

**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.

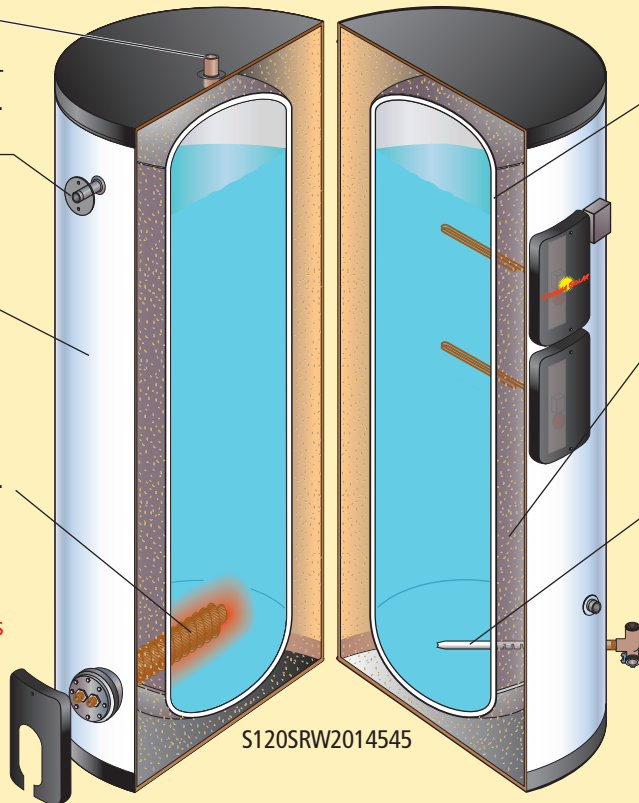
**Temperature and Pressure Relief Valve** (included)

**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**



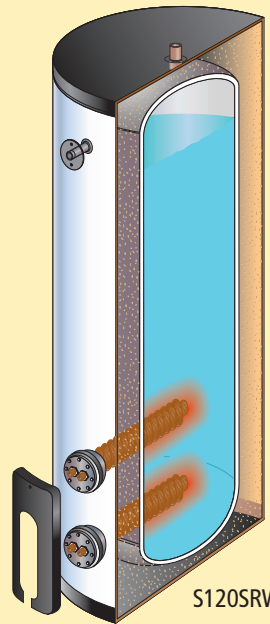
**Hydrastone Lining**  
A seamless 1/2" thick lining which has proven to be the most effective method of preventing tank failure due to corrosion.

**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.

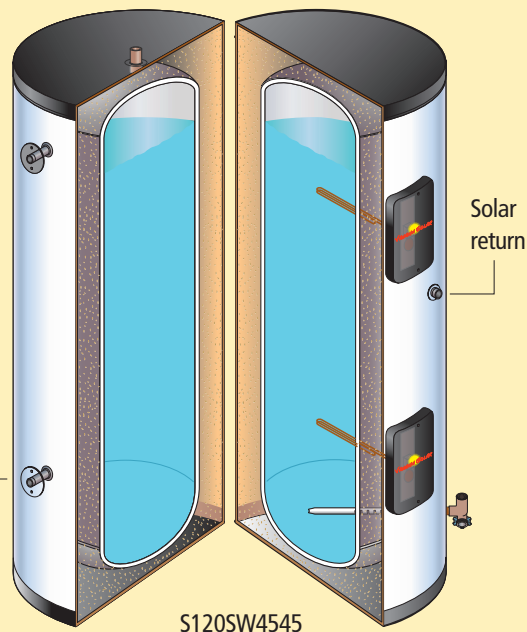
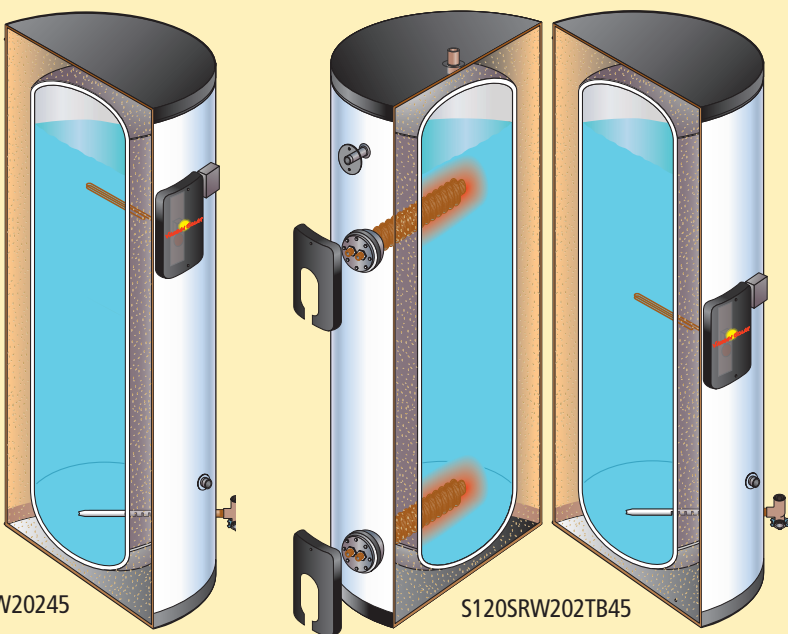
## Standard 7-year Limited Warranty

