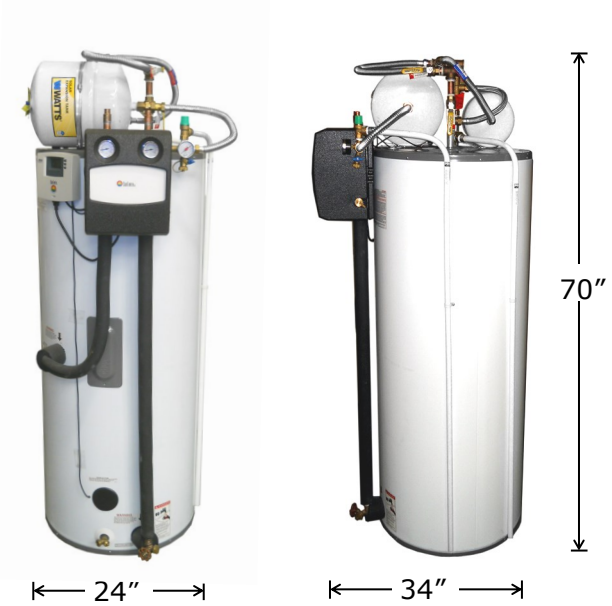
# THE SOLARAY AC

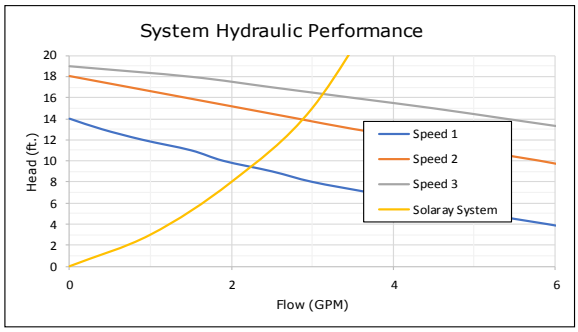
HOT WATER STATION **SPECIFICATION SHEET**

## Dimensions and Technical Specifications




| System | |
|---|---|
| Maximum Collector Area[1] | 96 ft$^2$ |
| Maximum Building Height[2] | 30 ft |
| Minimum City Water Pressure | 55 psi |
| Maximum Potable Plumbing Diameter | 0.75 in |
| Solar System Fluid Volume | 7.5 gal |
| **Electrical** | |
| Maximum Power Input | 100 Watts |
| Input voltage | 115 V |

[1]Collectors plumbed in parallel.
[2]Based on 30 feet of piping to the collectors.




The SunEarth SolaRay AC is a ready to install, pre-engineered hot water station (HWS) that is designed with seamless installation in mind. Factory assembled using top tier components and tested for hydraulic integrity. The SolaRay AC HWS contains all the components and safety devices necessary for SunEarth’s high performing SolaRay AC indirect glycol system. Featuring an all copper, double walled heat exchanger, an adjustable three speed pump and manufactured by SunEarth, the SolaRay AC HWS is the installers obvious choice.

## Features and Components

### Solar Station
Contains an integrated, 3 speed pump, air separator and vent, flow meter with balancing valve, fill and purge valves as well as a pressure gauge and expansion tank connection. The solar station is protected by a 145 PSI pressure relief valve.

### Relief Valve Drain Tubes
Constructed from High Temperature Polypropylene with a rating of 105kBtu/hr.

### Heat Exchange Storage Tank
Glass lined and pressure tested, includes a copper double wall protected heat exchange coil beneath the tanks R-17 insulation and painted metal jacket. The heat exchange storage tank is protected by a 150 psi/210°F relief valve.

### Controller
Operates the pump through differential temperature algorithms, the Liquid Crystal Display (LCD) offers insight into the system operation and condition. The controller reports temperature readings from 3 distinct locations; (T1) collector, (T2) bottom of storage tank and (T3) top of storage tank.

### Thermal Expansion Tanks
Ensures consistent pressure throughout the wide operational temperature range. The NSF Standard 61 rated potable tank has a total volume of 2.1 gallons and an operational limit of 150 psi/200°F. The solar expansion tank has a total volume of 4.8 gallons and an operational limit of 150psi/240°F.

### Mixing Valve
Distributes controlled temperature water by incorporating a fast acting, high quality thermostatic element. Factory set to 120°F the mixing valve allows higher storage temperatures saving more energy and reducing the chances of Legionella bacterial growth in the water. Valve can be adjusted between 90°F and 130°F.

### Service Bypass
Comprised of lead free ball valves the integrated service bypass allows the backup water heater to continue operating while service is performed on the solar system.



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