



Solar Water Heating Solutions

Built To Be The Best™

Featuring:

EcoStor™ SC Solar Indirect System Single Coil Electric Backup
EcoStor2™ SC Solar Indirect System Single Coil Electric Backup
EcoStor™ DC Solar Indirect System Dual Coil Heat Exchanger Backup
EcoStor2™ SC Solar Indirect System Single Coil Gas Backup
EcoStor2™ SC Solar Indirect System Single Coil Power Vent Gas Backup
EcoStor2™ SC Solar Indirect System Single Coil Eco-Defender Gas Backup
Solar Saver Models





SOLAR WATER HEATERS

FROM BRADFORD WHITE

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SOLAR WATER HEATING

Green Technology – Bradford White’s innovative line of water heaters feature Eco-Friendly Solar products that save money and conserve energy. This focus on Eco-Friendly Solutions has allowed us to offer one of the most extensive solar water heating lines for any solar heating application.

SOLAR MODEL FEATURES

Integrated Mixing Device

Allows water in the tank to be stored at higher



temperatures (up to 180°F) while controlling the hot water outlet temperature to a safe and comfortable level.

The integrated mixing device

further enhances the performance of the EcoStor™ and EcoStor2™ models by improving the blend factors (ratio of stored hot water in the tank to cold water supply) used to bring the outlet water temperature down to the desired set point.

Internal Heat Exchanger

This proven heat exchanger design has been utilized for years on our successful PowerStor™ and PowerStor2™ Series Indirect Models. The coil is glass lined (Vitrage®), carbon steel, with an O.D. dimension of 1½". Because of the size of the coil, a much smaller, less expensive pump can be installed. Also, because of the material and thickness of the coil, maximum supply temperatures can be upwards of 250°F. Single wall heat exchanger models have 1" NPT fittings and double wall heat exchanger models have ¾" NPT fittings.



Vitrage® Lining

The best tank lining available. Bradford White tanks are lined with an exclusively engineered enamel formula that

provides superior 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.



Sensor Wires for Solar Thermistor Connections

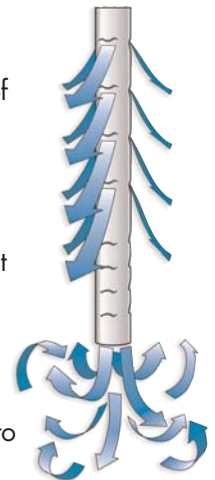


Twisted thermistor wires are provided under the lower and upper covers. Lower thermistor wires connect to a thermistor

(not provided) that when used in conjunction with a solar controller, senses lower tank temperature. If need be, and if the solar controller has the option, upper thermistor wires can connect to a thermistor (not provided) to sense upper tank temperature.

Hydrojet® Technology

The Hydrojet® system, with a series of concentric "jet ports", creates an incredible amount of turbulent action inside the tank. The result is efficient water mixing and a water heater that doesn't work as hard, or as often, to maintain a maximum supply of hot water. This also keeps the internal heat exchange coil free of sediment to maximize heat transfer efficiency.



ECOSTOR™ SC SOLAR INDIRECT SYSTEM

Single-Wall Single Coil Electric Backup Models



These Solar models feature an internal single-wall heat exchanger that allows heated water from a solar collector to flow through the coil, transferring heat to the surrounding water.

To maximize heating efficiency, a dual, or single backup heating element provides heat only when solar energy does not satisfy domestic hot water demand. Dual element models allow the entire tank to hold hot water during periods where solar heating is not available.

- 3 Capacities (60, 75 and 115 gallon).
- Heat Exchanger—Single Wall 1½" O.D. glass coated (Vitraglas®) steel coil.
- Backup Element(s)—Dual, or single, 4500w heating element (optional 5500w element(s)).
- Supply and Return Connections—1" NPT.



ECOSTOR2™ SC SOLAR INDIRECT SYSTEM

Double-Wall Single Coil Electric Backup Models

These models are similar to the EcoStor™ SC except the EcoStor2™ SC features an internal double-wall heat exchanger.



This type of design provides additional protection that is required in certain municipalities and applications because it ensures separation of the surrounding water from the solar heating fluid.

- 3 Capacities (60, 75 and 115 gallon).
- Heat Exchanger—Double Wall 1½" O.D. glass coated (Vitraglas®) steel coil.
- Backup Element(s)—Dual, or single, 4500w heating element (optional 5500w, element(s)).
- Supply and Return Connections—¾" NPT.





ECOSTOR™ DC SOLAR INDIRECT SYSTEM

Dual Coil Heat Exchanger Backup Models

This advanced dual heat exchanger design provides superior installation flexibility by allowing combination heat source systems the ability to operate independently, or at the same time with each other. The top heat exchange coil is single-wall and the lower heat exchange coil is double-wall. Typical applications are solar, boiler, wood burner, geothermal or space heating.

- 3 Capacities (55, 70 and 110 gallon).
- Dual Coil Design—A single wall, 1½" O.D. glass coated (Vitraglas®) carbon steel heat exchanger is located in the upper portion of tank and provides enhanced heat transfer capability. A double wall, 1½" O.D. glass coated (Vitraglas®) carbon steel heat exchanger is located in the lower portion of tank and provides additional protection between the heating fluid and surrounding potable water.
- Supply and Return Connections—Upper heat exchanger has 1" NPT female connections. Lower heat exchanger has ¾" NPT female connections.

