



Combi2™ TTW®

Residential Power Vent Combi2™ TTW® Energy Saver Gas Water Heater System



Photo is of
C-DW2-TW50T10FBN

The Combi2™ TTW® FVIR Defender Safety System® Models Feature (50T model, only):

- **Advanced ScreenLok® Technology Flame Arrestor Design**—Flame arrestor is designed to prevent ignition of flammable vapor outside of the water heater.
- **Flammable Vapor Sensor**—Electronic sensor prevents burner operation if flammable vapors are detected. The sensor will also prevent operation if there is ongoing flammable vapor burn inside the combustion chamber.
- **Maintenance Free**—Regular cleaning of air inlet openings or flame arrestor is not required under normal conditions.
- **Sight Window**—Offers a view of the pilot and burner operation.
- **Pedestal Base**—Rugged and durable base allows easy transport and positioning, and provides corrosion resistant contact with floor.

All Combi2™ TTW® Models Feature

- **Heat Exchanger**—Double wall 1½" O.D. glass coated (Vitraglas®) steel coil ensures separation of potable water and heating fluid.
- **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.
- **Factory installed Hydrojet® 2™ Total Performance System**—Cold water inlet sediment reducing device helps prevent sediment build up in tank. Increases first hour delivery and minimizing temperature build up in tank.
- **Vitraglas® Lined Tank**—Bradford White tanks are protected from the corrosive effects of hot water by an exclusive ceramic porcelain-like coating.
- **Electronic Gas Control Valve**—The integrated, immersion gas control valve offers precise temperature control for higher first hour delivery and also allows water temperature adjustment without removing the cover. Control is equipped with an LED display to aid in start-up and diagnostics.
- **Spark to Pilot Ignition System**—Eliminates the constant burning pilot used on other water heaters.
- **Powerful Blower Motor**—Our design has higher torque for greater resistance to outside winds and the power to eliminate problems with difficult venting situations. This significantly quieter motor runs cooler for a considerably longer operational life.
- **Horizontal and Vertical Venting**—With 3" or 4" PVC, ABS OR CPVC (Maximum equivalent vent length on reverse side).
- **Thermostatic Mixing Valve**—Supplied to help prevent injury due to scalding.
- **Two Protective Aluminum Anode Rods**—Provide added protection against corrosion for long trouble-free service.
- **2" Non-CFC Foam Insulation**—Surrounds the tank surface, saving energy by retarding loss of heat.
- **Water Connections**—3/4" NPT factory installed true dielectric fittings.
- **Steel Tank**—Heavy gauge steel automatically formed, rolled and welded.
- **T&P Relief Valve**—Installed.
- **Brass Drain Valve.**
- **Design Certified by CSA International (formerly AGA and CGA).**

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.



Bradford White received the highest numerical score among water heater/boiler manufacturers in the proprietary J.D. Power and Associates/ McGraw-Hill Construction 2006 HVAC and Water Heater/Boiler Subcontractor Satisfaction Study™. Study based on 882 responses measuring 3 water heater/boiler manufacturers and measures opinions of subcontractors. Proprietary study results are based on experiences and perceptions of subcontractors surveyed in May through July 2006. Your experiences may vary. Visit jdpower.com

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 7,063,133 B2; 5,954,492; 5,761,379; 5,943,984; 5,081,696; 5,988,117; 6,142,216; 5,199,385; 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; 2,092,105.

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Residential Power Vent Gas Water Heater System



