

VAUGHN SOLAR

Family of Solar Products

Solar Single and Dual Coil Tanks



Vaughn's all plastic jacket water heaters combine Hydrastone®, the most effective method of preventing corrosion, with foam—the most efficient material for preventing heat loss.

The Vaughn Hydrastone-lined solar water heater offers a unique combination of features that make it the best choice for use with solar systems. The Vaughn Solar water heater allows fluid from the solar collectors to circulate through a 20 square foot copper finned solar removable heat exchanger within the tank itself. The submerged heat exchanger provides the highest efficiency while saving space, installation time, and additional costs associated with a separate external heat exchanger.

For three generations Vaughn has built water heaters of the heaviest gauge steel with seamless one-half inch thick Hydrastone lining and bronze fittings at all water openings. Vaughn's unique manufacturing process has continually combined this old fashioned quality with ongoing advanced technology in providing the longest lasting and environmentally friendly heater available.

This unequalled combination of quality/technology and continuous commitment to the solar industry has always set Vaughn apart from other solar water heater manufacturers.

with Hydrastone lining, removable heat exchanger and more features . . .

Solar Single-Coil Tanks

Heat Trap Specially designed built-in hot water outlet pipe preventing unnecessary heat loss.

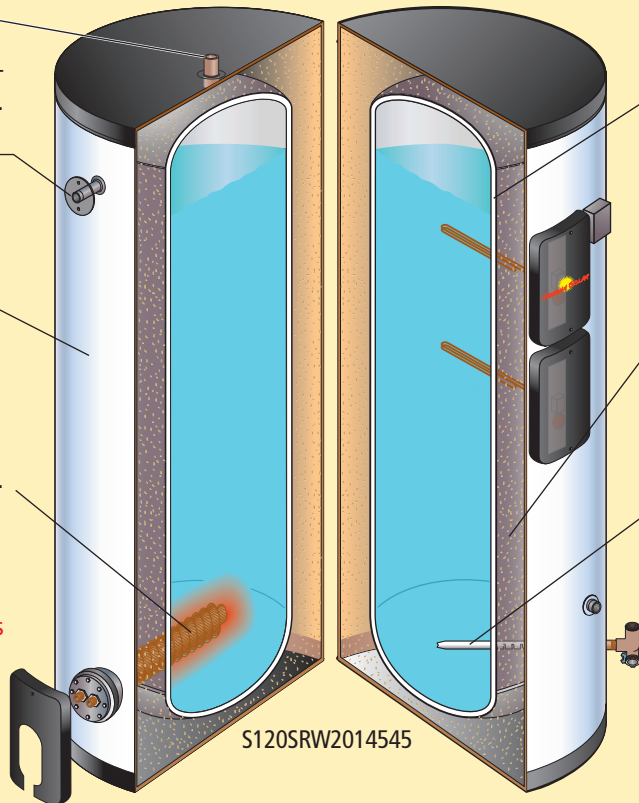
Temperature and Pressure Relief Valve (included)

Plastic Jacket Rust-free, all plastic outer jacket. Easy to clean and no maintenance.

Removable Heat Exchanger Single or dual coil for easy maintenance.

Bronze Fittings at all water openings eliminates corrosion due to dissimilar metals. **No dielectric unions or anode rod required.**

7 Year Limited Warranty



Hydrastone Lining

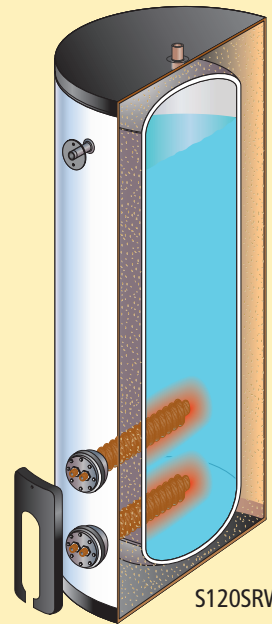
A seamless 1/2" thick lining which has proven to be the most effective method of preventing tank failure due to corrosion.

