

Combi2®

Residential Atmospheric Vent Gas Water Heater System

Features

- **Defender Safety System**®*—Designed to be the safest & most reliable flammable vapor ignition resistant system in the industry with a proven track record since 2003. Featuring an advanced ScreenLok® technology flame arrestor design, resettable thermal switch, sight window, and designed to be maintenance-free.
- Bradford White ICON System®—Intelligent gas control with no need for external electricity. Proprietary algorithms provide tighter temperature differential and consistent water temperature levels up to 180°F (82°C). LED light indicates operation status/service required.
- Vitraglas® Lining with Microban®—An exclusively engineered enamel formula that provides superior tank protection from the corrosive effects of water; and with Microban® antimicrobial product protection to help prevent the growth of bacteria, mold and mildew on the surface of the tank lining.
- Hydrojet® Total Performance System—Sediment reducing device that also increases first hour delivery of hot water while minimizing temperature build-up in tank.

Additional Details

- Internal Double Wall Heat Exchanger Double wall 11/2" (38mm) O.D. glass coated (Vitraglas®) steel coil ensures separation of potable water and heating fluid.
 - 3/4" (19mm) NPT Front Supply and Return Connections.
 - Low Heat Exchanger Head Loss-Up to 8 GPM (30 LPM) flow, with less than 6 ft. (1.8m) of head loss. Greatly reduces the required pump size for heat exchange.
- Insulation System—Non-CFC foam covers the tank, reducing heat loss, energy consumption, and improves efficiency and jacket rigidity.
- Pedestal Base—Rugged and durable base allows easy transport and positioning while providing corrosion-resistant contact with floor.
- Water Connections—¾" (19mm) NPT factory installed true dielectric fittings.
- Two Protective Anode Rods—Provides added protection against corrosion for long-term, trouble-free service.
- T&P Relief Valve—Installed.
- Low Restrictive Brass Drain Valve—Durable tamper proof design.
- Thermostatic Mixing Valve (ASSE Approved)—Included.

*C-DW2-504T10FBN only



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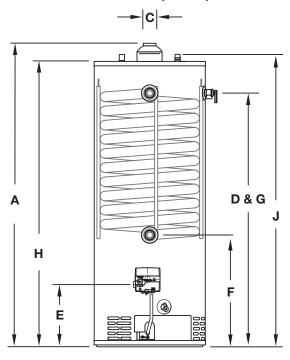
SPECIFICATIONS

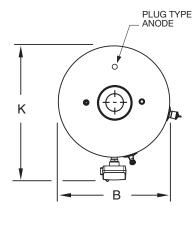
These water heaters meet or exceed all or portions of (where applicable) the minimum efficiency requirements of ASHRAE Standard 90.1 (latest edition).C.E.C. Listed. 80% Recovery Efficiency.

Model Number	Capacity					Reco 90°F	overy Rise*		A Floor to Flue	B Jacket Dia.	C Vent Size	D Floor to T&P	E Floor to	F Floor to	G Floor to	H Floor to	J Floor to	K Depth	Approx. Shipping Weight
	U.S. Gal.	lmp. Gal.	Nat. BTU/Hr. Input	LP BTU/Hr. Input	Nat. U.S. GPH	Nat. Imp. GPH	LP U.S. GPH	LP Imp. GPH	Conn. in.	in.	in.	Conn. in.	Gas Conn. in.	Exchanger Inlet in.	Exchanger Outlet in.	Top of Heater in.	Water Conn. in.	in.	lbs.
C-DW2-504T10FBN	45	38	65,000	61,000	70	59	66	55	59 ¹ / ₄	22	4	50	13	277/8	50	56 ³ /8	603/8	241/2	238
C-DW2-75T10BN	72	61	76,000	76,000	81	70	81	70	621/4	26	4	513/4	137/8	295/8	513/4	59	63	30 3/8	302
Model Number	Capacity					Reco 50°C			A Floor to Flue	B Jacket Dia.	C Vent Size	D Floor to T&P	E Floor to	F Floor to	G Floor to	H Floor to	J Floor to	K Depth	Approx. Shipping Weight
	Lit	ers	Nat. kW Input	LP kW Input	Na Lite Ho	rs/	LP Lite Hou	rs/	Conn. mm.	mm.	mm.	Conn. mm.	Gas Conn. mm.	Exchanger Inlet mm.	Exchanger Outlet mm.	Top of Heater mm.	Water Conn. mm.	mm.	kg.
C-DW2-504T10FBN	17	0	19.1	17.9	26	5	25	0	1505	559	102	1270	330	780	1270	1432	1534	622	108
C-DW2-75T10BN	27	2	22.3	22.3	31	7	31	7	1581	660	102	1314	352	752	1314	1499	1600	772	136

Propane model features a Titanium Stainless Steel propane burner. For Propane (LP) models change "BN" to "SX".

* Based on manufacturers rated recovery efficiency.





Heat Ex Head	changer Loss	Heat Exchanger Head Loss					
GPM	Ft. of Hd. Loss	LPM	m of Hd. Loss				
2	0.15	7.6	0.0457				
5	0.94	18.9	0.2865				
8	2.40	30.2	0.7315				
10	3.75	37.9	1.1430				
12	5.40	45.4	1.6459				

Heat Exchanger Values*

Supply Temperature	140°F 60°	C 120°F	49°C	100°F	38°C
Return Temperature	120°F 49°	C 100°F	38°C	80°F	27°C
Differential	20°F 11°	C 20°F	11°C	20°F	11°C
Flow Rate 2	2.3 GPM 8.7 L	PM 3.4 GPM	12.9 LPM	4.4 GPM	16.7 LPM
Net Output 20,0	000 BTU/Hr. 5.9k	W 29,000 BTU/I	Hr. 8.5kW	38,000 BTU/Hr.	11.1kW

* These values were obtained using 180°F stored tank temperature. Net Output is the space heating capacity based on normal piping and pickup allowance of 15%.

Actual values may vary based on circulator flow rate, number of zones, water and space heating demands. Numbers subject to change.

GENERAL:

Meets NAECA Requirements.

All gas water heaters are certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa). All potable water connections are 3/4" NPT (19mm) on 11" (279mm) centers. All heat exchanger connections are 1" NPT (25mm). All gas connections 1/2" (13mm). All models design certified by CSA International (formerly AGA/CGA), ANSI Z21.10.1 and peak performance rated.

Suitable for Water (Potable) Heating and Space Heating.

Toxic chemicals, such as those used for boiler treatment, shall NEVER be introduced into the potable side of this system. The potable side 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.

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



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