



**SunEarth**  
Quality Solar Energy Products

## RESIDENTIAL ELECTRIC INDIRECT SOLAR BOOSTER WATER HEATERS

*6-Year Limited Tank /6-Year Limited Parts Warranty\**

SunEarth™ 80 and 120-gallon indirect solar booster water heaters are designed for installation as part of a closed loop solar water heating system. These models provide storage for the hot water produced by the solar collectors and a supplementary electric heating element that maintains consistent water temperature during periods when solar energy is not available.

### FEATURES

#### Internal Heat Exchanger

- Single wall internal steel heat exchange coil for the most efficient heat transfer from solar collectors
- Designed for propylene glycol heat transfer fluid with corrosion inhibitor

#### Electrical

- Low-watt density design spreads wattage over larger surface area to prolong element life and help maximize energy-efficiency
- Prewired for surface mount temperature sensor (sensor supplied separately)

**2-Inch Thick “Environmentally-Friendly” Non-CFC Foam Insulation (R16 Value) Reduces Standby Heat Loss**

#### Glass Tank Coating

- Glasslined Steel Tank – glasslining protects against corrosion to maximize tank life

#### Diffuser Dip Tube

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

#### Two 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; 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%.



Low Lead Content



Eligible for a 30% federal tax credit when installed as part of a complete solar water heating system.

\* For complete warranty information consult written warranty supplied with the product or call SunEarth at 909-434-3100.

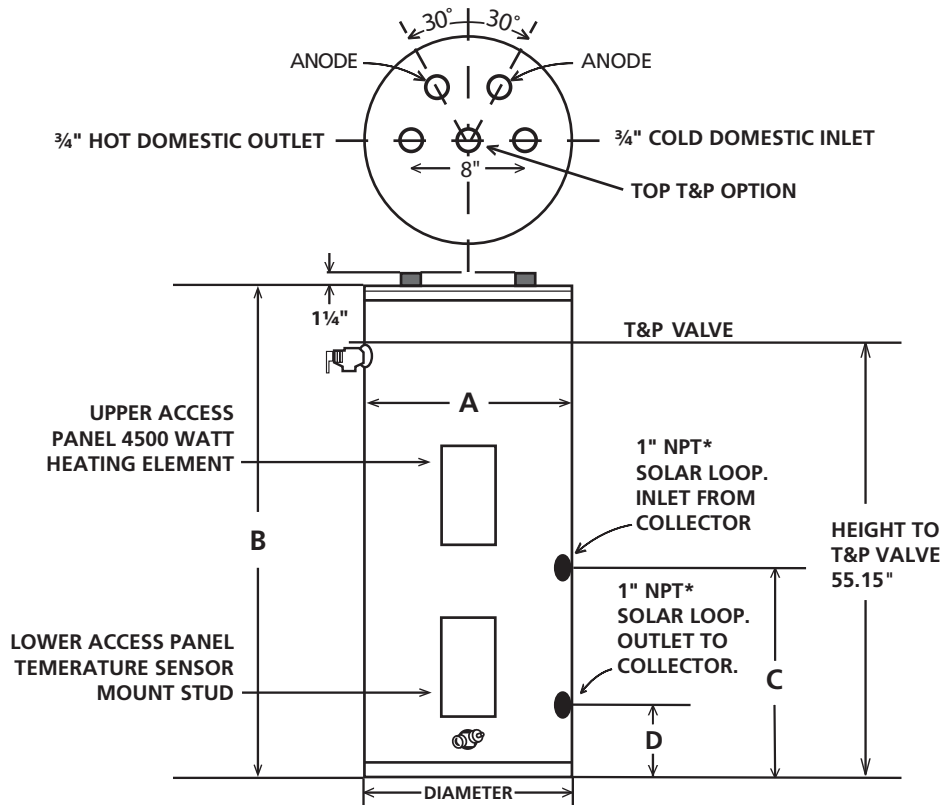


**SUN EARTH**  
Quality Solar Energy Products

# RESIDENTIAL ELECTRIC INDIRECT SOLAR BOOSTER WATER HEATERS

MODEL NUMBER	GALLON CAPACITY	NUMBER OF ELEMENTS	ELEMENT WATTAGE (240 VOLT)	RECOVERY GALLONS PER HOUR (90°F RISE)	GALLONS ABOVE ELEMENT	FOAM THICKNESS (INCHES)	HEIGHT TO WATER CONNECTION	JACKET DIAMETER A	HEIGHT TOP OF TANK B	OPTIONAL SOLAR IN/DOWN C	OPTIONAL SOLAR OUT/UP D	APPROX. SHIPPING WEIGHT (LBS)
SE80HX-6	76	1	4500	21	40	2	64-1/2	24	63-1/4	30-1/8	5-3/8	257
SE120HX-6	108	1	4500	21	60	2	64-1/2	28	63-1/4	26-1/2	5-3/8	365

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



\* Unit ships with 1" x 3/4" bushings in carton for 3/4" solar loop connections.

## INTERNAL HEAT EXCHANGE COIL DATA

MODEL NUMBER	TUBE I.D. (INCHES)	TOTAL SURFACE AREA (SQUARE FT)	COIL CAPACITY (GALLONS)	TUBE LENGTH (FT)
SE80HX-6	1.3	16	2.8	40.8
SE120HX-6	1.55	18.8	4	41

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

PRESSURE DROP THROUGH COIL (FEET OF H <sub>2</sub> O)		
FLOW RATE (GPM)	HEAD LOSS (FEET)	
	SE80HX-6	SE120HX-6
2	0.1	0.05
4	0.3	0.15
6	0.5	0.25

SE71302