

# Dunkirk® | Excelsior

Innovative. Efficient. Dependable. Dunkirk.

## Excelsior EXB

Up to 86.5% AFUE Oil Fired High Efficiency 3 Pass Hot Water Boiler

- Advanced High Efficiency 3-Pass Heat Exchanger Design
  - Multiple firing rates
- High Limit Control with:
  - LED display
  - Easy to program dial settings
  - Boiler Water Temperature Reset
  - Low Water Cut Off functionality
- Compact Footprint
- Burners and Venting Options (Burner Cover Standard)
- Easy to Service
  - Flexible oil line combined with easy access heat exchanger with dual hinge swing door (right or left mount option)
  - Wide flue-ways for easy cleaning
  - Site glass for flame observation
  - Removable 1/4" test port for draft overfire reading
- Limited Lifetime Warranty



# Dunkirk Excelsior Oil-Fired High Efficiency 3-Pass Hot Water Boiler

Dimensions/Weights			Model	No. of Sec.	Boiler Input Rate (MBH) <sup>(1)</sup>	Heating Capacity (MBH) <sup>(1) (2)</sup>	Net AHRI Rating, Water (MBH) <sup>(1) (3)</sup>	Chimney Size	Boiler Flue	Firing Rate GPH <sup>(4)</sup>	AFUE % <sup>(2)</sup>															
<p>FRONT</p>			EXB4075	4	105	91	79	8" x 8" x 15'	5" (13 cm)	0.75	86.0															
			EXB4095	4	133	114	99	8" x 8" x 15'	5" (13 cm)	0.95	85.0															
			EXB4110	4	154	132	115	8" x 8" x 15'	5" (13 cm)	1.10	84.0															
			EXB5100	5	140	122	106	8" x 8" x 15'	5" (13 cm)	1.00	86.5															
			EXB5115	5	161	139	121	8" x 8" x 15'	5" (13 cm)	1.15	85.0															
			EXB5135	5	189	161	140	8" x 8" x 15'	5" (13 cm)	1.35	84.0															
			EXB6130	6	182	159	138	8" x 8" x 15'	5" (13 cm)	1.30	86.5															
			EXB6145	6	203	176	153	8" x 8" x 15'	5" (13 cm)	1.45	85.0															
			EXB6165	6	231	198	172	8" x 8" x 15'	5" (13 cm)	1.65	84.0															
			EXB7165	7	231	201	175	8" x 8" x 15'	6" (15 cm)	1.65	86.0															
			EXB7180	7	252	217	189	8" x 8" x 15'	6" (15 cm)	1.80	85.0															
			EXB7190	7	266	228	198	8" x 8" x 20'	6" (15 cm)	1.90	84.0															
			<p>(1) 1000 Btu/hr (British Thermal Units Per Hour)</p> <p>(2) Heating Capacity and AFUE based on 13.1% CO<sub>2</sub> (13.5% CO<sub>2</sub> at 0.95 GPH and 1.10 GPH), -0.02" w.c. draft in breech, and # 1 smoke or less. Testing is done in accordance with U.S. DOE (Department of Energy) test procedure.</p> <p>(3) Net AHRI ratings shown are based on piping and pickup factor of 15% in accordance with AHRI Standard as published by Hydronics Institute. 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>(4) Gallons per hour oil at 140,000 BTU per gallon.</p>																							
<p><b>General Information</b> (See Installation, Operation and Maintenance Manual for complete instructions)</p>																										
<p>SIDE</p>			<p><b>Clearances</b> (6) Required distances measured from boiler jacket or flue. (7) Accessibility, Cleaning &amp; Servicing recommendation.</p>		<p><b>Combustible Materials (Required) <sup>(6)</sup></b></p>		<p><b>Accessibility, Cleaning, &amp; Servicing <sup>(7)</sup></b></p>																			
					Top		12" (32 cm)		24" (61 cm)																	
					Right Side		2" (5 cm)		24" (61 cm)																	
					Left Side		2" (5 cm)		24" (61 cm)																	
					Floor		Combustible		No Requirement																	
					Front		17" (43 cm)		24" (61 cm)																	
					Back		See Flue		18" (46 cm)																	
Flue		9" (23 cm)		9" (23 cm)																						
<p><b>Connections</b></p>			Return/Supply Water 1-1/4" NPT																							
<p><b>Electrical</b></p>			120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)																							
<p><b>Water Content</b></p>			EXB4 - 3.6 Gallons, EXB5 - 4.3 Gallons, EXB6 - 5.1 Gallons, EXB7 - 5.9 Gallons																							
<p><b>Standard Equipment</b></p>			<p><b>Boiler Control Module:</b> Hydrolevel Fuel Smart HydroStat Control - combination Low Water Cut Off with boiler temperature reset and circulator control.  <b>User Display Interface:</b> Digital display with easy to set dial-type limit settings.  <b>Heat Exchanger:</b> High efficiency, cast iron, 3-pass design with reversible swing door and target wall. Efficiency baffles/liner by model.  <b>Combustion:</b> Oil burner with protective cover, flexible oil line.  <b>Electrical:</b> Wiring harness with Molex connectors. Burner electrical disconnect.  <b>Other:</b> Temperature/pressure gauge, 3/4" ASME relief valve, drain valve, textured painted steel jacket.</p>																							
<p><b>Options</b></p>			Beckett or Riello Burner, Manual Reset High Limit with plug-in Molex connector, and Direct Vent.																							
<p><b>Certifications</b></p>																										
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All ratings and specifications subject to change.

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