

BRADFORD WHITE®

Residential Energy Saver CombiCor® Direct Fired Gas Water Heater System

Features:



Bradford White is ISO registered to the 9001 standard.

- **2" Non-CFC foam insulation**—surrounds the tank surface, saving energy by retarding loss of heat.
- **Factory installed nipples**—for longer water heater life. Easier installation.
- **Fully automatic controls**—built-in energy cut-off switch prevents abnormally high water temperature for extra safety. Built-in gas pressure regulation.
- **Anti-scald device**—supplied with unit to help prevent injury due to scalding.
- **Vitraglas® lining**—Bradford White water heater tanks are protected from the corrosive effects of hot water by an exclusive ceramic porcelain-like coating. The Bradford White high silica Vitraglas® lining provides a tough interior surface for our hot water tanks.
- **Protective magnesium anode rod**—provides 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.
- **Factory installed Hydrojet® Total Performance System**—cold inlet sediment reducing device. Helps prevent sediment build up in tank. Increases first hour delivery of hot water while minimizing temperature build up at top of tank.
- **Heat exchanger – UltraCoil® Heat Transfer System**—dielectrically isolated, double wall type consisting of a highly conductive material with an NSF approved high density coating. Also, incorporates two monofilament channels between the walls for leak detection purposes. Leak detection hole is located at top of unit on both heat exchanger connections.
- **Brass drain valve.**
- **T&P relief valve**—installed.
- **Ten year limited warranty on steel tank and heat exchanger.**
- **Six year limited warranty on parts.**
- **Design certified by CSA International (formerly AGA/CGA).**

The Bradford White Defender Safety System™ Models (50 Gallon Model)

Features:

- **Piezo Igniter**—easy and quick lighting of the pilot burner by push button.
- **Advanced ScreenLok™ Technology Flame Arrestor Design**
- **Resettable Thermal Switch**—proven and reliable bimetallic switch prevents burner and pilot operation in case of ongoing flammable vapor burn inside of the combustion chamber or restricted air flow.
- **Pedestal Base**—Rugged and durable base allows easy transport and positioning, corrosion resistant contact with floor.
- **Maintenance Free**—No regular cleaning of air inlet openings or flame arrestor is required under normal conditions.
- **Sight Window**—Offers a view into the combustion chamber to observe the operation of the pilot and burner.

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS:
5,954,492; 5,761,379; 5,943,984; 5,081,696; 5,988,117; 6,142,216; 5,199,385;
6,684,821; 5,574,822; 5,372,185; 5,485,879; 5,277,171; (B1)5,341,770; 5,660,165;
5,596,952; 5,682,666; 4,904,428; 5,023,031; 5,000,893; 4,669,448; 4,829,983;
4,808,356; 5,115,767; 5,092,519; 5,052,346; 4,416,222; 4,628,184; 4,861,968;
4,672,919; Re. 34,534. OTHER U.S. AND FOREIGN PATENT APPLICATIONS
PENDING. CURRENT CANADIAN PATENTS: 1,272,914; 1,280,043; 1,289,832;
2,045,862; 2,112,515; 2,108,186; 2,107,012.

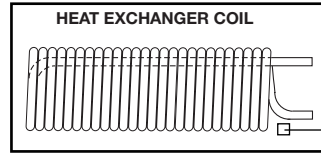
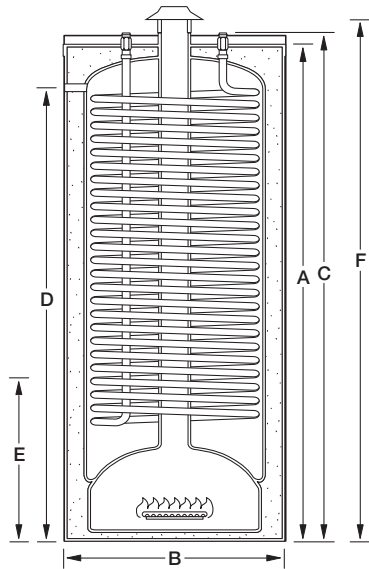


Photo is of M2-C-504T10FBN

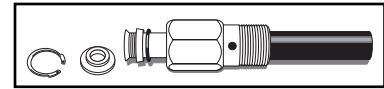
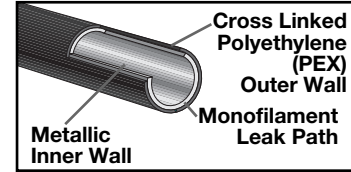
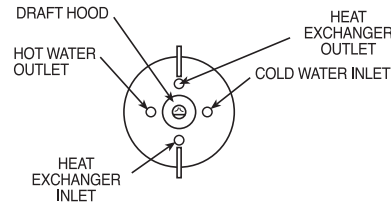
Residential Energy Saver CombiCor® Direct Fired Gas Water Heater System

Energy Saver Models

These water heaters meet or exceed the performance standards established under ASHRAE Standard 90.1b (current standard). Defender Safety System 50 gallon model meets ANSI Standard Z21.10.1a.