Dense Urethane Foam Insulation completely surrounds the tank to significantly reduce heat loss and increase energy savings.

Cold Water Inlet Diffuser introduces cold water at the bottom of the tank and prevents turbulent mixing with heated water. This ensures desired layering of hot water through the tank.

Approved with many collectors to obtain OG300 certification.

Solar Dual-Coil



Features/Benefits

- **Lowest stand-by heat loss: heat-retaining Hydrastone lining absorbs BTUs**
- **Dual-coil tanks for multi-fuel applications: second coil for boiler back up in colder months, electric elements for back up in warmer months**
- **Temperature and pressure relief valve included**
- **Coils easily removed for cleaning**

Tank Specifications/Connections

- All tappings 3/4 inch
- Temperature and pressure relief valve included
- Vacuum breaker may be required
- Limited 7-year warranty

Coil Specifications

- 20 sq. foot, single wall, standard 3/4 inch I.D.
- Commercial, 20 sq. foot, 1 inch I.D.
- Double wall, leak detection, 20 sq. foot, 3/4 inch I.D.

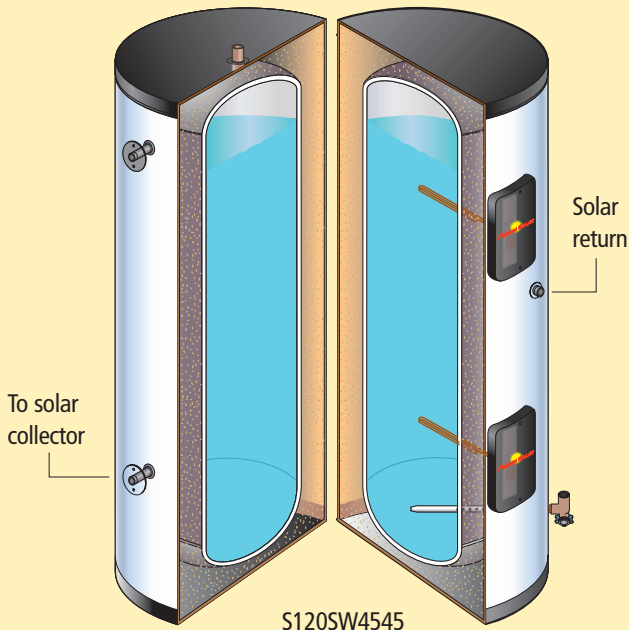
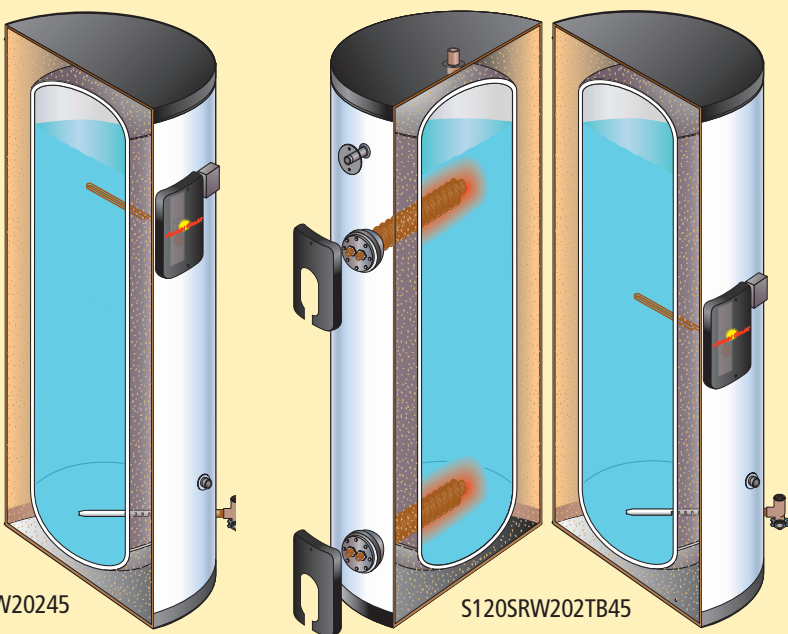
Standard 7-year Limited Warranty

(5-year on dual coil) A repair or replacement (excluding labor and freight) if the tank or heat exchanger should leak within 7 years from the date of purchase.

