkirk Q90-100 IV Natural or Propane Gas-Fired Condensing Boiler

Dimensions/Weights		Model	Boiler Input Rate (MBH) <sup>(1)</sup>	Heating Capacity (MBH) <sup>(1)(2)</sup>	Net AHRI Rating, Water (MBH) <sup>(1)(3)</sup>	AFUE % <sup>(2)</sup>	
		Q90-050	50	45	39	90.0%	
		Q90-075	75	68	59	90.0%	
		Q90-100	100	90	78	90.0%	
<p>(1) 1000 Btu/hr (British Thermal Units Per Hour)</p> <p>(2) Heating Capacity and AFUE (Annual Fuel Utilization Efficiency) are based on DOE (Department of Energy) test procedures.</p> <p>(3) Net AHRI Ratings based on piping and pickup allowance of 1.15. Contact Technical Support before selecting boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.</p>							
<p><b>General Information</b> (See Installation, Operation and Maintenance Manual for complete instructions)</p>							
		<p><b>Clearances</b> (4) Required distances measured from boiler. (5) Service, proper operation clearance recommendation.</p>	<b>Combustible Materials (Required) <sup>(4)</sup></b>		<b>Service <sup>(5)</sup></b>		
			Top	1" (26 mm)		8" (204 mm)	
			Left Side	1" (26 mm)		N/A	
			Right Side	11" (280 mm)		N/A	
			Base	1" (26 mm)		N/A	
			Front	1" (26 mm)		24" (610 mm)	
			Back	1" (26 mm)		N/A	
Combustion Air/Vent Piping	0" (0 mm)		N/A				
		<p><b>Combustion Air &amp; Vent Pipe Equivalent Length (Schedule 40 PVC)</b></p>	<b>2" Pipe 050/075</b>	<b>2" Pipe 100</b>	<b>3" Pipe 050/075</b>	<b>3" Pipe 100</b>	
			Min. Length	2 Ft. (0.61 m)	2 Ft. (0.61 m)	20 Ft. (6.09 m)	15 Ft. (4.57 m)
			Max. Length	26 Ft. (7.92 m)	21 Ft. (6.40 m)	112 Ft. (34.14 m)	92 Ft. (28.04 m)
<p>Note: Refer to IOM and vent pipe manufacturer's instructions for equivalent vent lengths and alternate venting materials.</p>							
<b>Connections</b>		Return/Supply Water	Gas In	Condensate Drain			
<b>050/075/100</b>		1-1/4" NPT	1/2" NPT	1/2" NPT			
<b>Electrical</b>		120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)					
<b>Water Content</b>		050/075/100 - 2.6 Gallons					
<b>Standard Equipment</b>		<ul style="list-style-type: none"> <li>- Boiler Control Module: HSI Integrated Boiler Control</li> <li>- Combination Hydrolevel High Limit and LWCO with boiler water temperature reset feature</li> <li>- Heat Exchanger: Cast Aluminum Heat Exchanger</li> <li>- Combustion: Stainless Steel Premix Burner</li> <li>- Induced Draft Blower with adjustable exhaust (front, right side or rear), Inducer Motor Assembly, includes 5' schedule 80 2" CPVC and CPVC Tee</li> <li>- Electrical: Junction Box, Transformer and Wiring Harness</li> <li>- Textured painted steel jacket</li> <li>- Other: Temperature/Pressure Gauge, 30 PSI Safety Relief Valve, Pressure Switch(es), Low Profile Condensate Trap, Air Vent and Leveling Legs</li> </ul>					
<b>Options</b>		Natural Gas or Propane					
<b>Model</b>	<b>Ship Wgt.</b>	<p><b>Certifications</b></p>      					
Q90-050	220 lbs. (100 kg)						
Q90-075	220 lbs. (100 kg)						
Q90-100	220 lbs. (100 kg)						

All ratings and specifications subject to change.

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