



# SUN EARTH

## THE SOLARSTATION HX

SOLAR PUMP STATION SPECIFICATION SHEET

### Applications



Solar Water Heating



### Technical Specifications

Model	100005-6
Maximum Collector Area	160 ft <sup>2</sup>
Maximum Nominal Pipe Size	3/4 in.*
Maximum Solar Plumbing Run	75 ft.
Maximum Static Head	n/a
Input Voltage	120 VAC
Maximum Pump Power	128 W
Maximum 1/2 in. Potable Run	50 ft.

\*40 square foot system uses 1/2 inch collector plumbing.

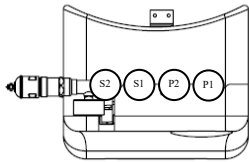
### Materials

Insulation: Expanded Polypropylene  
 Heat Exchanger: 316 Stainless Steel Plates  
 Plumbing: Type M Copper Pipe  
 Potable Pump: Stainless Wetting Surfaces  
 Solar Pump: Cast Iron Wetting Surfaces

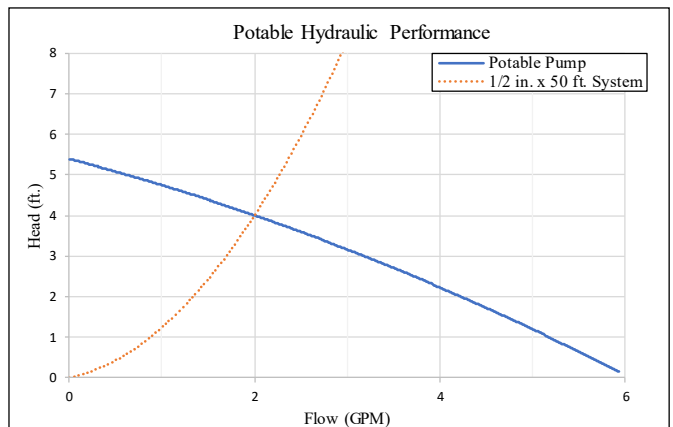
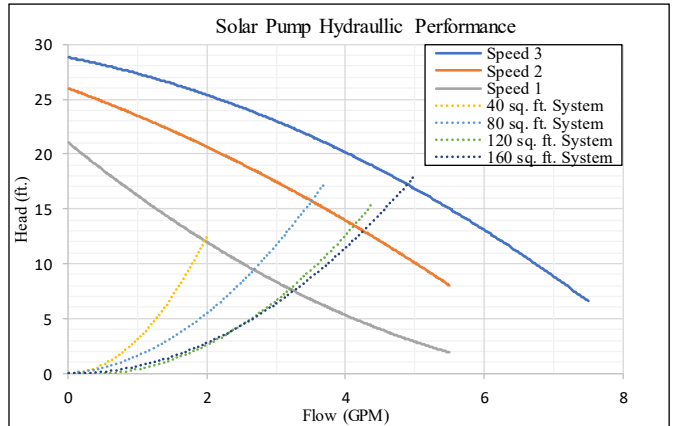
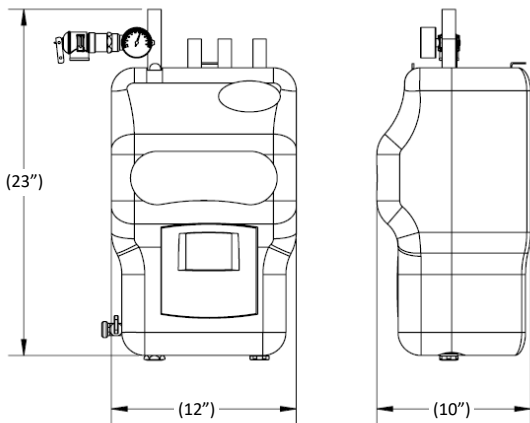
### Available Models

- 100005-6, Indirect Glycol

### Technical Information



- S2 SOLAR OUT
- S1 SOLAR IN
- P2 POTABLE OUT
- P1 POTABLE IN



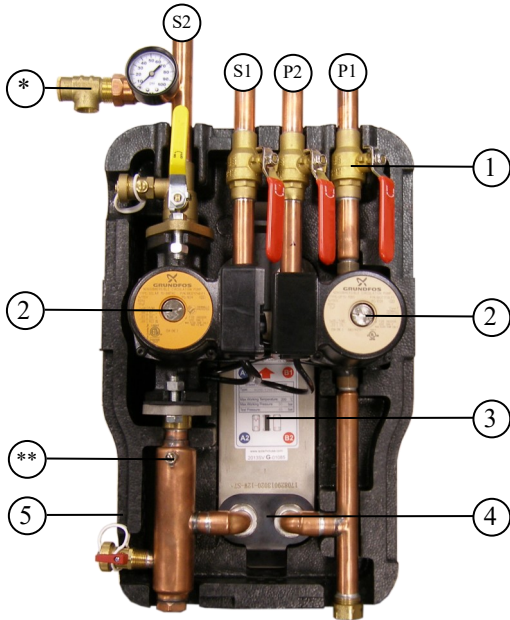
*Due to SunEarth's policy of continuous product improvement, specifications are subject to change without notice.*



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### Features & Components



\*Pressure relief and \*\*air separator on model 100005-6 only

S2 SOLAR SUPPLY S1 SOLAR RETURN P2 POTABLE SUPPLY P1 POTABLE RETURN

The SolarStation HX is SunEarth’s preferred residential solar thermal pump station. Multi speed pumps allow flow speed tuning for optimal performance. Strong soldered and gasketed connections extend product life. Completely contained unit can function with most tanks. Factory assembled and hydraulically tested to ensure leak free installation every time.

