

# Oil-Fired Hot Water Boiler

- Up to 86.5% AFUE
- Dependable Cast Iron Heat Exchanger with Cast Iron Push Nipples
  - The sections and push nipples expand at the same rate when heated. By using similar materials instead of less expensive gaskets or steel push nipples, the boiler maintains a water tight seal.
- HydroLevel 3250 Operating Control
  - Digital Temperature Display and Diagnostics
  - Adjusts Water Temp. based on demand
  - Built-in Low Water Cut Off (LWCO)
- Optional Tankless Domestic Water Heater Coil

20 Year Limited Heat Exchanger Warranty

Innovative American Manufacturing

Select models meet ENERGY STAR® requirements



# Dunkirk EW Series Oil-Fired Hot Water Boiler

Dimensions/Weights	Model	No. of Sec.	Input		Heating Capacity (MBH) <sup>(1) (2)</sup>	Net AHRI Rating, Water (MBH) <sup>(1) (5)</sup>	Minimum Chimney Size/ Height	Tankless Coil GPM's	AFUE % <sup>(2)</sup>																							
			G.P.H. <sup>(3)</sup>	MBH <sup>(1)</sup>																												
	3EW.65	3	0.65	91	80	70	8" x 8" x 15'	2.90	86.3%																							
	3EW.75	3	0.75	105	92	80	8" x 8" x 15'	3.00	85.2%																							
	3EW.100	3	1.00	140	120	104	8" x 8" x 15'	3.25	84.0%																							
	4EW.90	4	0.90	126	111	97	8" x 8" x 15'	3.15	86.0%																							
	4EW1.25	4	1.25	175	151	131	8" x 8" x 15'	3.50	85.0%																							
	4EW1.50	4	1.50	210	179	156	8" x 8" x 15'	3.75	84.0%																							
	*5EW1.20	5	1.20	168	147	128	8" x 8" x 15'	3.45	86.5%																							
	5EW1.75	5	1.75	245	210	183	8" x 8" x 15'	4.00	84.3%																							
	*Per ENERGY STAR® specifications, AFUE is rounded to the nearest whole percentage point. As such, this product qualifies for ENERGY STAR®.																															
(1) Mbh = 1,000 BTU per hour [BTU = British Thermal Unit]																																
(2) Heating Capacity based on 13% CO <sub>2</sub> with a 0.02" w.c. draft over fire, and a #1 smoke or less. Testing was done in accordance with the D.O.E. (Department of Energy) test procedure.																																
(3) G.P.H. = Gallons per hour oil at 140,000 BTU per gallon																																
(4) A.F.U.E. = Annual Fuel Utilization Efficiency based upon D.O.E. test procedure.																																
(5) Net AHRI Water Ratings based on piping and pickup allowance of 1.15. Consult manufacturer before selecting boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.																																
<b>General Information</b> (See Installation, Operation and Maintenance Manual for complete instructions)																																
<b>Clearances</b> (6) Required distances measured from boiler. (7) Service, proper operation clearance recommendation.	Top Left Side Right Side Base Front Back	<b>Combustible Materials (Required) <sup>(6)</sup></b> 6" (15.2 cm) 6" (15.2 cm) 24" (61 cm) Non Combustible 24" (61 cm) 6" (15.2 cm)	<b>Servicing <sup>(7)</sup></b> 24" (61 cm) No Requirement No Requirement No Requirement No Requirement No Requirement	<b>Flue to Combustible Clearance</b> 9" (22.9 cm)																												
					<b>Connections</b>		Return/Supply Water 1-1/4" NPT																									
					<b>Electrical</b>		120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)																									
					<b>Water Content</b>		3EW - 9.6 Gallons, 4EW - 11.6 Gallons, 5EW - 13.7 Gallons																									
					<b>Standard Equipment</b>		- Boiler Control Module: Hydrolevel Fuel Smart Hydrostat Control - combination Low Water Cut Off with boiler temperature reset and circulator control. - Heat Exchanger: Cast Iron Sections with Cast Iron Push Nipples and Swing Door. - Combustion: Completely installed and wired Beckett AFG Series Oil Burner (3 & 4 Section F Head; 5 Section MD Head) equipped with Nozzle, Primary Control, CAD Cell, PSC Motor, Interrupted Duty Ignition and Clean Cut Pump; Flue Brush; Swing Fire Door with Insulation (Vacuum Formed Ceramic Fiber), Target Wall (Vacuum Formed Refractory Ceramic Fiber); Dura Blanket Insulation Chamber, Chamber, and Barometric Draft Control 6". - Other: Assembled Cast Iron Boiler with Insulated Jacket, Combination Temperature/Pressure Gauge, Circulator Pump wired with 5' harness for supply or return mounting in the field, 3/4" Boiler Drain Valve, 30 psi ASME Relief Valve, extra Boiler Tap for Expansion Tank or Air Elimination.																									
					<b>Options</b>		Beckett, Carlin or Riello Burner.																									
					<b>Certifications</b>		LEARN MORE AT energystar.gov  H Maximum Allowable Working Pressure 50 psi. www.ahridirectory.org																									
<table border="1"> <thead> <tr> <th rowspan="2">Models</th> <th colspan="3">Dimensions</th> <th rowspan="2">Wgt. (lbs.)</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>3EW</td> <td>14-1/2"</td> <td>6"</td> <td>8"</td> <td>470</td> </tr> <tr> <td>4EW</td> <td>17-3/4"</td> <td>6"</td> <td>9-5/8"</td> <td>545</td> </tr> <tr> <td>5EW</td> <td>21"</td> <td>6"</td> <td>11-1/2"</td> <td>630</td> </tr> </tbody> </table>	Models	Dimensions			Wgt. (lbs.)	A	B	C	3EW	14-1/2"	6"	8"	470	4EW	17-3/4"	6"	9-5/8"	545	5EW	21"	6"	11-1/2"	630									
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All ratings and specifications subject to change.

PN 240009785 Rev. 1/17

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