



PeerlessBoilers.com

Series WBV/WV
Residential Oil Boilers



Quality Heating Products



Hard work and dedication by skilled employees have made us one of today's top cast iron boiler manufacturers. From the beginning, our main priority has been to serve customers' needs and to provide them with the best built cast iron boilers on the market. That commitment, still true today, is evident in all of our products and services.

Commitment to Comfort

We concentrate our efforts in one direction—hydronic heating. Hydronic heating is the most practical, dependable, efficient and versatile method available for heating a home. Hydronic systems heat by convection and radiation without the need for fans or blowers. This method of heat transfer is gentle and cleaner than that of warm air furnaces and heat pumps, keeping your family warm, healthy and happy.



Energy Efficiency



In cooperation with the U.S. Environmental Protection Agency and the Department of Energy, we are proud to offer residential oil boilers that meet or exceed efficiency standards for heating equipment. Certain models of Series WBV oil-fired boilers with AFUE ratings of 85% or higher, have earned the ENERGY STAR® symbol used to identify high-efficiency products. Installing boilers with the ENERGY STAR rating is not only efficient and economical, but also environmentally friendly. All Series WBV/WV boiler models have AFUE ratings between 81.9% and 86.1%, significantly exceeding the federal energy standards for residential boiler efficiency.

The Series WBV/WV Boiler

The Series WBV/WV residential, oil-fired boilers are available for use with both hot water and steam systems and designed for natural draft (chimney) venting. The fully-packaged or knockdown boilers are available in 3 sizes (3-5 sections) with 8 firing rates. Features of the Series WBV/WV boilers include a full plate swing-out door and convertible rear to top flue outlet (for 3 and 4 section boilers only). Honeywell operating controls, Taco circulators (water boilers) and probe type low water cut-off (steam boilers) are standard. A deluxe, insulated enameled steel jacket on all boilers reduces heat loss. The cast iron sections are assembled with steel push nipples and factory tested to assure a water tight seal.

High Efficiency, Flame Retention Burners

The Series WBV/WV boilers are available with your choice of Beckett, Riello or Carlin burners. These burners feature a high voltage, solid state igniter that improves ignition, and a state of the art motor that results in a lower amp draw and cooler operation. Burners also include a solid state control with interrupted ignition, limited recycle and reset, a pre-purge and other features that assure dependable service. The combination of the advanced control and a solenoid oil valve results in cleaner and quieter burner operation.

Domestic Hot Water

The Peerless® Partner® indirect-fired water heater provides a true advancement in hot water generation. By utilizing the Series WBV/WV boiler as its heat source, the boiler fires only when necessary and transfers heat energy from the boiler to the water heater through a highly efficient cupronickel, fin-tube heat exchanger.

The heater functions as a separate heating zone and water movement is regulated from the boiler through the heater coil by a separate circulator or zone valve.

The Peerless Partner water heater has two or more times the recovery rate of gas-fired water heaters and supplies as much as five times the amount of hot water as a comparably sized electric water heater.

Because of its light weight and durable plastic jacket, the Partner water heater is easy to install and virtually maintenance free. The Peerless Partner indirect-fired water heater is the perfect companion to the Series WBV/WV boiler, as well as a sensible and efficient addition to your home heating system.

- *Modern Coil Design*
- *Minimal Standby Temperature Loss*
- *Rapid Recovery Rate*
- *Easy Installation*
- *Long Lasting Stainless Steel Construction*
- *No Separate Chimney or Burner Needed*

Peerless® Partner® Indirect-Fired Water Heater Standard Equipment

- *High-Grade 316L Stainless Steel Tank*
- *Enclosed Thermostat Well*
- *Maintenance-Free Plastic Jacket*
- *Adjustable Honeywell Control*
- *2" Polyurethane Foam Insulation*
- *T&P Relief Valve*
- *Cupronickel, Fin-Tube Heat Exchanger*



Complete Warranty Program

We believe that the customer's peace of mind is very important. To help develop that security, we have created a comprehensive warranty program for residential cast iron boilers. These warranties are "full cost" warranties (up to the original cost of the boiler), rather than the pro-rated warranties currently offered by other boiler manufacturers. This warranty coverage does not decrease with time, rather, it remains complete for the entire length of the warranty. Customers can rest easy, knowing that their new boiler will provide years of dependable home heating comfort.

All residential cast iron boilers include a full one-year warranty. The Series WBV/WW water boilers have a

limited, lifetime warranty on the cast iron sections. We also provide a **limited, ten-year warranty** on the cast iron sections of its residential steam boilers. **Five and ten year extended warranties** on parts and labor are also available.

This summary is not a specific warranty. Consult us for complete details on all of our cast iron boiler warranties.