GALLONS	HEIGHT	DIAMETER	WEIGHT
65	47 7/8	26	299
80	58	26	325
120	69	28	410

Tanks

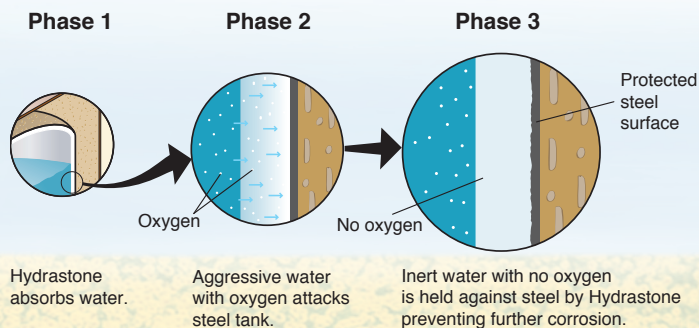
Solar Direct Exchange Tanks



Compatible with any external heat exchanger or direct exchange system.

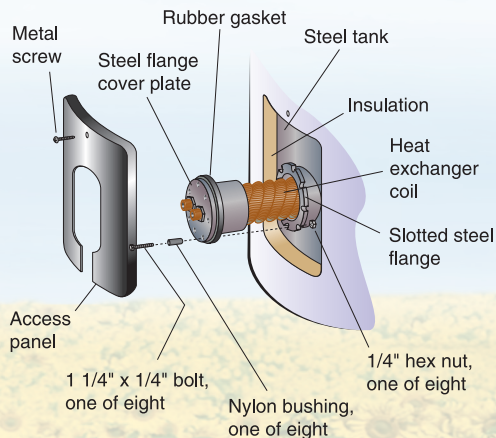
Hydrastone Lining

A seamless one-half inch thick stone lining impervious to any adverse water conditions, proven to be the most effective method of preventing tank failure due to corrosion and a proven method of saving BTUs.



