

PENNCO 
SILVER
CAST IRON BOILERS

KW *Series II*
Oil-Fired Hot Water Boiler



Standard Equipment:

- Assembled boiler with insulated jacket
- Completely installed and wired Beckett AFG Series Oil Burner equipped with:
 - Oil Nozzle
 - Primary Control
 - CAD Cell
 - PSC Motor
 - Interrupted Duty Ignition and Clean Cut Pump
- Flue Brush
- Target Wall (Vacuum Formed Refractory Ceramic Fiber)
- DuraBlanket Insulation Chamber
- Barometric Draft Control 6"
- 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

The Pennco KW Series II now features a new Honeywell 2012 Compliant High Limit and Circulator Relay Control with digital temperature display and diagnostics.

- **Less Coil:** Control monitors water temperature and delays the burner starting until any 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.

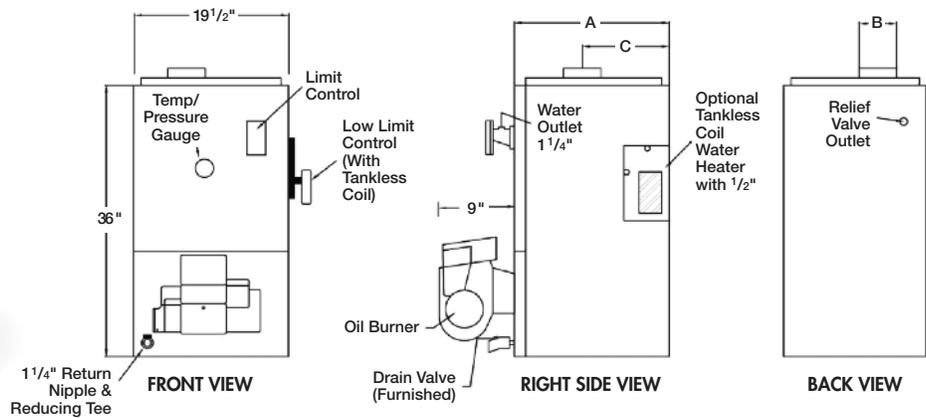
Quality Heat Exchanger Design – The KW Series II features a robust cast iron heat exchanger for longer boiler life. The sections are connected with cast iron push nipples, which expand and contract at the same rate as the sections ensuring a water tight seal. Available in a full range of sizes from 84 MBH up to 280 MBH Input capacity.

Efficiency – The KW Series II provides an EnergyStar rated annual fuel utilization efficiency of up to 86.1% as certified by the US Department of Energy testing standards.

Pennco SILVER makes Simple Comfort, Affordable.

KW Series II

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Specifications:

| MODEL | Number of Sections | Input | | Heating Capacity MBH (1) (2) | Net AHRI Rating, Water (MBH) (1) (5) | Minimum Chimney Size/Height | Dimensions (inches) | | | AFUE % (4) |
|-----------|--------------------|--------------|---------|------------------------------|--------------------------------------|-----------------------------|---------------------|---|--------|------------|
| | | G. P. H. (3) | MBH (1) | | | | A | B | C | |
| 3KW0.60*† | 3 | 0.60 | 84 | 74 | 64 | 8"x8"x15' | 17-3/4 | 6 | 9-3/4 | 86.1 |
| 3KW0.75* | 3 | 0.75 | 105 | 92 | 80 | 8"x8"x15' | 17-3/4 | 6 | 9-3/4 | 85.6 |
| 3KW1.00† | 3 | 1.00 | 140 | 120 | 104 | 8"x8"x15' | 17-3/4 | 6 | 9-3/4 | 84.4 |
| 4KW.90*† | 4 | 0.90 | 126 | 111 | 97 | 8"x8"x15' | 21 | 6 | 11-3/8 | 86.0 |
| 4KW1.25*† | 4 | 1.25 | 175 | 153 | 133 | 8"x8"x15' | 21 | 6 | 11-3/8 | 85.9 |
| 4KW1.50* | 4 | 1.50 | 210 | 181 | 157 | 8"x8"x15' | 21 | 6 | 11-3/8 | 85.1 |
| 5KW1.20*† | 5 | 1.20 | 168 | 147 | 128 | 8"x8"x15' | 24-1/4 | 6 | 13 | 86.1 |
| 5KW1.75* | 5 | 1.75 | 245 | 210 | 183 | 8"x8"x15' | 24-1/4 | 6 | 13 | 85.0 |
| 5KW2.00† | 5 | 2.00 | 280 | 239 | 208 | 8"x8"x20' | 24-1/4 | 6 | 13 | 84.0 |

* Indicates an ENERGYSTAR rated product.

† These firing rates available only with alternate firing rate kits.

- 3 Section Firing Rate Kit 550002646
- 4 Section Firing Rate Kit 550002674
- 5 Section Firing Rate Kit 550002648



- (1) Mbh = 1,000 BTU per hour [BTU = British Thermal Unit]
- (2) Heating Capacity based on 13% CO₂ 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.



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