

## Residential Combi2™ Energy Saver Oil-Powered Water Heater



Photo is of  
C-DW1-70L6OF

### Combi2™ Oil-Powered Model Features:

- **Dual Purpose Heating**—Provides domestic potable hot water and hydronic heating in one energy saving system.
- **Heat Exchanger**—Double wall 1½" O.D. glass coated (Vitrageas<sup>®</sup>) steel coil. Two pipes guarantee that the potable water will stay separate from the hydronic fluid. A positive leak path between the inner and outer pipes is used to indicate leaks of either the domestic side of the coil or the hydronic side of the coil.
- **Low Heat Exchanger Head Loss**—Up to 10 GPM flow, with less than 5 ft. of head loss. Greatly reduces the required pump size for heat exchange.
- **High Recovery Rates**—Oil heats water 3 to 4 times faster than other methods. This model is designed to assure a constant supply of hot water provided the draw-off rate is within the recovery capacity of the unit.
- **Factory Installed Hydrojet<sup>®</sup> Total Performance System**—Cold water inlet sediment reducing device helps prevent sediment build up in tank. Increases first hour delivery of hot water while minimizing temperature build up in tank.
- **Vitrageas<sup>®</sup> Lining**—Bradford White tanks are lined with an exclusively engineered enamel formula that provides superior tank protection from the highly corrosive effects of hot water. This formula (Vitrageas<sup>®</sup>) is fused to the steel surface by firing at a temperature of over 1600°F (871°C).
- **Thermostatic Mixing Valve**—Supplied with unit to help prevent injury due to scalding.
- **Space Heating Connections**—¾" NPT female tapings on the front of the water heater for easy pipe connections.
- **1" Non-CFC Foam Insulation**—Covers the sides and top of the tank, reducing the amount of heat loss. This results in less energy consumption, improved operation efficiencies and jacket rigidity.
- **Water Connections**—¾" NPT factory installed true dielectric fittings extend water heater life and eases installation.
- **Two Protective Aluminum Anode Rods**—Provide added protection against corrosion for long trouble-free service.
- **Flue Baffle**—Designed to maximize the amount of heat absorbed in the lower portion of tank. Reduces air movement in the heater during standby periods to retard heat loss up the flue.
- **Steel Tank**—Heavy gauge steel automatically formed, rolled and welded.
- **T&P Relief Valve**—Installed.
- **Low Restriction Brass Drain Valve**—Durable tamper proof design.
- **Design Certified by CSA International (formerly AGA/CGA).**



### 6-Year Limited Tank and Heat Exchanger Warranties / 2-Year Limited Warranty on Component Parts.

For more information on warranty, please visit [www.bradfordwhite.com](http://www.bradfordwhite.com)

For products installed in USA, Canada and Puerto Rico. Some states do not allow limitations on warranties. See complete copy of the warranty included with the heater.

# Residential Oil-Powered Water Heater System

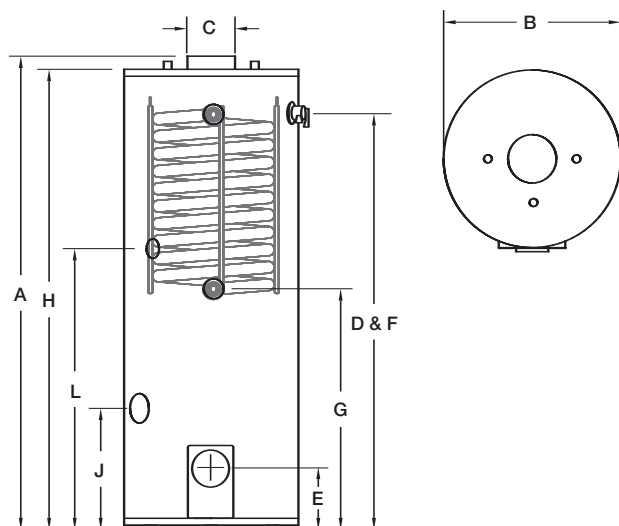
## Combi2™ Energy Saver Model

Meet or exceed ASHRAE 90.1b (current standard)  
78% Recovery Efficiency

Model Number	Capacity		GPH Firing Rate	Recovery 90°F Rise*		A	B	C	D	E	F	G	H	J	L	Approx. Shipping Weight	
	U.S. Gal.	Imp. Gal.		BTU/Hr. Input	U.S. GPH	Imp. GPH	Floor to Flue Conn.	Jacket Dia.	Vent Size	Floor to T&P	Floor to C/L Burner Opening	Floor to Exchanger Outlet	Floor to Exchanger Inlet	Floor to Top of Unit	Floor to C/L Combustion Chamber Sight Hole		Floor to Control Thermostat
C-DW1-70L60F	68	57	119,000	0.85	127	119	66 <sup>3</sup> / <sub>4</sub>	24	6	57 <sup>3</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>16</sub>	57 <sup>3</sup> / <sub>8</sub>	35 <sup>1</sup> / <sub>4</sub>	64	13 <sup>1</sup> / <sub>4</sub>	33 <sup>3</sup> / <sub>8</sub>	299
Model Number	Capacity		GPH Firing Rate	Recovery 50°C Rise*		A	B	C	D	E	F	G	H	J	L	Approx. Shipping Weight	
	Liters	kW Input		Liters/Hour	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.		
C-DW1-70L60F	259	34.8	0.85	537	1695	610	152	194	208	1407	845	1626	337	860	137		

\*Based on manufacturers rated recovery efficiency.

†Shipping weights do not include burner and controls.



Heat Exchanger Head Loss	
GPM	Ft. of Hd. Loss
2	trace
5	0.4
8	2.3
10	4.6
12	6.9

C-DW1-70L60F	
Input	119,000 BTU/Hr. 34.8 kW
Water Heating	
First Hour Rating	174 Gal. 145 Imp. Gal. 659 Liters/Hr.
Space Heating	
CAAFUE%	78
Max. Heating Capacity	48,000 BTU/Hr. 16.1 kW

⊗ Based on ANSI Z21.10.1 and 10.3 and DOE Test Methods.

♦ Based on ANSI/ASHRAE 124 Standard. Actual values may vary based on circulator flow rate, number of zones, water and space heating demands. Numbers subject to change.

### Meets NAECA Requirements

#### General

This oil powered water heater is certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa). All potable water and heat exchanger connections are 3/4" NPT (19mm). The potable water connections are on 11" (203mm) centers.

All models design certified by CSA International (formerly AGA/CGA).

**Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.**

#### Suitable for Water (Potable) Heating and Space Heating

Toxic chemicals, such as those used for boiler treatment, shall NEVER be introduced into the potable water side. The potable side of this unit may NEVER be connected to any existing heating system or component(s) previously used with a non-potable water heating appliance. The heat exchanger side of the unit may be used in space heating applications.



For U.S. and Canada field service, contact your professional installer or local Bradford White sales representative.

Sales 800-523-2931 • Fax 215-641-1670 / Technical Support 800-334-3393 • Fax 269-795-1089 • Warranty 800-531-2111 • Fax 269-795-1089

International: Telephone 215-641-9400 • Telefax 215-641-9750 / [www.bradfordwhite.com](http://www.bradfordwhite.com)

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## Built to be the Best™

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