

PENNCO

SILVER

CAST IRON BOILERS

KWC Series

Oil-Fired Hot Water Boilers



The **Keystone KWC Series** Boiler is an affordable oil-fired heating solution. 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 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.

PRODUCT FEATURES

- 5 Models with 112 MBH - 217 MBH Inputs
- Up to 86.2% 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, 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
- Innovative American Manufacturing
- 20 Year Limited Warranty (Residential)

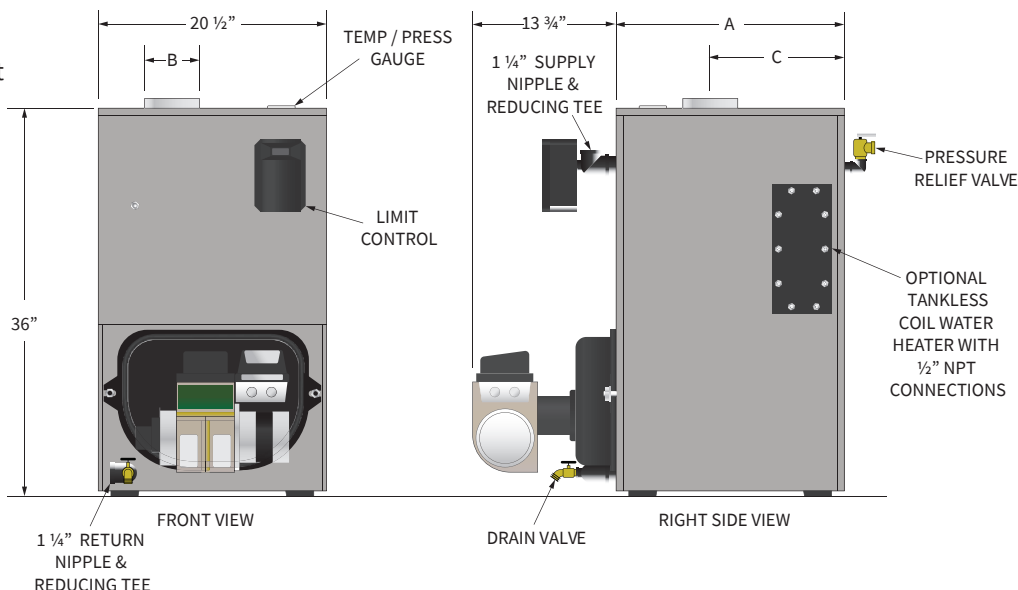
A green square logo with the words "Biofuel Certified" in white, bold, sans-serif font. A stylized green leaf graphic is positioned behind the text.

Simple, Comfortable, Affordable.

www.penncoboilers.com
PN 240009812 [08/14/26]

Standard Equipment:

- Assembled boiler with insulated jacket
- Beckett AFG Series Oil Burner
- Flue Brush
- Target Wall (Vacuum Formed Refractory Ceramic Fiber)
- DuraBlanket Insulation Chamber
- Barometric Draft Control 6"
- Combination Temperature/Pressure gauge
- Pre-wired 5' pump harness for supply or return mounting in the field
- 3/4" Boiler Drain Valve
- 30 psi ASME Relief Valve



ELECTRICAL

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

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.
3KWC0.80(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									
4KWC1.00(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									
4KWC1.25(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									
5KWC1.35(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									
5KWC1.55(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									

(T) = with Tankless Coil

* Beckett Burner is certified up to B100.

(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) Refer to IOM and vent pipe manufacturer's instructions for equivalent lengths and approved venting materials.

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



ECR international

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Tested For 100 psi
ASME
Working Pressure

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All specifications subject to change without notice.
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