



SUN EARTH

THE SOLARSTATION

SOLAR PUMP STATION SPECIFICATION SHEET

Applications



Solar Water Heating



Complete Package Includes SolarStation, Differential Controller and Two Temperature Sensors

Technical Specifications

PART NUMBER	SRS-145-5.1
Maximum Collector Area	160 ft ²
Maximum Nominal Pipe Size	3/4 in.*
Maximum Solar Plumbing Run	75 ft.
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.

Expansion Tank Connectors*

Part Number	Description
PS-ETHA	Expansion Tank Hose Adaptor 3/4" female BSP x 1/2" male NPT is required to convert BSP for the expansion tank.

PS-ETCK **Expansion Tank Connection Kit** Includes: 18" of 3/4" flexible stainless steel hose; expansion tank mounting bracket; expansion tank service check valve with 3/4" FNPT termination.

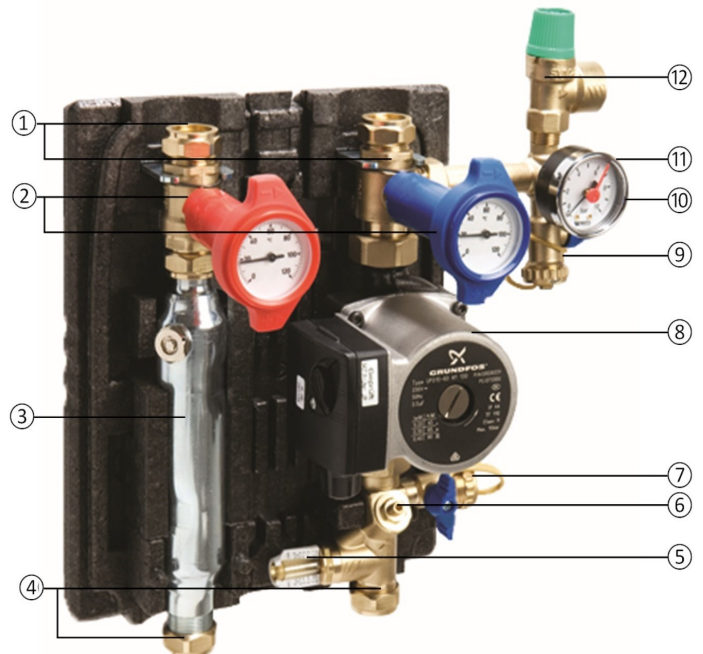
*A connector must be paired with the SolarStation.

Technical Information

No. Description

- 3/4" Typical Copper Fittings to Collector
- Combination Ball Valve & Check Valve with 45° Bypass
- Air Separator and Manual Air Vent
- 3/4" Typical Copper Fittings to Tank
- 0.5-4 GPM Flow Meter
- Balancing Valve
- 3/4" NHT Valve
- 3 Speed Cast Iron Pump
- 3/4" NHT Valve
- 0-145 PSI Pressure Gage
- Expansion Tank Connection 3/4" MBSP*
- 145 PSI Pressure Relief Valve

*Expansion tank connector is required.



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



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Features and Components:

The SolarStation is a pre-engineered assembly of quality components in a neat compact enclosure with an advanced differential controller. A simple, labor saving, attractive solution for closed loop glycol solar systems.

Cast iron three speed pump (115V-60Hz). Adjustable three speed pump provides flow rates across the range of SRCC OG-300 certified Solaray closed loop glycol systems. Includes line cord for connection to differential controller.

SunEarth differential controller, supplied with every SolarStation. Easy to read backlit LCD displays system operating temperatures at up to three locations. Includes line cord from controller to 120V outlet, providing plug and play installation and operation.

Compact insulated enclosure made of expanded polypropylene foam, designed for professional finished appearance and superior durability. Custom molded enclosure allows easy access to all piping connections. Removable cover is form fitted around temperature gauges for convenient system performance monitoring.

Combination brass ball valves and check valves with integrated thermometers, (32°F - 248°F scale). Valves are color coded - blue handle for supply to collectors, red handle for return from collectors. Spring check valve in supply and return ball valves. Check valves can be bypassed by turning the valve handle to the 45° position.

Balancing Valve and Flow Meter (0.5 - 4 GPM). Visual reading of system flow with balancing valve for quick and easy optimization of system flow rate. Air separator with air vent. Air separator tube removes air from flow during pump operation. Air is separated from main flow during system activation and maintenance, and can be expelled by opening air vent. Removal of air from flow reduces potential for air locks in system.

Pressure relief valve with pressure gage and expansion tank connection. Pressure relief valve set to discharge at 145 psi. Pressure gage scale is 0 - 145 psi (0 - 10 bar). Expansion tank connection is 3/4" male BSP.

Fill and drain valves with 3/4" hose thread. Located upstream and downstream of the pump for filling, purging and draining the glycol loop.

Compression fittings for 3/4" Type L copper. Top two compression fittings to connect to collectors, bottom two to connect to heat exchanger in tank.

Dimensions and Diagram:

