

### Product Description

Certified by the SRCC and UL, the TS-80-HP is a great choice for commercial and residential solar water heating projects. The system offers a 10-year factory warranty against manufacturer's defects on the evacuated tube collectors.



### Technical Specification

<b>Number of Evacuated Tubes</b>	30
<b>Length of Tubes</b>	1800 mm
<b>Outer Tube Diameter</b>	Ø58 mm
<b>Inlet and Outlet</b>	¾ inch MNPT
<b>Heating Element (UL)</b>	240V/2400W
<b>Absorbent Coating</b>	Graded Al-N / Al
<b>Absorbency</b>	> 92% (AM 1.5)
<b>Volumetric Capacity</b>	80 gallons
<b>Insulation</b>	PUF, 55 mm

<b>Aperture Area</b>	47.9 ft <sup>2</sup>
<b>Outer Tank</b>	304 Stainless Steel
<b>Inner Tank</b>	316 Stainless Steel
<b>Test Pressure</b>	175 PSI
<b>Working Pressure</b>	87 PSI
<b>Bracket Tilt Angle</b>	Flush Mount, 30°, 45°
<b>Weight Empty</b>	395 lbs
<b>Working Weight</b>	1055 lbs
<b>Bracket</b>	Aluminum/SS

### SRCC Lab Testing Data – Thermal Performance

Kilowatt-hours Per Panel Per Day				Thousands of BTU Per Panel Per Day			
Category (Ti-Ta)	Clear Day (6.3kWh / m <sup>2</sup> .day)	Mildly Cloudy (4.7kWh / m <sup>2</sup> .day)	Cloudy Day (3.1kWh / m <sup>2</sup> .day)	Category (Ti-Ta)	Clear Day (2000 Btu / ft <sup>2</sup> .day)	Mildly Cloudy (1500 Btu / ft <sup>2</sup> .day)	Cloudy Day (1000 Btu / ft <sup>2</sup> .day)
<b>A (-5°C)</b>	12.6	9.7	6.8	<b>A (-9°F)</b>	43.0	33.1	23.2
<b>B (5°C)</b>	11.3	8.5	5.6	<b>B (9°F)</b>	38.6	29.0	19.1
<b>C (20°C)</b>	9.5	6.6	3.7	<b>C (36°F)</b>	32.4	22.5	12.6
<b>D (50°C)</b>	5.7	2.9	0.0	<b>D (90°F)</b>	19.4	9.9	0.0
<b>E (80°C)</b>	2.0	0.0	0.0	<b>E (144°F)</b>	6.8	0.0	0.0

A – Pool Heating (Warm Climate) B – Pool Heating (Cool Climate) C – Water Heating (Warm Climate) D – Space & Water Heating (Cool Climate) E – Commercial Hot Water & Cooling