

# WEIL-McLAIN

**WTGO**Oil-Fired  
Water Boiler  
with tankless heater opening*an ISO 9001 Certified Company*

# WTGO

GOLD Series 3

## OIL-FIRED WATER BOILER WITH TANKLESS HEATER OPENING

**Ratings — (8 sizes)**

99,000 – 257,000 BTUH NET

0.95 – 2.55 GPH #2 FUEL OIL

- 1 **High capacity tankless heater**  
Captured seal design; fully visible joint
- 2 **High efficiency**  
Save fuel with 85% & higher AFUE
- 3 **Convertible flue (rear/top)**  
Easy switch from rear to top flue
- 4 **Swing-away burner door**  
Easy to open or remove; full access to chamber
- 5 **Easy inspection & cleaning**  
Quick-open cover; top cleaning full width
- 6 **Factory-wired circulator**  
Circulator harness wired; circulator ships loose
- 7 **Service switch**  
Easy power disconnect for servicing boiler
- 8 **Recessed target wall**  
Design protects target wall from flue brush
- 9 **Captured seal nipple port design**  
Grooves protect seals from contaminants
- 0 **Burner shipped separately**  
... for maximum flexibility



As an **ENERGY STAR** Partner, Weil-McLain has determined that this product meets the **ENERGY STAR** guidelines for energy efficiency.



# WEIL-McLAIN

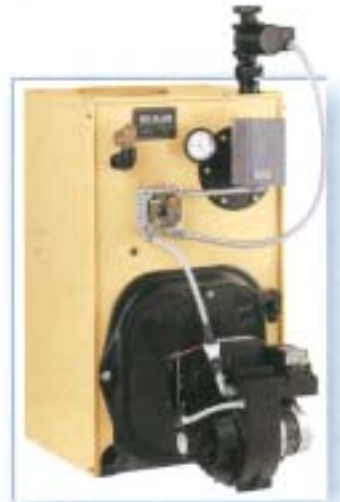
... Heating America!

**Presenting . . .** the Weil-McLain **WTGO GOLD** — a residential oil-fired hot water boiler, available with a high-capacity tankless heater, with all the features installers and homeowners have asked for — **Outstanding performance . . . innovative design . . . easier to install and service . . . top or back venting . . . limited lifetime warranty . . .** just a few of the advantages that make the WTGO GOLD boiler the industry's best value. And best of all, the WTGO GOLD boiler is made by Weil-McLain, America's leading name in cast iron boilers for over a century.

The WTGO GOLD is available packaged or knockdown. Burners are ordered and shipped separately — to give you maximum flexibility. Use any of the approved burners from Weil-McLain, including Beckett AFG, Carlin EZ and Riello.

**P-WTGO** *Packaged* — Factory assembled and wired with jacket, circulator and controls (WTGO-3 through -6). Circulator is shipped loose for mounting on supply or return.

**A-WTGO** *Knockdown* — Factory assembled sections with jacket installed (except A-WTGO-7, -8 & -9), controls packed separately (WTGO-3 through -9). A-WTGO-7 through A-WTGO-9 blocks are skidded for shipment. For easier handling, these units can be separated into two blocks since short draw rods are used in the middle of the assembly.



## Convertible flue (rear or top)



As shipped (rear flue)

The WTGO has two flue outlets — one in back, one on top — to provide complete venting flexibility. The boiler is shipped ready for back venting with an aluminized steel cap on the top flue outlet. If top venting is desired, the flue cap can be quickly removed and attached to the back outlet. Two special L-brackets are supplied to make it easy to connect flue pipe to either outlet.



Converted (top flue)

## Easy inspection/top cleaning



Flueways can be visually inspected without taking apart the vent pipe by removing the jacket cap and flue outlet cap from the unused flue outlet.

Removing the flue collector hood provides complete access to all flueways for fast, thorough cleaning. And the placement of the heat pins provides specific paths for flue brush travel. No stuck brushes!





# OIL-FIRED WATER BOILER WITH TANKLESS HEATER OPENING

# WTGO

## Swing-away burner door/recessed target wall



The full swing-away burner door provides easy access to the entire combustion area to simplify inspection, cleaning and burner servicing. If desired, the door can be easily removed from the hinges. A quick-disconnect plug breaks power to burner when door is open.

The WTGO target wall fits securely into the recess in the wide back section. Flue brushes can't contact the target wall because of the unique rear section heat exchanger design.



