



**U.S. UNION STEAM**

# OWB/OWT

Series 2

**Factory-Packaged  
0.70 to 1.75 GPH #2 Fuel Oil**

OWB  
No Tankless



OWT  
With Tankless Heater



- AFUE's to 86.4%
- Temperature limit control with LWCO function
- Factory Tested
- Easy service
  - Swing-away burner door
  - Top access cleanout cover
  - Plug-in wiring harness
- High efficiency oil burner
  - Solenoid valve
  - PSC motor
  - Solid state ignitor
- Rear flue outlet
  - Top flue available with optional kit
- Cast iron sections with built-in air separator
- Insulated heavy-gauge steel jacket



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# RATINGS

Boiler Model	I=B=R Burner Capacity	DOE Heating Capacity	Net I=B=R Ratings	DOE Seasonal Efficiency	Flue Connection Size	Minimum I=B=R Chimney Size (x 15' High)		Draft Loss Through Boiler	Approx. Shipping Weight (Lbs)		Circulator Flange Size (Recommended Supply & Return Pipe Size, NPT)
	GPH (1)	MBH (2)	MBH (3)	% AFUE	Round	Rectangle	Round	Inches W.C.	OWB	OWT	
OWB/OWT-3	0.70	86	75	86.4	7"	8" x 8"	6"	0.010	540	560	1 1/4"
OWB/OWT-3	0.95	115	100	85.0	7"	8" x 8"	6"	0.020	540	560	
OWB/OWT-4	1.00	122	106	86.2	7"	8" x 8"	6"	0.010	645	660	
OWB/OWT-4	1.20	145	126	85.0	7"	8" x 8"	6"	0.010	645	660	
OWB/OWT-5	1.20	147	128	86.1	7"	8" x 8"	7"	0.010	760	775	1 1/2"
OWB/OWT-5	1.45	174	152	85.0	7"	8" x 8"	7"	0.015	760	775	
OWB/OWT-6	1.40	171	149	86.1	7"	8" x 8"	7"	0.010	860	875	
OWB/OWT-6	1.75	212	184	85.0	7"	8" x 8"	7"	0.015	860	875	

(1) Based on 140,000 Btu per gallon, #2 fuel oil.

(2) Based on standard test procedures prescribed by the United States Department of Energy, with combustion conditions of 13.5% CO<sub>2</sub> and 0.02" W.C. draft.

(3) Net I=B=R ratings are based on net installed radiation of sufficient quantity for the requirements of the building and nothing need be added for normal piping and pickup. Ratings are based on a piping and pickup allowance of 1.15. Additional allowance should be made for unusual piping and pickup loads.

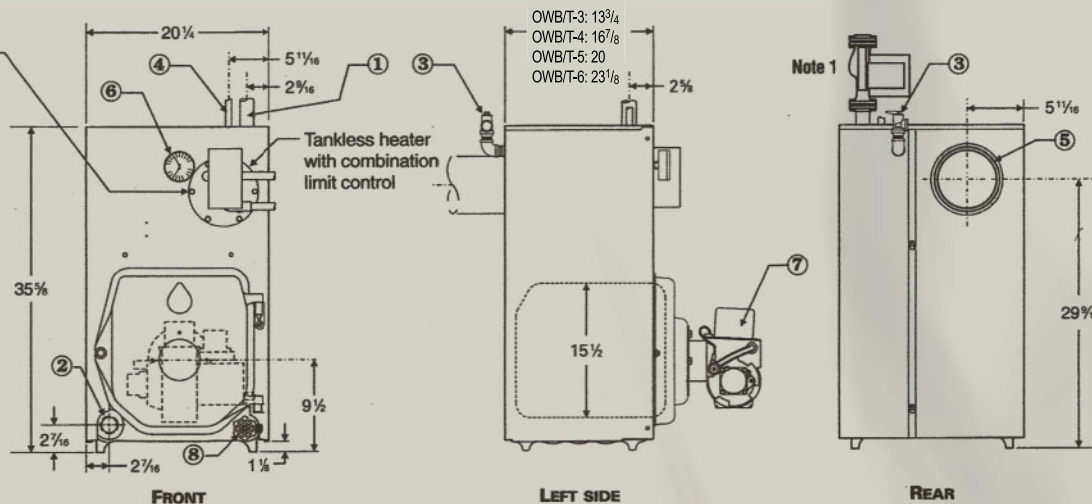
As an Energy Star partner W-T has determined that this product meets Energy Star guidelines for energy efficiency.

# DIMENSIONS

ALL DIMENSIONS IN INCHES

Boiler Model	Tankless Heater	Intermittent draw rating
OWT-3	WT-11	3.00 GPM (50°F to 140°F)
OWT-4	WT-14	3.75 GPM (40°F to 140°F)
OWT-5	WT-14	4.00 GPM (40°F to 140°F)
OWT-6	WT-14	4.25 GPM (40°F to 140°F)

Tankless heater tappings are 1/2" NPT, with 3/4" NPT center tapping for tankless temperature control/limit.



- ① Supply piping (Note 1)
- ② Return piping (Note 1)
- ③ Relief valve, 3/4" NPT
- ④ 1/2" NPT to expansion tank/air vent
- ⑤ Vent connection—7" diameter
- ⑥ Pressure/temperature gauge
- ⑦ Oil burner (shipped in separate carton)
- ⑧ Drain valve

Note 1: Boiler supply and return tappings are 1 1/2" NPT. Circulator flanges shipped with boiler are sized to recommended pipe size listed in RATINGS table, above.

Boiler circulator is shipped loose. Circulator may be mounted on either boiler supply or return piping.

# EQUIPMENT

- Factory tested
- Factory-assembled cast iron section assembly, including aluminized steel flue collector, swing-away burner mounting door, with refractory blanket and recessed target wall in combustion chamber.
- Taco 007 circulator
- High Efficiency flame-retention oil burner (Beckett AFG or NX, Carlin or Riello)
- High limit control with circulator relay and LWCO function
- Built-in air separator
- Combination pressure/temperature gauge
- 30 PSIG ASME relief valve
- Drain Valve
- Barometric damper
- Tankless heater (OWT)

## OPTIONAL

- Top flue vent kit

# WARRANTY

- Limited lifetime warranty on heat exchanger
- 3-year limited warranty on parts
- Optional 5 - or 10-year parts and labor warranty



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