ECOSTOR2™ SC SOLAR INDIRECT SYSTEM

Double-Wall Single Coil Gas Backup Models



This intelligent design utilizes a low NO_x gas burner as a backup when periods of supplied solar energy does not meet the required domestic hot water demand. To activate the burner, a thermistor temperature sensor is located in the upper portion of the tank to promote greater solar operation efficiency. A double wall heat exchanger is located in the lower portion of the tank to optimize solar heating performance and to provide additional protection between the surrounding water and solar heating fluid. Also, a draft diverter is utilized, providing an easy replacement for existing atmospheric vent water heaters.

- 3 Capacities (45, 60 and 70 gallon).
- Input Ranges: 61,000 - 76,000 BTU/hr.
- Natural Gas or Propane Gas.
- FVIR Defender Safety System® on models 75,000 BTU/hr and below.
- 4" Snap Lock Draft Diverter.
- Honeywell Self Diagnostic Gas Control- Intelligent gas control with proven millivolt powered technology and built-in piezo igniter.
- Heat Exchanger-Double Wall 1½" O.D. glass coated (Vitraglas®) steel coil.
- Supply and Return Connections—¾" NPT.

ECOSTOR2™ SC SOLAR INDIRECT SYSTEM

Double-Wall Single Coil Power Vent Gas Backup Models

The Power Vent gas backup models utilize some of the same design features as the atmospheric vent models but incorporate a powerful, quiet blower motor for greater venting flexibility.



- 3 Capacities (45, 60 and 70 gallon).
- Input Ranges: 60,000 - 76,000 BTU/hr.
- Natural Gas or Propane Gas.
- FVIR Defender Safety System® on models 75,000 BTU/hr and below.
- Honeywell Self Diagnostic Electronic Gas Control-Intelligent gas control with spark to pilot ignition system that eliminates the constant burning pilot.
- Horizontal or Vertical Venting-With 3" or 4" PVC, ABS, or CPVC.
- Heat Exchanger-Double Wall 1 ½" O.D. glass coated (Vitraglas®) steel coil.
- Supply and Return Connections-¾" NPT.
- Accessory Packages Compatible-Works with Performance, Protection, and Inlet Shut-off Valve packages.

ECOSTOR2™ SC SOLAR INDIRECT SYSTEM

Double-Wall Single Coil Eco-Defender Gas Backup

The Eco-Defender gas backup models also utilize some of the same design features as the atmospheric vent models but incorporate the latest advances in technology and components to meet the most stringent air quality requirements for allowable NOx emissions in the country.

With 75% less NOx emissions and efficient water heating from the sun, these models have the most ecologically friendly features for any solar water heating application in the industry.

- 2 Capacities (45, and 60 gallon).
- Input Ranges: 40,000 - 55,000 BTU/hr.
- FVIR Eco-Defender Safety System®
- Ultra Low NOx Burner-Emits 75% less NOx emissions than standard models.
- Honeywell Self Diagnostic Gas Control-Intelligent gas control with proven millivolt powered technology and built-in piezo igniter.
- Heat Exchanger-Double Wall 1 ½" O.D. glass coated (Vitraglas®) steel coil.
- Supply and Return Connections-¾" NPT.





SOLAR SAVER MODELS

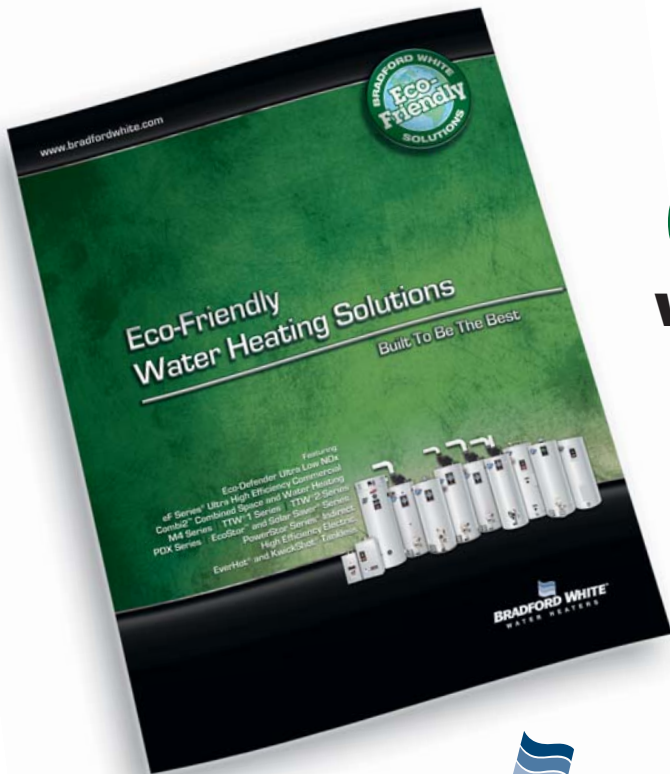
These models are appropriate for open system applications, where water from a solar collector is pumped into the tank, directly heating the potable water (no internal heat exchange coil).



For installation flexibility, alternate collector supply and return connections are provided on the 80 and 119-gallon models.

- 3 Capacities (60, 80 and 119 gallon).
- Pre-wired sensor lead
- Backup Element-A single 4500w 240v heating element.
- Supply and Return Connections- $\frac{3}{4}$ " NPT.

Please consult specification sheet and website for complete product specifications and additional information.



GO GREEN!

WITH BRADFORD WHITE

To see more of our entire line of Eco-Friendly water heaters, check out our **NEW** Eco-Friendly Water Heating Solutions brochure.


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