## Cast iron sections/captured seals



- Rely on WTGO boilers — WTGO boilers use cast iron sections, proven for durability and long life. Weil-McLain boilers have often provided 35 years or more of reliable service.
- The WTGO's heat pin design yields high efficiency, yet is more tolerant of varying job conditions and makes cleaning faster and easier.
- High-temperature rope compressed between the sections makes a gas-tight seal in the flueways.
- Weil-McLain captured seal — Boiler sections want room to move as they heat and cool. The WTGO's modern elastomer seals provide the ultimate freedom for the cast iron to flex (unlike rigid metal push nipples), preventing leaks caused by expansion and contraction. And the precision-machined port grooves secure the seals in place and protect them from contaminants in the water.

## Indirect heating — Tankless heaters and WM heat exchangers



WTGO GOLD boilers use Weil-McLain high-capacity tankless heaters — for up to 33 percent more hot water. The heater opening incorporates the same captured seal design and elastomer ring as used between the boiler sections. And the port opening extends outside the jacket for full visibility.

Weil-McLain WMBP and WMPH heat exchangers offer increased versatility for your heating system and take advantage of the high efficiency and reliability of the GOLD boiler.



# Ratings



# Equipment

Boiler model number	I=B=R burner capacity		DOE heating capacity		Net I=B=R ratings		DOE seasonal efficiency % AFUE		Tankless heater intermittent draw rating		Draft loss through boiler		Minimum I=B=R chimney size		
	GPH	MBH	MBH	MBH	MBH	MBH	% AFUE	GPM (Note 6)	inch w.c.	inch w.c.	Rectangular inches	Round inches	Height feet		
*WTGO-3	0.95	115	100	85.3	3.25	.020									
P-WTGO-3L	0.95	114	99	84.5	3.00	.020							6	15	
*WTGO-4	1.20	145	126	85.0	3.75	.010							7		
*WTGO-5	1.45	175	152	85.0	4.00	.015							8		
*WTGO-6	1.75	212	184	85.0	4.25	.015							8		
*WTGO-7	2.00	242	210	85.0	5.50	.015							8	20	
*WTGO-8	2.30	266 (Note 4)	231	--	5.75	.025							8	20	
*WTGO-9	2.55	295 (Note 4)	257	--	6.00	.030							8	20	

\* Substitute "P" for packaged boiler (WTGO-3 through WTGO-8 only). Substitute "A" for boiler only (WTGO-3 through -8).

1. No. 2 fuel oil — Commercial Standard Specification CS75-56. Heating value of oil — 140,000 BTU/Gal.

2. Based on standard test procedures prescribed by the United States Department of Energy at combustion condition of 13.1% CO<sub>2</sub> and -9.02" W.C. draft.

3. MBH refers to thousands of BTU per hour.

4. I=B=R gross output.

5. Net I=B=R ratings are based on net installed radiation adequate for the requirements of the building, including a piping and pickup allowance of 1.15 — sufficient for normal conditions. Provide additional allowance only for unusual piping and pickup loads. Consult a Weil-McLain representative.

6. Tankless heater rating is in gallons water per minute, heated from 40°F to 140°F with 200°F boiler water temperature — tested in accordance with IAHW Testing and Rating Standard for Indirect Tankless Water Heaters Test with Boilers.

