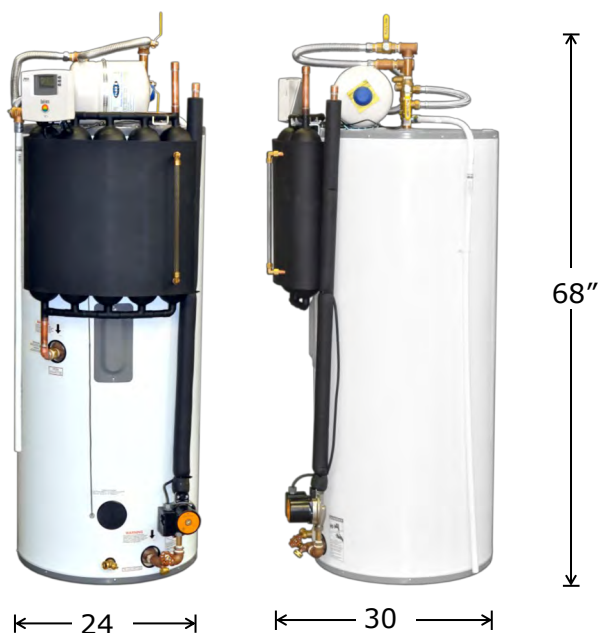


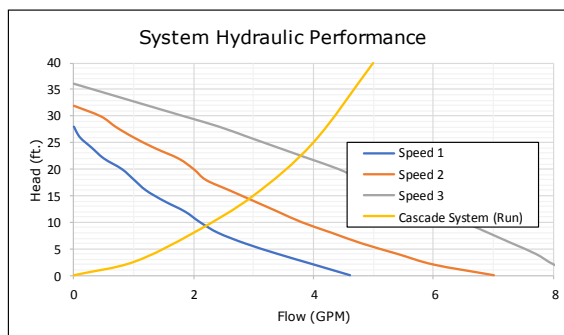
Dimensions and Technical Specifications



System	
Maximum Collector Area ¹	96 ft ²
Maximum Building Height ²	20 ft
Minimum City Water Pressure	55 psi
Maximum Potable Plumbing Diameter	0.75 in
Electrical	
Maximum Power Input	150 Watts
Input voltage	115 V

¹Collectors plumbed in parallel.

²Based on 20 feet of piping to the collectors.



Note: Pump head during fill condition is not depicted.

The Drainpack Hot Water Station (HWS) was specifically designed and engineered with the professional installer in mind. The HWS is factory assembled using top tier components and is tested for hydraulic integrity to ensure a smooth installation. The Drainpack HWS pairs perfectly with SunEarth's high performing Cascade drainback system and includes all necessary components while eliminating dozens of intermediate connections.

Features and Components

Drainpack Reservoir

The HWS incorporated an all copper 6 gallon drainback reservoir. Including a 75 psi pressure relief valve and integrated sight glass for simple system commissioning and maintenance.

Pump

Double-insulated magwire to protect the motor windings against condensation that may occur in a solar application. Multiple speed settings with stainless steel impeller and volute. Includes a ferritic rotor can to maximize motor efficiency.

Heat Exchange Storage Tank

Glass lined and pressure rated 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.

Relief Valve Drain Tubes

Constructed from High Temperature Polypropylene with a rating of 105kBtu/hr.

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.

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.

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