TOP VIEW



Dielectric Waterway Fitting

CombiCor® Energy Saver Models

(Meet or exceed ASHRAE 90.1b Current Standard).
Meets C.E.C. Requirements.

Mode Number	Imp. Gal. Cap.	U.S. Gal. Cap.	Liters/ Hour	Nat. & LP Gas		A		B		C		D		E		F				Approx. Shipping Weight	
				BTU Input	KW Input	Ht. in.	mm	Jacket Dia. in.	mm	Top Water Conn. in.	mm	T&P Conn. in.	mm	Gas Conn. in.	mm	Top Vent Ht. in.	mm				
M2-C-504T10FBN ^(L^P)	39	46.5	176	65,000	19.1	55¼	1403	22	559	56	1422	50	1270	13	330	59¼	1505	4	102	174	79
M2-C-75T10BN	61	73.5	278	76,000	22.3	60¼	1530	26	660	61¼	1556	53	1346	16½	419	63¾	1619	4	102	303	137

All LP Gas models are equipped with cast iron burner. To order an LP Gas model change suffix "BN" to "CX".

General

All units are certified at 300 PSI (2068 kPa) test pressure and 150 PSI (1034 kPa) working pressure. All potable water and heat exchanger connections are 3/4" (19mm) on 11" (279mm) centers. Gas connections on both models are 1/2" (13mm).

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

Recoveries and First Hour Delivery Rating are based on Thermal Efficiencies ranging up to 82%.

150 PSI (1034 kPa) Working Pressure, 300 PSI (2068 kPa) Test Pressure.

	M2-C-504T10FBN			M2-C-75T10BN		
Input	65,000 BTU/H 19.1KW			76,000 BTU/H 22.3KW		
Water Heating						
CA_{EFF}	.55			.52		
Thermal Efficiency	DNA			82.6		
First Hour Rating	83 Imp.GPH	100 Gal.	379 Liters/H	109 Imp.Gal.	131 Gal.	496 Liters/H
Rec. Rate 90°F Rise and 50°C Rise	56 Imp.GPH	67 GPH	254 Liters/H	70 Imp.Gal.	85 GPH	322 Liters/H
Space Heating						
CA_{AFUE}%	80.0			82.4		
Max. Heating Capacity*	50,000 BTU/H 14.7KW			62,000 BTU/H 18.2KW		

⊕ Based on ANSI Z21.10.1a 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.

6-Year Limited Warranty on Component Parts

BRADFORD WHITE CORPORATION has a 6-year warranty on replaceable parts – thermostat, dip tube, drain valve. These quality components are manufactured for us by industry leaders and will be replaced in the event of failure during the parts warranty period (exclusive of shipping and re-installation cost.)§

10 Year Limited Tank and Heat Exchanger Warranties

BRADFORD WHITE CORPORATION LIMITED WARRANTY: Protects your investment in a quality glass-lined water heater and double wall heat exchanger. If the tank or heat exchanger leaks for reasons of faulty materials, workmanship, or corrosion within the warranty period, the entire unit will be replaced with a comparable unit of our manufacture (exclusive of shipping and re-installation cost.)§

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

CombiCor®, Vitraglas®, Hydrojet® and UltraCoil® are registered trademarks of Bradford White® Corporation.

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⊕LP Gas Inputs	RECOVERY AT 50°C 1ST HR. DEL.			AND 90°F RISE		
	Imp. Gal.	U.S. Gal.	Liters	Imp. Gal.	U.S. Gal.	Liters
M2C504T10FCX 61,000 BTU/H 17.9 KW	77	92	348	54	65	246



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

Fax on Demand:
888-538-7833

www.bradfordwhite.com



Sales/866-690-0961
905-238-0100

Fax/905-238-0105

Technical Support/800-334-3393

www.bradfordwhitecanada.com