Product Ratings

Series WBV/WW										Water Content, gal		Minimum Stack Draft Required, in. W.C.
Model Number	Input ¹		Heating Capacity ⁵ , MBH		Net I=B=R Ratings ⁴			AFUE ⁵ , %		Water	Steam	
	GPH	MBH	Water	Steam	Steam, sqft	Steam, MBH ³	Water, MBH ²	Water	Steam			
WBV-03	0.60 +⊕	84	75	—	—	—	65	87.5*	—	11.75	—	-.03
WBV-03	0.85	119	104	103	321	77	90	86.2*	84.8	11.75	12.00	-.04
WBV-03	1.10	154	131	131	408	98	114	84.5	83.4	11.75	12.00	-.05
WBV-04	0.95+⊕	133	117	—	—	—	102	87.0*	—	14.75	—	-.03
WBV-04	1.25	175	151	151	471	113	131	85.4*	85.3*	14.75	14.87	-.04
WBV-04	1.50	210	179	179	558	134	156	84.2	84.3	14.75	14.87	-.05
WW-05†	1.75	245	212	—	—	—	184	85.5*	—	17.75	—	-.05
WW-05†	2.00	280	239	—	—	—	208	84.3	—	17.75	—	-.06

* As an ENERGY STAR® Partner, PB Heat, LLC has determined that these firing rates meet the ENERGY STAR guidelines for energy efficiency.

† Top venting only.

⊕ Nozzles for these firing rates not provided as standard equipment. Consult factory for price and availability.

⊕ This firing rate can only be achieved with a Riello F-3 burner. Consult us for details.

1 Burner input based on No. 2 fuel oil with a heating value of 140,000 Btu per gallon.

2 Net I=B=R water ratings based on an allowance of 1.15.

3 Net I=B=R steam ratings based on an allowance of 1.333.

4 Consult factory before selecting a boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.

5 Heating Capacity and Annual Fuel Utilization Efficiency (AFUE) ratings are based on U.S. Government tests, with 13% CO₂ and -0.02" w.c. draft over fire. Before purchasing this appliance, read important information about its estimated annual energy consumptions or energy efficiency rating that is available from your retailer.

6 Chimney Size: 8" x 8" x 15 ft.



A quality casting is the foundation for all our cast iron boilers.

For additional information on our products and services, visit our website at PeerlessBoilers.com. Loaded with valuable information, this user-friendly tool is a quick and easy way to answer many of your heating questions.

Series WBV/WV Features

- Packaged or Knockdown Oil Boilers
- Natural Draft Venting
- Flame Retention Burners
- Steam or Hot Water Boilers
- Optional Tankless Coils
- Rear or Top Flue Convertibility
- Skim Tapping for Cleaning Steam Boilers

Standard and Optional Equipment

Series WBV/WV Standard Equipment

- Cast Iron Sections - Factory Tested and Assembled with Steel Push Nipples
- Deluxe Insulated Enameled Steel Jacket
- Drain Valve
- Target Wall
- Top Cleanout
- Built-In Air Elimination Baffle
- Swing Out Door
- Rear Flue (WBV-03/04)—Field Convertible to Top Flue
- Top Flue (WV-05)

Water

- 30 PSI Safety Relief Valve

Water (cont.)

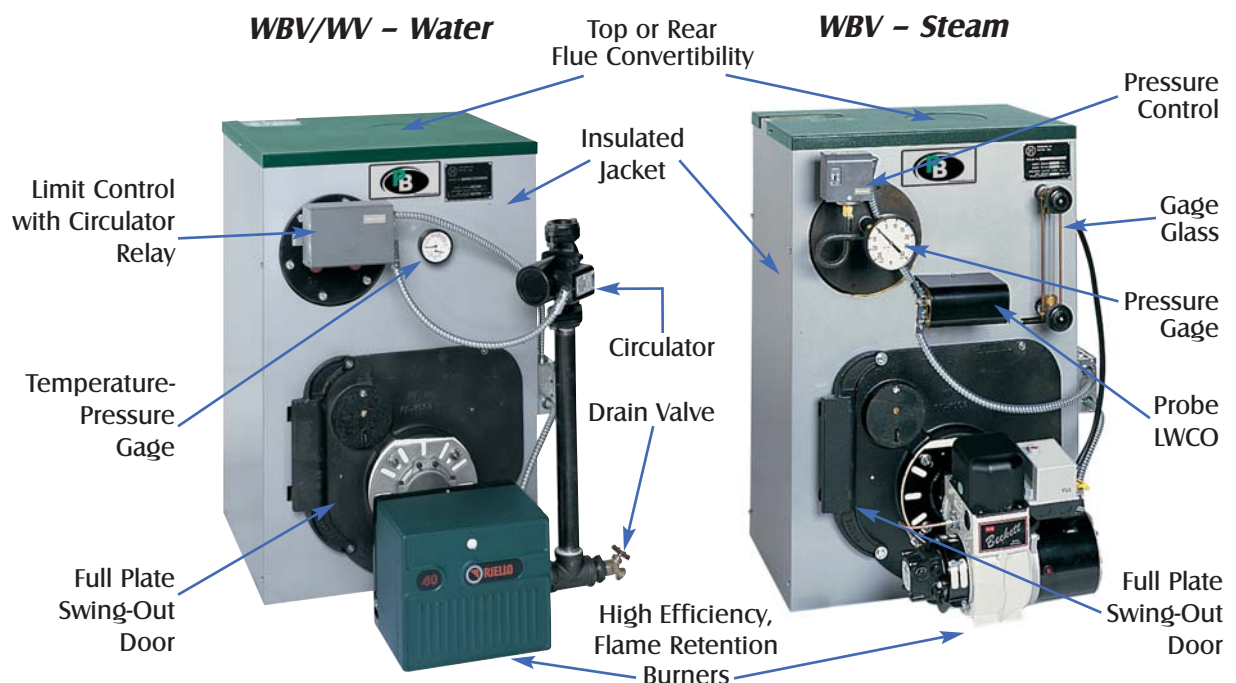
- Limit Control (WU Model)
- Limit Control Relay or Triple Limit Control Relay (WPC & WPCT Models)
- Temperature-Pressure Gage
- Taco Circulator (WPC & WPCT Models)

