

THERMOFLO

OWB

Oil-fired Water Boilers

- Factory tested
- Easy service
 - Swing-away burner door
 - Low draft loss
 - Top access cleanout cover
 - Plug-in wiring harness
- High efficiency oil burner
 - Flame retention head design
 - Solenoid valve
 - PSC motor
 - Solid state ignitor
- Rear flue outlet
- Cast iron sections with built-in air separator
- Insulated heavy-gauge steel jacket
- Limited lifetime warranty

- Factory-packaged
- 0.75 to 2.00 GPH Input



Thermoflo

RATINGS



| Boiler model number | 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) | | Boiler water content | Draft loss through boiler | Circulator flange size (Recommended supply & return pipe size, NPT) |
|---------------------|-----------------------|----------------------|-------------------|-------------------------|----------------------|---|-------|----------------------|---------------------------|---|
| | GPH ① | MBH ② | MBH ③ | % AFUE | (Round) | Rectangular | Round | Gallons | Inches W.C. | |
| OWB-3-075 | 0.75 | 90 | 78 | 84.3 | 7" | 8" x 8" | 6" | 11.0 | .000 | 1 1/4" |
| OWB-3-100 | 1.00 | 116 | 101 | 82.2 | 7" | 8" x 8" | 6" | 11.0 | .000 | |
| OWB-4-110 | 1.10 | 129 | 112 | 82.5 | 7" | 8" x 8" | 6" | 13.4 | .010 | |
| OWB-4-125 | 1.25 | 145 | 126 | 81.7 | 7" | 8" x 8" | 6" | 13.4 | .010 | |
| OWB-5-135 | 1.35 | 159 | 138 | 82.8 | 7" | 8" x 8" | 7" | 15.9 | .010 | 1 1/2" |
| OWB-5-150 | 1.50 | 174 | 151 | 81.3 | 7" | 8" x 8" | 7" | 15.9 | .010 | |
| OWB-5-165 | 1.65 | 191 | 166 | 81.2 | 7" | 8" x 8" | 7" | 15.9 | .010 | |
| OWB-6-175 | 1.75 | 203 | 177 | 80.8 | 7" | 8" x 8" | 7" | 18.4 | .000 | |
| OWB-6-200 | 2.00 | 231 | 201 | 80.7 | 7" | 8" x 8" | 7" | 18.4 | .005 | |

① Based on 140,000 Btuh per gallon, #2 fuel oil.

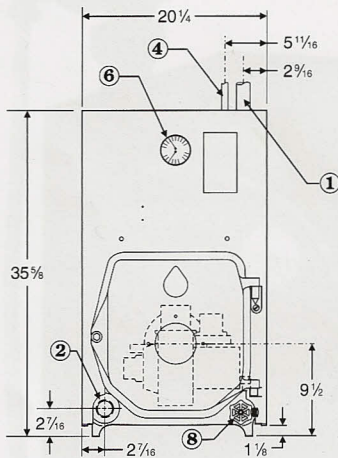
② Based on standard test procedures prescribed by the United States Department of Energy, with combustion conditions of 13% CO₂ and -0.02" W.C. draft.

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.

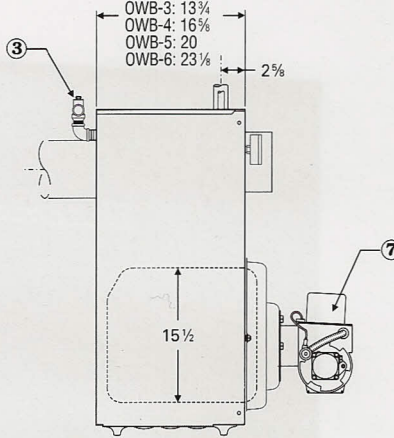
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DIMENSIONS

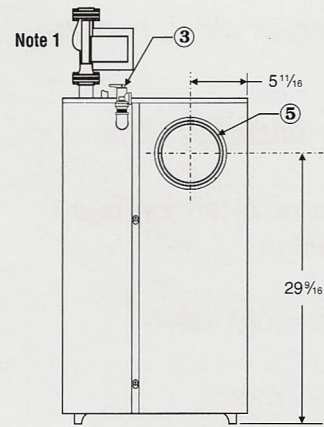
ALL DIMENSIONS IN INCHES



FRONT



LEFT SIDE



REAR

- 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

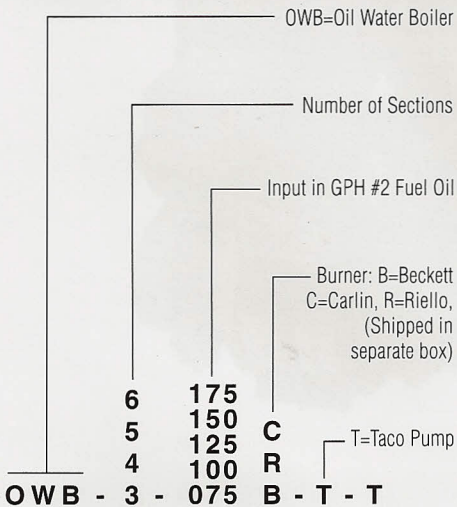
- ⑤ Vent connection — 7" diameter
- ⑥ Pressure/temperature gauge
- ⑦ Oil burner (shipped in separate carton)
- ⑧ Drain valve

Note 1: Boiler supply and return tapings 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.

ORDER CODE

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 Carlin EZ, or Riello)

- High limit control with circulator relay
- Built-in air separator
- Combination pressure/temperature gauge
- 30 PSIG ASME relief valve
- Drain valve
- Barometric damper

OPTIONAL

- Two-stage oil burner fuel unit

WARRANTY

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



Thermoflo

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