



OIL-FIRED WATER BOILER

EMPIRE EWC CAST IRON



UP TO 86.2% AFUE EFFICIENCY

The EWC Series is an atmospheric chimney vent boiler with inputs from 112 - 217 MBH. The boiler features a dependable cast Iron heat exchanger with cast iron push nipples and a Hydrolevel Operating Control with digital temperature display and diagnostics.

In the Less Coil version, the control monitors water temperature and delays the burner starting until any residual heat has been transferred. Thermal purge logic measures the rate of temperature change inside the boiler and delays burner firing accordingly, maximizing efficiency by turning on the burner only when needed.

In the With Coil version, the Low Limit Control seeks maximum temperature to satisfy domestic hot water call by bypassing thermal purge logic.

Swing Burner Door - Provides easy access for servicing and maintaining the burner/boiler.

Biofuel Certified - use up to B100 biofuel blends with Beckett burner or up to B20 with Riello burner.

Dunkirk Boilers are reliable, and we back them with a 5-year parts limited warranty.

EWC FEATURES

- 5 Models with 112 MBH - 217 MBH Inputs
- 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 the boiler maintains a water tight seal
- HydroLevel 3250 Operating Control:
 - Digital Temperature Display and Diagnostics
 - Adjusts Water Temperature based on demand
 - Built-in Low Water Cut Off (LWCO)
- Optional Tankless Domestic Hot Water Heater Coil
- Certified for up to B100 biofuel
- 20 Year Non-Prorated Limited Warranty (Residential)
5 Year Parts Limited Warranty (Residential)



AHRI CERTIFIED RATINGS

DIMENSIONS

MODEL	Firing Rate GPH	Fuel Type*	Input MBH ⁽¹⁾	Heating Capacity MBH ⁽¹⁾⁽²⁾	Net AHRI Rating MBH ⁽¹⁾⁽³⁾	Efficiency AFUE ⁽²⁾	# of Sec.	Tankless Coil GPM ⁽⁵⁾	Chimney Size ⁽⁴⁾	Water Content Gallons	- A - Width Inches	- B - Height Inches	- C - Depth Inches	Weight Lbs.
3EWC0.80(T)	0.80	NO. 2	112	98.0	85	86.0	3	3.05	8" x 8" x 15'	9.6	20 1/2	36	14 1/2	470
		B20	109	94.7	82									
		B100	102	88.8	77									
4EWC1.00(T)	1.00	NO. 2	140	122.0	106	86.2	4	3.25	8" x 8" x 15'	11.6	20 1/2	36	17 3/4	545
		B20	136	118.3	103									
		B100	128	111.0	97									
4EWC1.25(T)	1.25	NO. 2	175	152.0	132	86.0	4	3.50	8" x 8" x 15'	11.6	20 1/2	36	17 3/4	545
		B20	170	147.9	129									
		B100	159	138.8	120									
5EWC1.35(T)	1.35	NO. 2	189	167.0	145	86.0	5	3.60	8" x 8" x 15'	13.7	20 1/2	36	21	630
		B20	184	159.7	139									
		B100	172	149.9	130									
5EWC1.55(T)	1.55	NO. 2	217	189.0	164	86.0	5	3.80	8" x 8" x 15'	13.7	20 1/2	36	21	630
		B20	211	183.4	159									
		B100	198	172.1	150									

CONNECTIONS

Water Return & Supply	1-1/4" NPT
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ELECTRICAL

120 V ac, 60 hertz, 1 phase, less than 12 amps (15 amp circuit recommended)

STANDARD EQUIPMENT

Boiler Control Module: Hydrolevel Fuel Smart HydroStat, combination Low Water Cut Off with boiler temperature reset and circulator control.
 Display Interface: Digital display with easy to set dial-type limit settings.
 Heat Exchanger: cast iron sections with cast iron push nipples and swing door.
 Combustion: Flue Brush; Swing Fire Door with Insulation (Vacuum Formed Ceramic Fiber), Target Wall (Vacuum Formed Refractory Ceramic Fiber); Dura Blanket Insulation Chamber, and Barometric Draft Control 6".
 Other: 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

Burner options: Beckett, Riello, Carlin, Less; Manual Reset High Limit with plug-in Molex connector, and Direct Vent, Taco ECM pump or Less pump

* Beckett Burner is certified up to B100, Riello Burner is certified up to B20, Carlin Burner is #2 fuel only.

(T) Tankless Coil Models

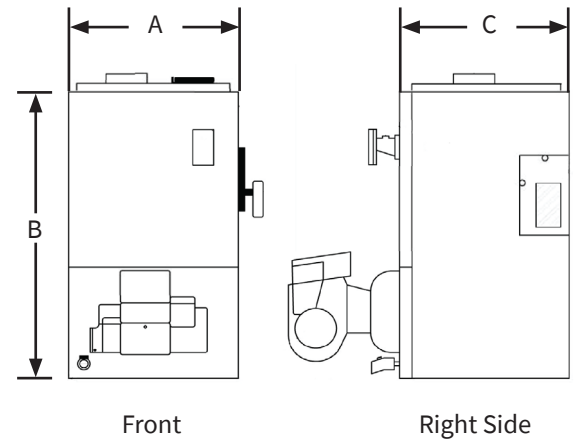
(1) MBH = 1000 Btu/hr (British Thermal Units Per Hour)

(2) Heating capacity and AFUE (Annual Fuel Utilization Efficiency) are based on DOE (Department of Energy) test procedure.

(3) Net AHRI ratings shown are based on piping allowance of 1.15. Consult manufacturer before selecting a boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.

(4) See IOM for full venting information.

(5) Capacity GPM applies to models with a tankless coil (T).



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