

Innovative. Efficient. Dependable. Dunkirk.

Empire Water II

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

- Available in 8 sizes from 91 to 245 Mbh.
- 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 the boiler maintains a water tight seal over time.
- Honeywell 2012 Compliant High Limit and Circulator Relay Control.
 - Digital Temperature Display and Diagnostics.
- Less Coil: Control monitors water temperature and delays the burner starting until and residual heat has been transferred. Thermal purge logic measures rate of temperature change inside the boiler and delays burner firing accordingly. This maximizes efficiency by turning on the burner only when needed.
- With Coil: Low Limit Control seeks maximum temperature to satisfy domestic hot water call bypassing thermal purge logic.
- Atmospheric Chimney Vent Boiler.
- Optional Tankless Heater Coil.
- Textured paint Jacket.
- 20 Year Non-Prorated Warranty (Residential Applications).







Dunkirk EW II Series II Oil-Fired Hot Water Boiler

Dimensions/Weight		No. of Sec.	Input		Heating	Net AHRI	Minimum		
	ts Model		G.P.H. ⁽³⁾	MBH ⁽¹⁾	Capacity (MBH) ^{(1) (2)}	Rating, Water (MBH) (1) (5)	Chimney Size/Height	AFUE %	
TON SOME CONTROL LIGHT CONTROL	*3EW.65	3	0.65	91	80	70	8" x 8" x 15'	86.3%	
	*3EW.75	3	0.75	105	92	80	8" x 8" x 15'	85.2%	
	3EW.100	3	1.00	140	120	104	8" x 8" x 15'	84.0%	
	*4EW.90	4	0.90	126	111	97	8" x 8" x 15'	86.0%	
	*4EW1.25	4	1.25	175	151	131	8" x 8" x 15'	85.0%	
	4EW1.50	4	1.50	210	179	156	8" x 8" x 15'	84.0%	
	*5EW1.20	5	1.20	168	147	128	8" x 8" x 15'	86.5%	
Trakin Coll	5EW1.75	5	1.75	245	210	183	8" x 8" x 15'	84.3%	
8.000		*Indicates an ENERGYSTAR rated product.							
	(2) Heating Capaci	(1) Mbh = 1,000 BTU per hour [BTU = British Thermal Unit] (2) Heating Capacity based on 13% CO ₂ 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.							
FRONT VIEW RITHIN NIPLE 4	(3) G.P.H. = Gallon	s per hour o	oil at 140,000 BTU	per gallon					
REDUCING THE	(4) A.F.U.E. = Annu	al Fuel Utili	zation Efficiency b	pased upon D.O.E. tes	st procedure.			'	
					1.15. Consult manufacture piping systems,	cturer before selecting boiler	for installations having u	nusual piping	
17 1/2" RELIO	General In	ormat	ion (See Install	ation, Operation and I	Maintenance Manual f	or complete instructions)			
TO BLOWER SHOPE OF STATE WERE WERE STATE OF STATE WERE STATE OF ST	Clearances	Clearances (6) Required distances measured from boiler. (7) Service, Right Si		Combustil Materials (Required)	s	Servicing ⁽⁷⁾	Flue to Combustible Clearance		
	(C) Demuired			6" (15.2 cn	n)	18" (45.7 cm)			
	measured from			(* * /		24" (61 cm)	7		
	(7) Service,					24" (61 cm)	1		
	proper operation clearance	Front		18" (45.7 cm)		lo Requirement	18" (45.7 cm)		
	recommendation.	Back Bottom		6" (15.2 cn	n) N	lo Requirement			
WITH SWING DOOR				Non-Combustible N		lo Requirement	ement		
	Connections	nections Return/		turn/Supply Water 1-1/4" NPT					
	Electrical	Electrical		120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)					
[-4-]	Water Conten	Water Content		3EW - 9.6 Gallons, 4EW - 11.6 Gallons, 5EW - 13.7 Gallons					
NACK VIEW	Standard Equ	Standard Equipment		Boiler Control Module: Boilers without Tankless Heater Coil - Honeywell Combination High Limit Control and Circulator Relay. Boilers with Tankless Heater Coil - Honeywell Combination High Limit and Circulator Relay and Low Limit 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.					
	Options	Options		Beckett or Riello Burner, Manual Reset High Limit with plug-in Molex connector, and Direct Vent.					
logeis I To	Wgt. Certifications					· -			
- 	470		Energy S	5	F _®	AS _M	CERTI	FIED®	
4EW 17-3/4" 6" 9-5/8"	545		LEARN MORE A energystar.go	US	- \(\	H H	www.ahridir	ectory.org	
5EW 21" 6" 11-1/2"	630				Maxin Workina	num Allowable Pressure 50 psi.			

All ratings and specifications subject to change.

PN 240009785 Rev. 9/12



Contractor