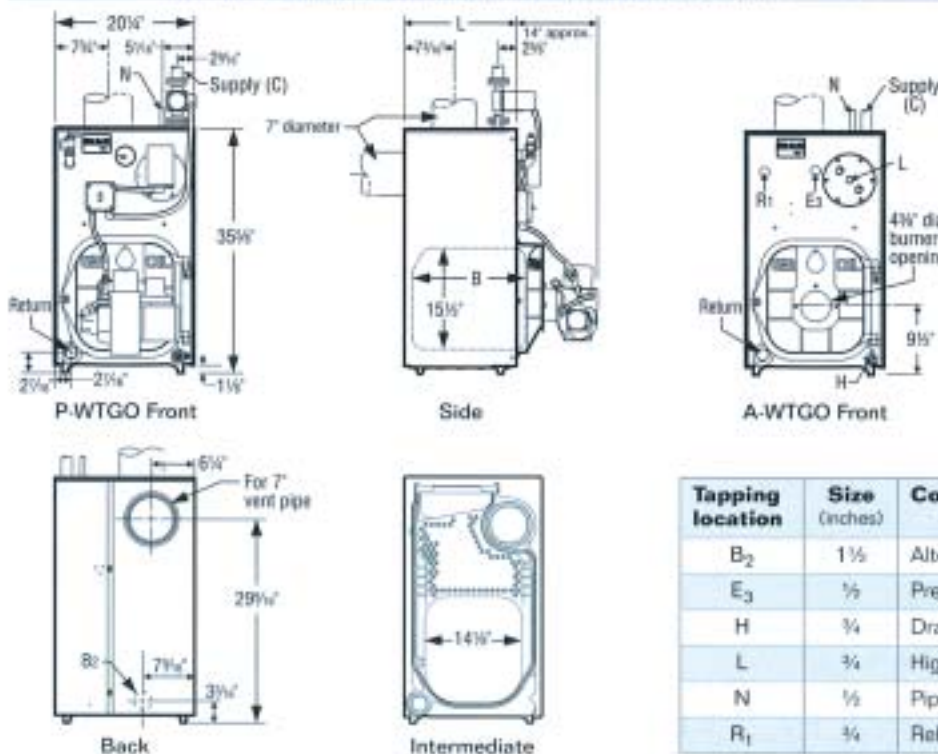
7. Listed draft losses are for standard burner settings.

# Dimensions

Boiler model number	Supply "C" (inches)		Return (inches)	Dimensions (inches)		Approximate shipping weight (lbs) (Note 1)	Tankless heater	
	P-WGO	A-WGO		B	L		Number	Tappings
*WTGO-3				13 1/2	18 1/2	540		
P-WTGO-3L	1 1/2 (circulator range)	1 1/2	1 1/2	10 1/2	13 1/2	595	9T-14	Inlet and outlet 1/2" NPT
*WTGO-4				13 1/2	18 1/2	645		
*WTGO-5	1 1/2 (circulator range)	1 1/2	1 1/2	16 1/2	20	780		
*WTGO-6				20	23 1/2	880		Temperature control tapping 1/4" NPT
*WTGO-7				23 1/2	26 1/2	990	9T-20	
*WTGO-8	not applicable	1 1/2	1 1/2	25 1/2	29 1/2	1,000		
*WTGO-9				29 1/2	32 1/2	1,135		

Quote Dimensions: Height — 39" Width — 23" Length (\*WTGO-3, -4) — 27" (\*WTGO-5, -6) — 33"

Note 1: Weights based on P-WTGO units 2-6 and A-WTGO units 7-9 with all components including burner.



Tapping location	Size (inches)	Control
B <sub>2</sub>	1 1/2	Alternate return — "A" units only
E <sub>3</sub>	1/2	Pressure/temperature gauge
H	3/4	Drain valve
L	3/4	High limit/circulator control
N	1/2	Piping to expansion tank or automatic air vent
R <sub>1</sub>	3/4	Relief valve

In the interest of continual improvements in product and performance, Weil-McLain reserves the right to change specifications without notice.



Locate our Sales Offices by visiting our website:  
[www.weil-mclain.com](http://www.weil-mclain.com)

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- ### Standard Equipment
- Limited lifetime warranty on boiler sections
  - Factory tested
  - Factory-assembled cast iron sections with the following parts installed. (Jacket and collector hood are not assembled on 7-, 8- and 9-section blocks.)
    - Tankless heater (P units) or tankless opening cover plate (A units)
    - Insulated steel jacket
    - Aluminized steel flue collector hood with flue cap on top outlet
    - Swing-away burner mounting door
    - Refractory blanket and target well in combustion area
  - Circulator (Taco 007, B&G NRF-22 or Grundfos UP15) — supplied with "P" units only
  - High-low limit control with circulator relay (All P-units/A-units ordered with tankless heater)
  - High limit control with circulator relay (A-units without tankless heater)
  - Electrical junction box with wiring harnesses
  - Junction box cover plate with service switch
  - Two vent pipe brackets
  - Pressure/temperature gauge
  - 30 PSI ASME relief valve (boiler sections tested for 50 PSI working pressure)
  - Drain valve
  - Balanced draft damper
- ### Optional Equipment
- High-efficiency flame-retention oil burner (Beckett AFG, Carlin EZ or Riello). Specify 2-stage fuel unit (optional) if required.
  - Tankless heaters and controls
  - Weil-McLain 5-year or 10-year Homeowner Protection Plan
  - Weil-McLain Indirect-Fired Water Heaters
  - Three-piece circulators — Taco 110 or B&G 100