Steam

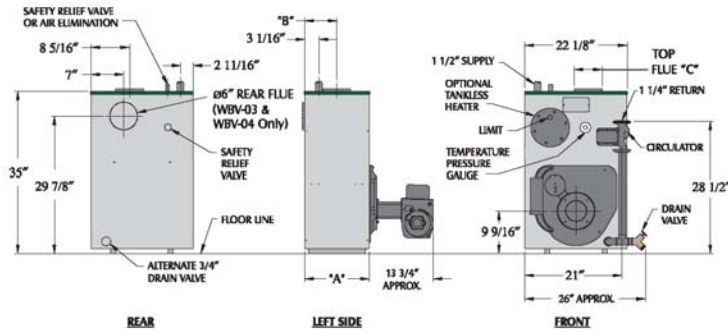
- 15 PSI Safety Valve
- Pressure Gage
- Gage Glass & Gage Cocks
- Probe LWCO (SP & SPT Models)
- Pressure Control (SU, SP & SPT Models)
- Skim Tapping

Series WBV/WV Optional Equipment

- Tankless Coils
- Barometric Draft Regulator
- Grundfos Circulator on Packaged Water Boilers
- Float Type LWCO on Packaged Steam Boilers
- Choice of Beckett, Riello or Carlin High Efficiency Flame Retention Burners

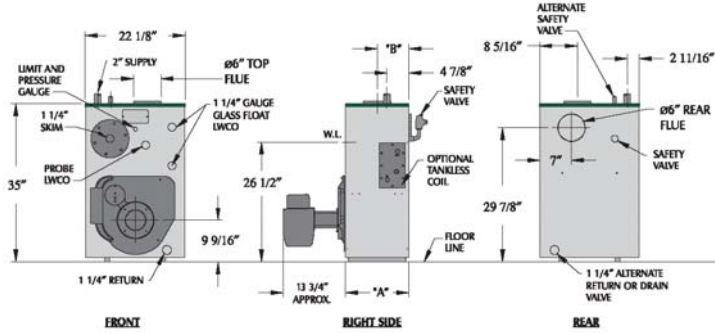


Technical Information



WBV/WW Water Boiler

WBV Steam Boiler



Boiler Dimensions

Boiler Model Number	Jacket Depth "A"	Rear of Jacket to C/L of Top Flue Outlet "B"	Top Flue Size "C"
WBV-03	14 1/8"	7 1/16"	6"
WBV-04	18 1/8"	9 1/16"	6"
WV-05	22 1/8"	11 1/16"	7"

Crate Dimensions & Shipping Weights

Boiler Model Number	Length		Width	Height	Approx. Shipping Weight (lbs.)							
	WPC, WPCT, WPCO	SP-SPT			WPC, WPCT, SP-SPT	Knockdown				Package		
			W	WU		S	SU	WPC	WPCT	SP	SPT	
WBV-03	35"	40"	28 1/2"	39 3/4"	470	485	535	550	566	575	573	584
WBV-04	43"	40"	28 1/2"	39 3/4"	590	605	650	665	694	708	685	696
WV-05	43"	—	28 1/2"	39 3/4"	710	725	—	—	805	813	—	—



PeerlessBoilers.com

Installed By:



Printed on Recycled Paper