

RESIDENTIAL ELECTRIC INDIRECT SOLAR BOOSTER WATER HEATERS



SB6-80SOTX



Eligible for a 30% Federal Tax Credit when installed as part of a complete Premier® solar water heating system. For more information, visit www.statewaterheaters.com.

Premier® 80 and 120-gallon indirect solar booster water heaters are specially designed for installation as part of a closed loop solar water heating system. They provide storage for the hot water produced by the solar panels and a supplementary electric heating element that maintains consistent water temperature during periods when solar energy is not available. Count on State for products that provide hot water solutions for residential renewable energy applications.

INTERNAL HEAT EXCHANGER

- Single wall internal coil-type heat exchanger for the most efficient heat transfer from solar panels
- Suitable for propylene glycol heat transfer fluid with corrosion inhibitor

ELECTRICAL

- 4500 watt heating element – long lasting low-watt density design spreads wattage over larger surface area to prolong element life and maximize efficiency
- Prewired for surface mount temperature sensor (sensor supplied separately)

CONSTRUCTION

- Commercial grade glass lining (slush coated) – protects against corrosion to maximize tank life.
- 2 Inch thick “Environmentally-Friendly” Non-CFC Foam insulation (R16 Value) reduces standby heat loss

PEXAN™ DIFFUSER DIP TUBE

- Helps reduce lime and sediment buildup to maximize hot water output
- Made from long-lasting PEX cross-linked polymer

TWO PREMIUM ANODE RODS

- Primary and secondary magnesium anodes with stainless steel core protect tank against corrosion longer than ordinary anodes

FACTORY-INSTALLED CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE

DURABLE TAMPER-RESISTANT BRASS DRAIN VALVE

PEX-LINED, HEAT TRAP NIPPLES FOR EFFICIENCY

CODES AND STANDARDS

Complies with current editions of: UL Standard for Household Electric Storage Tank Water Heaters, UL 174; Canadian Standard for Construction and Test of Electric Storage-Tank Water Heaters, CAN/CSA-C22.2 No. 110-M90; Packaged Solar Domestic Hot Water Systems (Liquid-to-Liquid Heat Transfer) For All-Season Use, F379.1-09; Packaged Solar Domestic Hot Water Systems for Seasonal Use, F379.2-09 and ICC Codes and HUD Standards. Complies with California legislation AB 1953 and Vermont legislation Act 193 that limits the lead content in plumbing fixtures that come into contact with drinking water to a maximum of 0.25%.

6-YEAR LIMITED TANK AND PARTS WARRANTY

For complete information, consult written warranty supplied with the product or contact State Water Heaters

For more information on Solar Water Heaters, contact:

State Water Heaters
500 Tennessee Waltz Parkway
Ashland City, TN 37015
800-365-0024 Toll-free USA
www.statewaterheaters.com

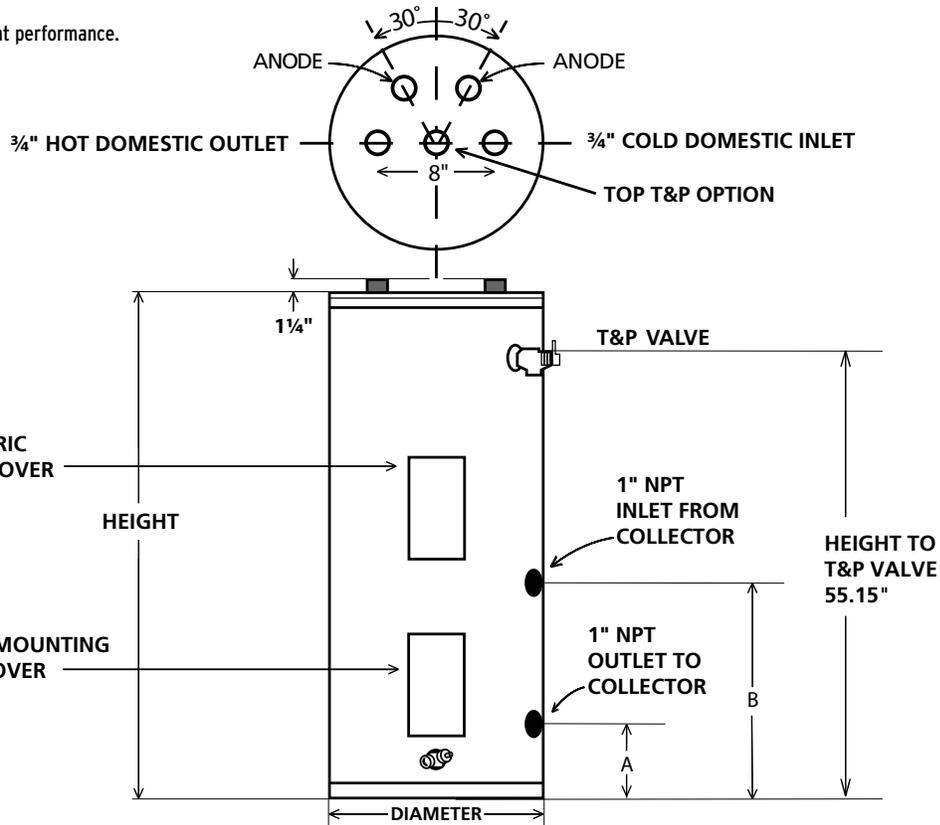
SOLID.STATE.



RESIDENTIAL ELECTRIC INDIRECT SOLAR BOOSTER WATER HEATERS

MODEL NUMBER	GALLON CAPACITY	ELEMENT WATTAGE (240 VOLT)	RECOVERY 90° RISE GALLONS PER HOUR	NUMBER OF ELEMENTS	FOAM THICKNESS (INCHES)	DIMENSIONS IN INCHES				APPROX. SHIPPING WEIGHT (LBS)
						HEIGHT	A	B	DIAMETER	
SB6 80 SOTX	76	4500	21	1	2	63-1/4	5-3/8	30-1/8	24	257
SB6 120 SOTX	108	4500	21	1	2	63-1/4	5-3/8	26-1/2	28	365

All dimension in inches.
 Recovery capacity based on element performance.
 Working Pressure = 150 PSI



HEAT EXCHANGE COIL DATA

MODEL NUMBER	TUBE I.D. (INCHES)	TOTAL SURFACE AREA (SQ. FT)	COIL CAPACITY (GALLONS)	TUBE LENGTH (FT)
SB6 80 SOTX	1.3	16	2.8	40.8
SB6 120 SOTX	1.55	18.8	4	41

PRESSURE DROP THROUGH COIL (FEET OF H ₂ O)		
FLOW RATE (GPM)	HEAD LOSS (FEET)	
	SB6 80 SOTX	SB6 120 SOTX
2	0.1	0.05
4	0.3	0.15
6	0.5	0.25

Heat exchanger must only be used with a propylene glycol heat transfer fluid containing corrosion inhibitors such as Dowfrost™ HD
 Working Pressure = 150 PSI

For complete information on limited warranties, consult written warranty or contact the State Customer Care Center at 1-800-365-0024.

State Industries, Inc., reserves the right to make product changes or improvements without prior notice.

For more information on Solar Water Heaters, contact:

State Water Heaters
 500 Tennessee Waltz Parkway
 Ashland City, TN 37015
800-365-0024 Toll-free USA
www.statewaterheaters.com

SOLID.STATE.