(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

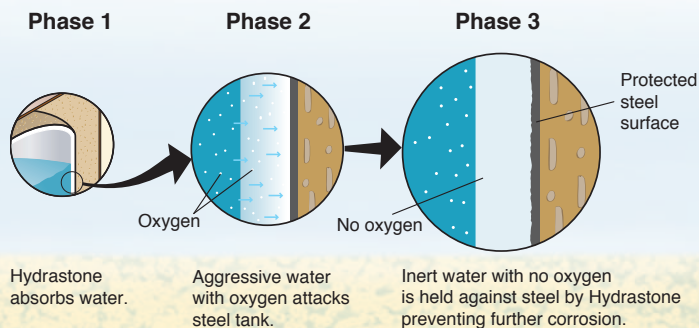
# Solar Direct Exchange Tanks



Compatible with any external heat exchanger or direct exchange system.

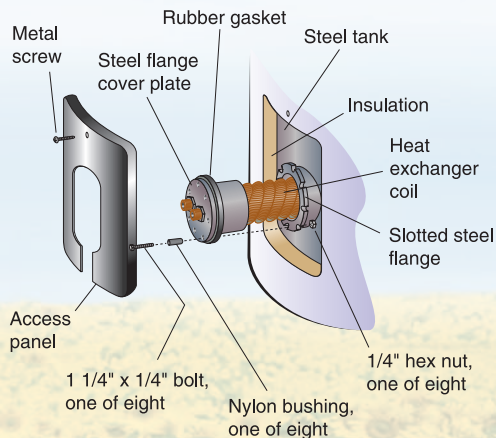
## Hydrastone Lining

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.



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# 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.

