



Residential Electric Indirect Solar Booster Water Heaters

RESIDENTIAL ELECTRIC INDIRECT SOLAR BOOSTER WATER HEATERS

A. O. Smith 80 and 120-gallon indirect solar booster water heaters are specially designed for installation as part of closed loop solar water heating system. They provide an energy-efficient supplementary source of water heating power and hot water storage to help maintain consistent water temperature during periods when the solar components cannot keep up with system demands. Count on A. O. Smith for innovative products that provide hot water solutions for residential renewable-energy applications.

INTERNAL HEAT EXCHANGER

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

LONG-LASTING LOW-WATT DENSITY COPPER HEATING ELEMENT

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

2 INCH-THICK ENVIRONMENTALLY FRIENDLY NON-CFC FOAM INSULATION FOR HIGH ENERGY-EFFICIENCY

PERMAGLAS® GLASS TANK COATING

- Patented PermaGlas lining helps maximize tank life against corrosion and buildup

DYNACLEAN™ DIFFUSER DIP TUBE

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

TWO COREGARD™ 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

6-YEAR LIMITED TANK AND PARTS WARRANTY

For complete information, consult written warranty or contact A. O. Smith Water Products Company



MODEL SUNX-80



**Qualifies for
Federal Tax credit
of 30% of the
project cost.**

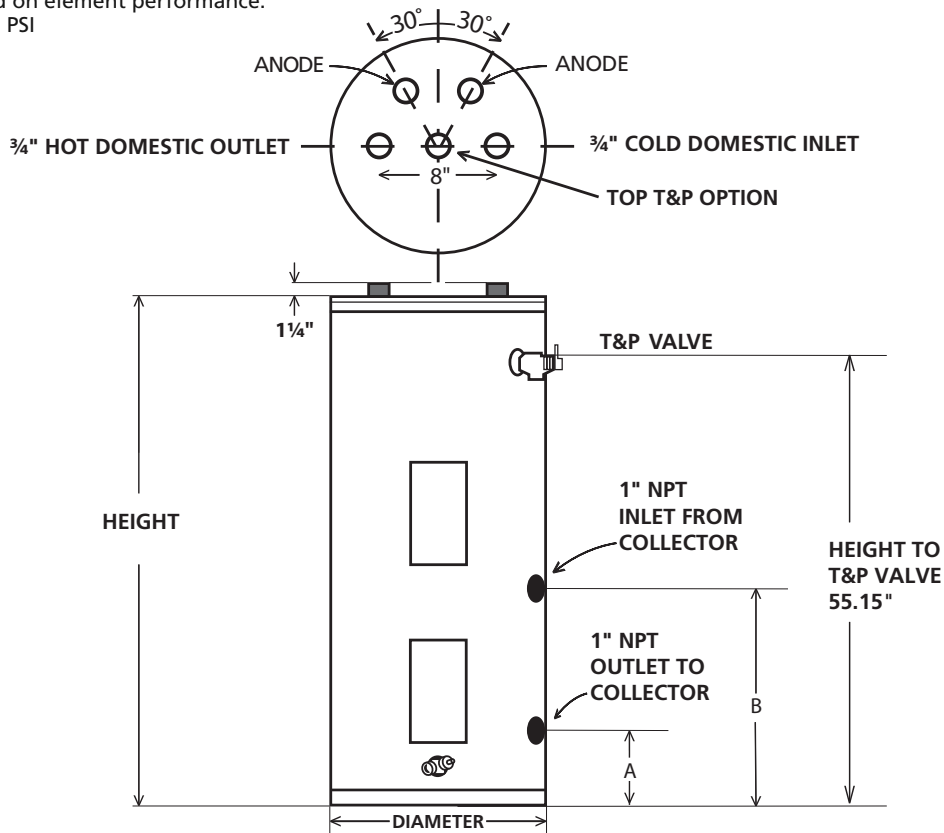


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MODEL NUMBER	GALLON CAPACITY	ELEMENT WATTAGE (240 VOLT)	RECOVERY 90° RISE GALLONS PER HOUR	NUMBER OF ELEMENTS	FOAM THICKNESS (INCHES)	DIMENSIONS IN INCHES				APPROX. SHIPPING WEIGHT (LBS)
						HEIGHT	A	B	DIAMETER	
SUNX-80	76	4500	21	1	2	63-1/4	5-3/8	30-1/8	24	257
SUNX-120	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)
SUNX-80	1.3	16	2.8	40.8
SUNX-120	1.55	18.8	4	41

PRESSURE DROP THROUGH COIL (FEET OF H ₂ O)		
FLOW RATE (GPM)	HEAD LOSS (FEET)	
	SUNX-80	SUNX-120
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