

EcoStor2™ SC Solar Indirect System Single Coil Power Vent Gas Backup Models



Photo is of
S-DW2-TW-65T6FBN

FEATURING:



AIR



LLC - Low
Lead Content

The EcoStor2™ Single Coil Defender Safety System® Models feature:

- **Backup Low NOx Burner**—To activate burner, a thermistor temperature sensor is located in the upper portion of the tank to promote greater solar operation efficiency.
- **Internal Double Wall Heat Exchanger**—1½" O.D. glass coated (Vitrage®) steel coil ensures separation of potable water and heating fluid.
 - **¾" NPT Solar Collector Supply and Return Connections.**
- **Sensor Wires for Solar Thermistor Connections**—Twisted wires are provided under the Upper and Lower covers (Thermistors and Solar Controller are not provided).
- **Honeywell Self Diagnostic Electronic Gas Control**—Intelligent gas control with spark to pilot ignition system that eliminates the constant burning pilot. This results in savings of pilot gas during stand-by periods (120 V.A.C.).
 - **Advanced Temperature Control System**—Microprocessor constantly monitors and controls burner operation to maintain accurate water temperature levels.
 - **Intelligent Diagnostics**—An exclusive green LED light prompts the installer during start-up and provides ten different diagnostic codes to assist in troubleshooting.
 - **Pilot On Indication**—Flashing green LED provides positive indication that pilot is on.
- **Defender Safety System® (S-DW2-TW-50 & S-DW2-TW-65 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**—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.
- **Powerful Blower Motor**—Our significantly quiet design has greater resistance to outside winds and the power to vent in many difficult venting situations.
- **Horizontal and Vertical Venting**—With 3" or 4" PVC, ABS or CPVC (Maximum equivalent vent lengths on reverse side).
- **Factory Installed Hydrojet® Total Performance System**—Cold water inlet sediment reducing device helps prevent sediment build up in tank and increases first hour delivery of hot water while minimizing temperature build up in tank.
- **Vitrage® 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 (Vitrage®) is fused to the steel surface by firing at a temperature of over 1600°F (871°C).
- **2" Non-CFC Foam Insulation**—Covers the sides and top of 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.
- **Two Protective Anode Rods.**
- **T&P Relief Valve**—Included.
- **Low Restriction Brass Drain Valve**—Durable tamper proof design.
- **Thermostatic Mixing Valve (ASSE Approved)**—Included.

6 Year Limited Tank Warranty / 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.

EcoStor2™ Indirect Water Heater System

Single Coil Gas Backup Models

NATURAL GAS AND LIQUID PROPANE GAS

Meet or exceed ASHRAE 90.1b (current standard)
80% Recovery Efficiency

Model Number	Capacity				Recovery at 90°F Rise*				A Floor to Flue Conn.	B Jacket Dia.	C Vent Size	D Floor to T&P Conn.	E Floor to Gas Conn.	F Floor to Top of Heater	G Floor to Water Conn.	H Floor to Solar Collector Supply in.	J Floor to Solar Collector Return in.	K Depth	Approx. Shipping Weight
	U.S. Imp. Gal.	Imp. Gal.	Nat. BTU/Hr. Input	LP BTU/Hr. Input	Nat. U.S. Imp. GPH	Nat. U.S. Imp. GPH	LP U.S. Imp. GPH	LP U.S. Imp. GPH	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	lbs.
S-DW2-TW-50T6FBN	45	38	67,000	60,000	72	60	65	54	59 1/4	22	3 or 4	50	11 3/8	56	60	32 1/4	10 1/8	26	247
S-DW2-TW-65T6FBN	60	50	70,000	63,000	75	62	68	57	63	24	3 or 4	53 1/2	11 3/8	59 1/2	63 1/4	32 1/4	10 1/8	28	281
S-DW2-TW-75T6BN	70	58	76,000	75,500	82	68	81	67	62 3/8	26	4	52	14 3/8	59	62 3/4	34 5/8	12 1/2	30 3/8	336