#### 1. SERVICE VALVES:

Ball drain valves eliminate dozens of leak paths, allowing for trouble-free flushing, draining and filling of Solar and potable circuits. Four service drains for easy heat exchanger flushing.

#### 2. PUMPS:

Wet-rotor type whereas the pump and motor form an integral unit without shaft seals. Solar and Potable pump utilize composite impellers

with cast-iron and stainless steel volutes respectively. Integrated check valves prevent unwanted heat migration and multiple speed settings provide the ability to tune the solar system for optimal operation rates.

#### 3. HEAT EXCHANGER:

Brazed Plate Heat Exchanger manufactured from corrosion resistant 316L Stainless Steel. Channel design promotes turbulent flow for superior heat transfer through a range of flow rates. Insulated cover ensures heat remains with the system for maximum efficiency. Built in stainless filters ensure scale is trapped in flush ports and is never introduced into the precision fluid channels of the heat exchanger.

#### 4. INTEGRATED MOUNTING BRACKETS:

Trouble-free installation with integrated mounting brackets. Quickly mount on a tank or a wall by installing solar station hanger. Simple enough for a single installer, robust design for longevity.

#### 5. INSULATION:

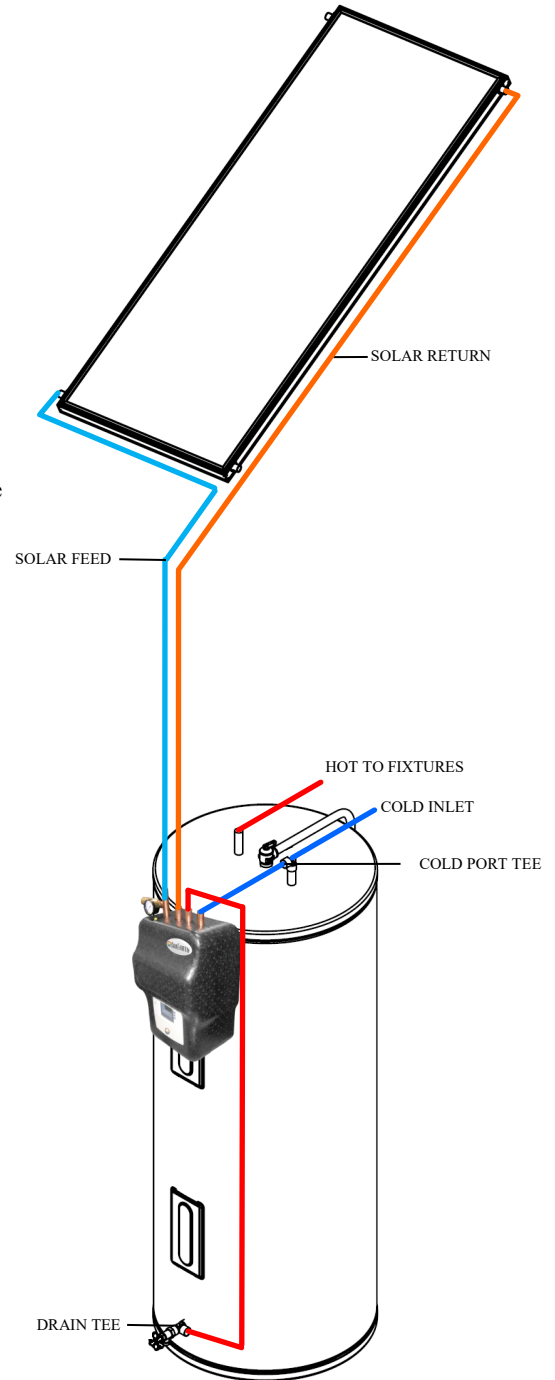
Custom expanded poly propylene cover minimizes system losses for maximum solar thermal efficiency.

#### 6. CONTROLLER:

Integrated controller operates the pumps through differential temperature algorithms, the Liquid Crystal Display (LCD) offers insight into the system operation and condition. The controller reports temperature readings from 3 locations with a differential controlled output.

#### 7. STANDARD AND SOLAR TANK INSTALLATIONS:

The new all inclusive Solarstation HX can be installed on standard tanks such as electric or natural gas as well as solar specific tanks. Perfect for quick and easy retrofits or new designs.



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