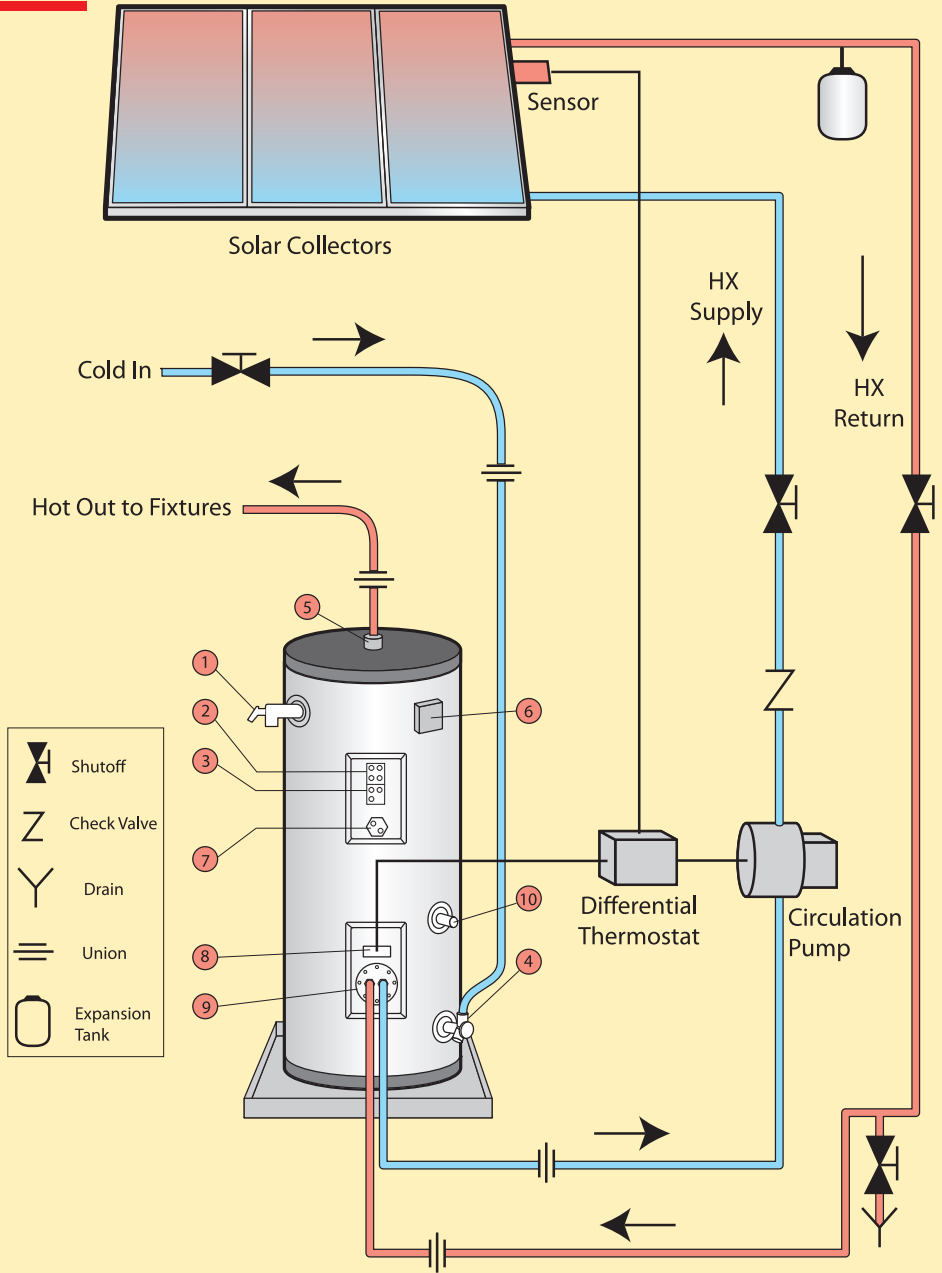
## 8. Thermistor Clip

(Control is part of the solar system.)

## 9. Heat Exchanger

## 10. Water Tight Immersion Well

(Can be used for thermistor.)



**ECHO Système**  
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26 Old Elm Street

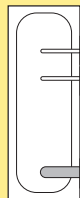
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### Single Coil



S65SRW20145

S80SRW20145

S120SRW2014545

### Double Coil

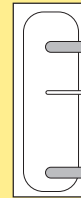


S65SRW20245

S80SRW20245

S120SRW2024545

### Double Coil Top and Bottom

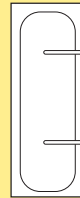


S65SRW202TB45

S80SRW202TB45

S120SRW202TB45

### Direct Exchange



S80SW4545

S120SW4545

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

**Made in New England to the Highest Quality Standards**