



SunEarth

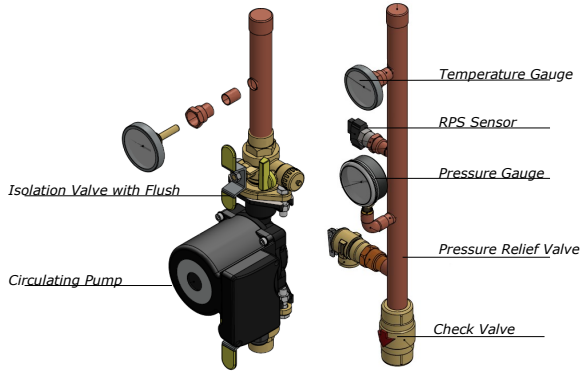
THE SOLARSTATION 1-LINE

SOLAR PUMP STATION **SPECIFICATION SHEET**

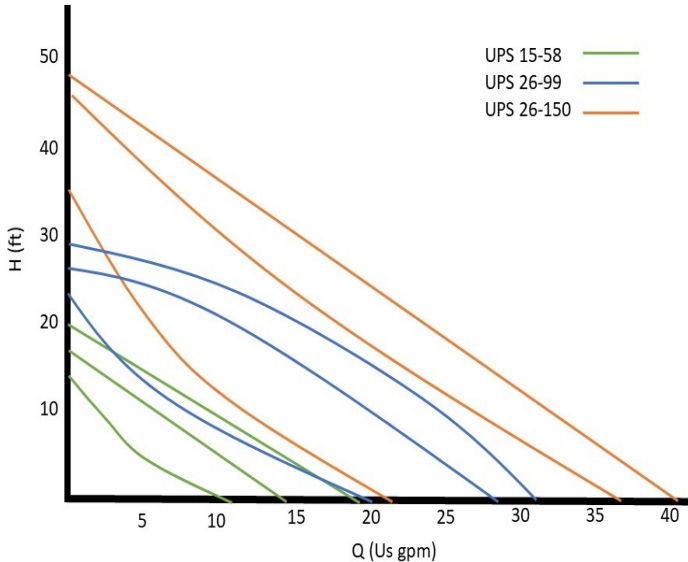
Applications



Solar Water Heating



Pump Performance Information:



General:

Designed utilizing multi-speed pumps for small and medium size projects, SunEarth's "SolarStation 1-Line" is a preassembled and dependable solution providing excellent manufacturing quality while saving time and preventing unexpected installation delays. The "SolarStation 1-Line" has been designed to be easily adapted to SunEarth solar storage tank manifolding system allowing for quick and efficient connecting solar storage tanks to increase storage volume.

Controller Options:

Application	Differential Controller
Differential Controller + Data Logging	SETRA 503 TTR
Differential Controller + Data Logging + Online Monitoring	SEPROX + DL2



SETRA503TTR



SEProX

Technical Information

Model	100005-8-UPS15-58	100005-8-UPS26-99	100005-8-UPS26-150
Maximum Collector Area	200 ft ²	550 ft ²	800 ft ²
Maximum Nominal Pipe Size	1 Inch	1 Inch	1 1/2 Inch
Maximum Solar Plumbing Run	75 feet	75 feet	75 feet
Input Voltage	120 VAC	120 VAC	120 VAC
Maximum Pump Power	90 W	200 W	370 W

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



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Applications



Solar Water Heating

Features and Components

The SolarStation 1-Line is SunEarth's solution to commercial solar thermal systems up to 800 ft² of collector area. Designed with multi speed pumps to ensure compatibility with a wide range of system configurations. The SolarStation 1-Line is factory assembled using top tier components and is tested for hydraulic integrity to ensure a smooth installation.

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 up to 5 locations with 3 controllable outputs. Micro-SD card for data logging of Time, date, temperature, and pressure are standard. Optional internet connectivity and system energy production reporting through a web based application.

Electronic Pressure and Temperature Sensors

Ensuring faster system commissioning with the ability for precise adjusts to system parameters.

Pump

Wet-rotor type whereas the pump and motor form an integral unit without shaft seals. Pump utilizes composite impellers with cast-iron volute. Multiple speed settings provide the ability to tune the solar system for optimal operation rates.

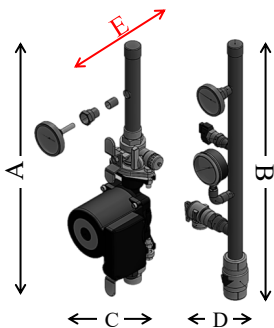
Service Valves

Ball drain valves eliminate dozens of leak paths, allowing for trouble-free flushing, draining and filling of the Solar circuit.

Solar Pump Station Specifications

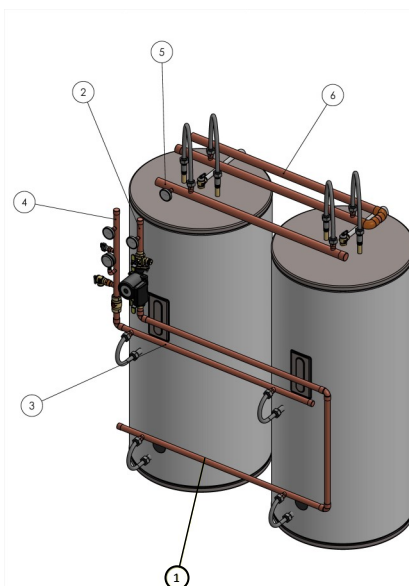
The solar pump station shall be SunEarth Model _____. The unit pump shall be controlled via differential temperature controller, utilizing included resistance temperature sensor inputs. There shall be isolation/service drain valves on both the suction and discharge sides of the pump. There shall be visual and electronic pressure gauges for the solar plumbing circuit.

Dimensions:



Model	A	B	C	D	E
100005-8-UPS15-58	20"	24"	5"	5"	6"
100005-8-UPS26-99	20"	24"	5"	5"	7"
100005-8-UPS26-1505	20"	24"	5"	5"	8"

Storage Tank Manifold Integration:



No.	Part Number	Description
1	(Tank Capacity) G*-X-Number of Tanks	HE Solar Supply Manifold
2	100005-8-UPSXXX-XX-4	Pump Station 1 Line Solar Supply
3	G*-X-5	HE Solar Return Manifold
4	100005-8-UPSXXX-XX-5	Pump Station 1 Line Solar Return
5	G*-X-10	HE-Domestic Hot Manifold
6	G*-X-11	HE-Domestic Cold Manifold

*G: Tank capacity (80 or 120 gallon volume)

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