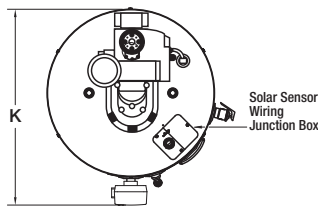
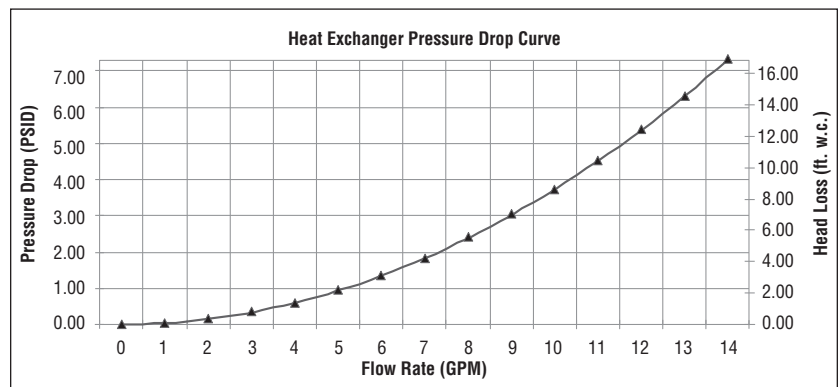
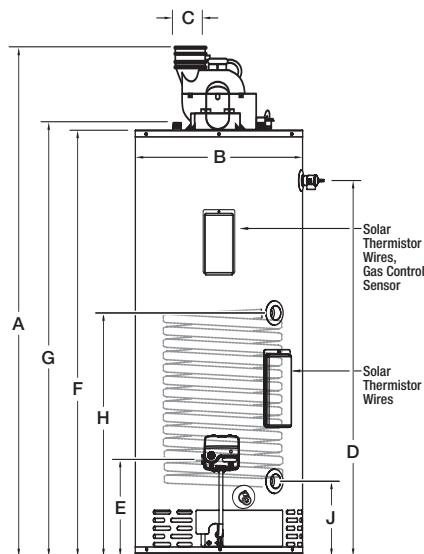
Model Number	Capacity				Recovery at 50°C Rise*				A Floor to Flue Conn.	B Jacket Dia.	C Vent Size	D Floor to T&P Conn.	E Floor to Gas Conn.	F Floor to Top of Heater	G Floor to Water Conn.	H Floor to Solar Collector Supply mm.	J Floor to Solar Collector Return mm.	K Depth	Approx. Shipping Weight
	Liters	Liters	Nat. kW Input	LP kW Input	Nat. Liters/Hour	Nat. Liters/Hour	LP Liters/Hour	LP Liters/Hour	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	kg.
S-DW2-TW-50T6FBN	170	170	19.6	17.6	273	246	273	246	1505	559	76 or 102	1270	289	1422	1524	819	257	660	112
S-DW2-TW-65T6FBN	227	227	20.5	18.5	284	257	284	257	1600	610	76 or 102	1359	289	1511	1607	819	257	711	127
S-DW2-TW-75T6BN	265	265	22.3	22.1	310	307	310	307	1584	660	102	1321	365	1499	1594	879	318	772	152

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

*Based on manufacturers rated recovery efficiency.

110 V.A.C. required for power venting.

110 V.A.C. 60HZ 3.1 Amperes.



S-DW2-TW50T6FBN S-DW2-TW65T6FBN	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 55 ft. 2 50 ft. 3 45 ft.	175 ft. 170 ft. 165 ft.

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

** S-DW2-TW-75 Max. 3" vent length is 50 ft.

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 electrical connections are 3/4" NPT (19mm) on 11" (279mm) centers. All models design certified by CSA International (formerly AGA/CGA), ANSI Z-21.10.1 and 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 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.



Ambler, PA

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

BRADFORD WHITE-CANADA INC. Sales / Technical Support 866-690-0961 / 905-238-0100 • Fax 905-238-0105 / www.bradfordwhite.com

Built to be the Best™

©2014, Bradford White Corporation. All rights reserved.