

# Combi2<sup>®</sup>

## **Residential Atmospheric Vent Combi2<sup>®</sup>** Gas Water Heater System



### Photo is of C-DW2-504T10FBN

FEATURING:



The Combi2<sup>®</sup> FVIR Defender Safety System<sup>®</sup> Model Features (C-DW2-504T10FBN model only):

- Advanced ScreenLok® Technology Flame Arrestor Design—Flame arrestor is designed to prevent ignition of flammable vapor outside of the water heater.
- Resettable Thermal Switch—Proven and reliable bimetallic switch prevents burner and pilot operation in case of ongoing flammable vapors burning inside of the combustion chamber or restricted air flow.
- Maintenance Free—Regular cleaning of air inlet openings or flame arrestor is not required under normal conditions.
- Sight Window—Offers a view into the combustion chamber to observe the operation of the pilot and burner.

All Combi2<sup>®</sup> Models Feature:

- Bradford White ICON System<sup>®</sup>—Intelligent gas control with proven millivolt powered technology and built-in piezo igniter. A standard, off-the-shelf thermopile converts heat energy from the pilot flame into electrical energy to operate the gas valve and microprocessor. No need for external electricity.
  - Enhanced Performance Proprietary algorithms provide enhanced First Hour Rating and tighter temperature differential.
  - Advanced Temperature Control System Microprocessor controls burner operation for consistent and accurate water temperature levels up to 180°F (82°C).
  - Intelligent Diagnostics Exclusive multicolor LED light indicates operation status/service required.
- Internal Double Wall Heat Exchanger—Double wall 1½" (38mm) O.D. glass coated (Vitraglas<sup>®</sup>) 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.
- Factory Installed Hydrojet® Total Performance System—Sediment reducing device that also increases first hour rating of hot water while minimizing temperature build-up in tank.
- Vitraglas<sup>®</sup> Lining with Microban<sup>®</sup>—An exclusively engineered enamel formula that provides superior tank protection from the corrosive effects of water; and with Microban<sup>®</sup> antimicrobial product protection to help prevent the growth of bacteria, mold and mildew on the surface of the tank lining.
- Insulation System—2" (51mm) Non-CFC foam insulation covers the sides and top of the tank, reducing heat loss. This results in less energy consumption, improved efficiencies, and jacket rigidity.
- Pedestal Base.
- Water Connections—3/4" (19mm) NPT factory installed true dielectric fittings.
- Two Protective Anode Rods.
- T&P Relief Valve—Installed.
- Low Restrictive Brass Drain Valve Durable tamper proof design.
- Thermostatic Mixing Valve (ASSE Approved) Included.

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

For more information on warranty, please visit 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.



Microban<sup>®</sup> antimicrobial product protection helps prevent the growth of bacteria, mold and mildew that may affect the product. The built-in antimicrobial properties do not protect users or others from disease-causing organisms. Microban<sup>®</sup> is a registered trademark of Microban Products Company.

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,682,666; 7,634,976; 5,660,165; 5,954,492; 6,056,542; 6,935,280; 5,372,185; 5,485,879; 5,574,822; 7,971,560; 7,992,526; 6,684,821; 6,442,178; 7,334,419; 7,866,168; 7,270,087; 7,007,748; 5,596,952; 6,142,216; 7,699,026; 5,341,770; 7,337,517; 7,665,5210; 7,0063,132; 7,7063,133; 7,559,293; 7,900,589; 5,943,984; 8,082,888; 5,988,117; 7,621,238; 7,650,859; 5,761,379; 7,409,925; 5,277,171; 8,146,772; 7,458,341; 2,262,174. OTHER U.S. AND FOREIGN PATENT APPLICATIONS PENDING. CURRENT CANADIAN PATENTS: 2,314,485; 2,504,824; 2,108,186; 2,143,031; 2,409,271; 2,548,958; 2,112,515; 2,476,685; 2,239,007; 2,002,105; 2,107,012. Combiling\*, Defaults\*, Defaults\*,

### Residential Atmospheric Vent Combi2® Gas Water Heater System

### Combi2<sup>®</sup> Models

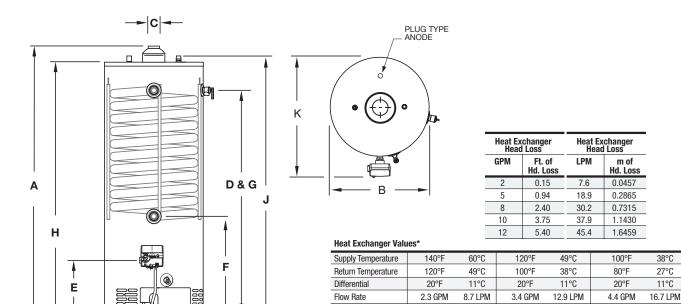
NATURAL GAS AND LIQUID PROPANE GAS

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed 80% Recovery Efficiency

Model Number	Capacity				Recovery 90°F 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.		Exchanger Inlet in.		Top of Heater in.	Water Conn. in.	in.	lbs.	
C-DW2-504T10FBN	45	38	65,000	61,000	70	59	66	55	59 <sup>1/4</sup>	22	4	50	13	277/8	50	563/8	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	51 <sup>3</sup> /4	59	63	30 3/8	302
Model	Capacity		Nat		Recovery 50°C Rise* Nat.			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 Water	K Depth	Approx. Shipping Weight
Number	-	-	Net	1.0	Ma				Flue			T&P	to	to	to	to	to	2 op	Weight
	Lite	rs	Nat. kW Input	LP kW Input	Na Lite Ho	it. rs/	LF Lite Ho	o rs/							to			mm.	Weight kg.
	Lite	-	kW	kW	Lite	it. rs/ ur	LF Lite	o rs/ ur	Flue Conn.	Dia.	Size	T&P Conn.	to Gas Conn.	to Exchanger Inlet	to Exchanger Outlet	to Top of Heater	to Water Conn.		Weight

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

\* Based on manufacturers rated recovery efficiency.



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

20,000 BTU/Hr. 5.9kW

allowance of 15%.

29,000 BTU/Hr. 8.5kW

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 and heat exchanger connections are 3/4" NPT (19mm) on 11" (203mm) centers. All gas connections 1/2" (13mm). All models design certified by CSA International (formerly AGA/ CGA), ANSI Z21.10.1 and peak performance rated.

Net Output

### 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 applications.

- BRADFORD WHITE IS -

AM<sup>™</sup>RICAN STRONG. Sales: 800-523-2931 = Fax 215-641-1612 24/7 Technical Support: 800-334-3393 = Email techserv@bradfordwhite.com Products made by Bradford White are manufactured in the United States using the finest raw materials and components from around the world.

38,000 BTU/Hr. 11.1kW