Removable Heat Exchanger

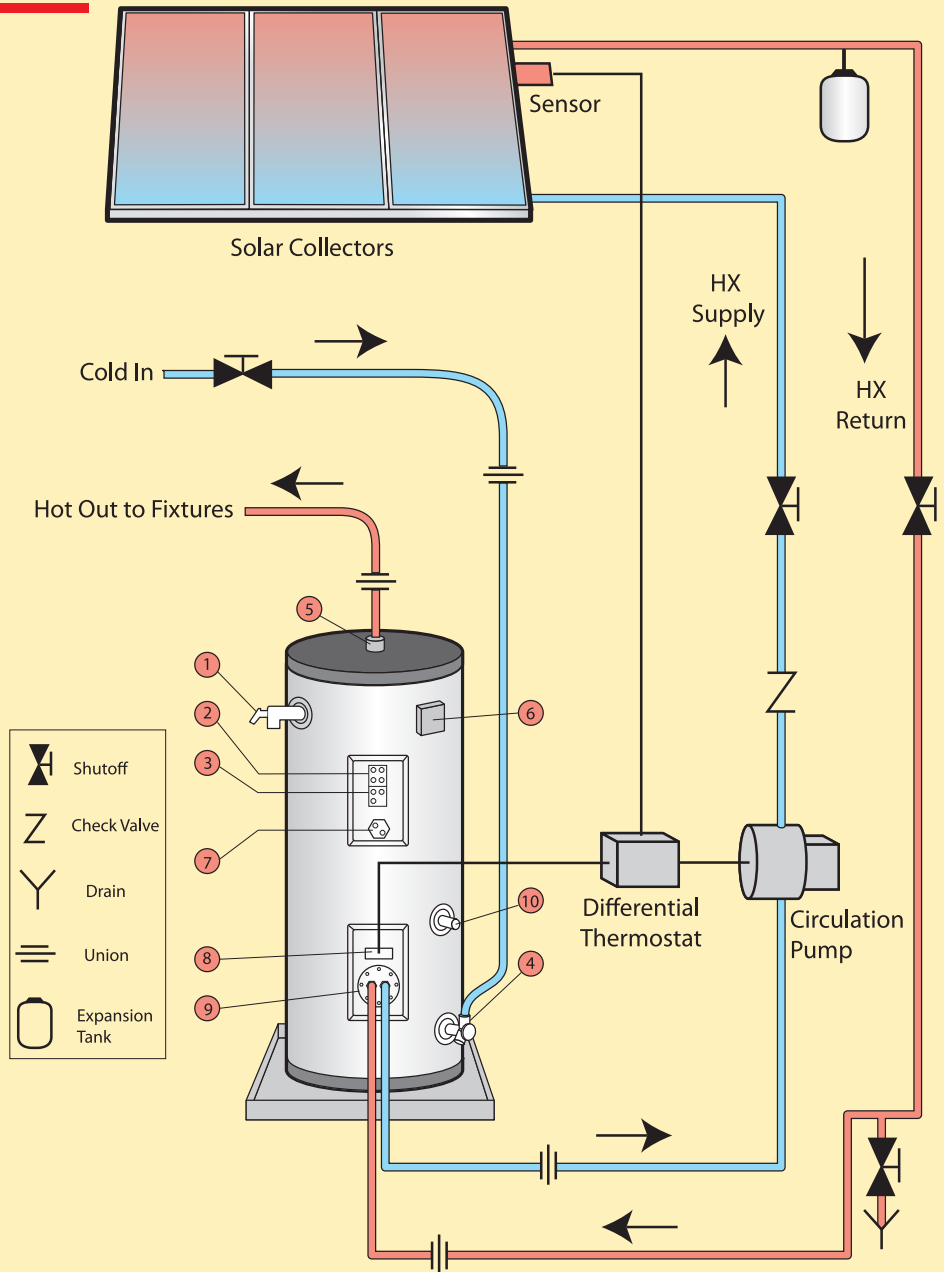
Conveniently located and simple 8-bolt flange design for ease of installation and service. This superior design allows for periodic cleaning of coil to maintain maximum performance.



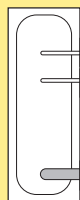
VAUGHN SOLAR

Installation

- 1. Temperature and Relief Valve**
Located above and to the left of hot water outlet.
- 2. High-Limit Safety Switch**
Manual reset switch designed to shut off all electrical circuits if water reached 190°F.
- 3. Automatic Thermostats**
For constant temperature control, thermostats are specifically designed for Hydrastone water heaters. Located under access plates.
- 4. Water Diffuser**
Introduces cold water at the bottom of the tank in a flat, gentle swirl preventing turbulent mixing with heated water above. Tank drain is also part of the cold water diffuser.
- 5. Hot Water Outlet Nipple with Heat Trap**
- 6. Wiring and Connections**
Located in front of the heater for easy installation and access. All wiring is designed for operation up to 6kW@240 volts.
- 7. Long-Life Heating Elements**
Waste is reduced with immersed heating elements because all available heat passes directly into the water. Low-watt density elements assure longer life and reduce mineral buildup.
- 8. Thermistor Clip**
(Control is part of the solar system.)
- 9. Heat Exchanger**
- 10. Water Tight Immersion Well**
(Can be used for thermistor.)



Single Coil



S65SRW20145
S80SRW20145
S120SRW2014545

Double Coil



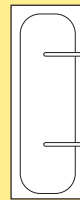
S65SRW20245
S80SRW20245
S120SRW2024545

Double Coil
Top and Bottom



S65SRW202TB45
S80SRW202TB45
S120SRW202TB45

Direct Exchange



S80SW4545
S120SW4545

- Commercial 1-inch coils available in all models.
- Double wall coils available in all models.

Vaughn
Manufacturing
Corporation



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