Combi2™ TTW® Energy Saver Models

NATURAL GAS AND LIQUID PROPANE GAS

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

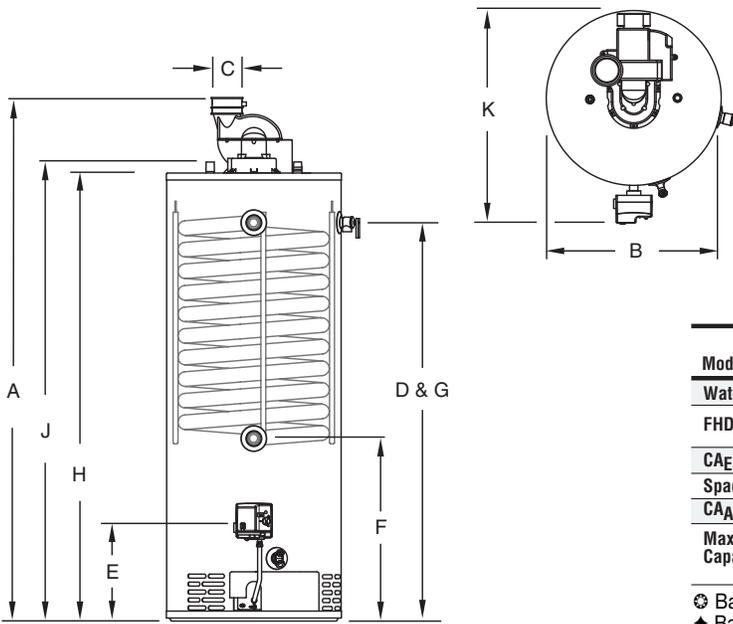
Model Number	Capacity		Nat. BTU/Hr. Input	LP BTU/Hr. Input	Recovery 90°F Rise*				A Floor to Vent Conn. in.	B Jacket Dia. in.	C Vent Size in.	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Exchanger Inlet in.	G Floor to Exchanger Outlet in.	H Floor to Heater Top in.	J Floor to Water Conn. in.	K Depth in.	Approx. Shipping Weight lbs.
	U.S. Gal.	Imp. Gal.			Nat. U.S. GPH	Imp. GPH	U.S. GPH	LP GPH											
C-DW2-TW50T10FBN	45	38	67,000	60,000	72	60	65	54	65%	22	3	50%	11%	28	50%	56%	57%	26%	245
C-DW2-TW75T10BN	72	61	76,000	75,500	82	69	81	67	69%	26	3	53	15	30%	53	60%	61%	31	335

Model Number	Capacity		Nat. kW Input	LP kW Input	Recovery 50°C Rise*		A Floor to Vent Conn. mm.	B Jacket Dia. mm.	C Vent Size mm.	D Floor to T&P Conn. mm.	E Floor to Gas Conn. mm.	F Floor to Exchanger Inlet mm.	G Floor to Exchanger Outlet mm.	H Floor to Heater Top mm.	J Floor to Water Conn. mm.	K Depth mm.	Approx. Shipping Weight kg.
	Liters				Nat. Liters/Hour	LP Liters/Hour											
C-DW2-TW50T10FBN	170		19.6	17.5	272	246	1673	559	76	1273	298	711	1273	1432	1467	679	111
C-DW2-TW75T10BN	272		22.3	22.1	310	306	1772	660	76	1346	389	784	1549	1530	1562	787	152

All Propane heaters are equipped with a cast iron burner. To order a Propane heater change suffix "BN" to "CX".

*Based on manufacturers rated recovery efficiency.

110 V.A.C Required for Power Venting / 110 V.A.C., 60HZ, 3.1 Amperes.



Note: (C-DW2-TW75T will not have a pedestal base)

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

	3" Vent Pipe	4" Vent Pipe
Max. Equivalent Length	†60 ft.**	†180 ft.
Min. Equivalent Length	7 ft.	15 ft.
Number of 90° Elbows	1 2 3	175 ft. 170 ft. 165 ft.

Subtract 5ft. for each additional 90° elbow.
†For high altitude installations, consult the installation instructions.

**C-DW2-TW75T maximum 3" vent length is 50ft.

Model Number	C-DW2-TW50T10		C-DW2-TW75T10	
	FBN	FCX	BN	CX
Water Heating				
FHD	105 U.S. Gal.	98 U.S. Gal.	135 U.S. Gal.	133 U.S. Gal.
CA _{EF}	.65	.65	.64	.64
Space Heating				
CA _{AFUE} %	82.0	82.0	82.0	82.0
Max. Heating Capacity	55,000 BTU/Hr. (16.1 kW)		55,000 BTU/Hr. (16.1 kW)	

⊗ Based on ANSI Z-21.10.1 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

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 Z-21.10.1 and or 10.3 and peak performance rated.

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

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