VAUGHN
a nudyne company

Solar Water Heater

Available in 65-119 Gallon Capacities

Solar



HS

SERIES

Hydrastone® lining provides longer tank life

Single and dual coil solar water heaters

- High impact composite jacket cannot rust or corrode
- Field removable all-copper heat exchanger coil provides maximum hot water output
- 7 year limited warranty

Save Money Using Renewable Energy

The Vaughn solar water heater is designed for use with a wide range of solar and multi-fuel system configurations. Heavy gauge steel construction, paired with a Hydrastone lining ensures long life. Premium CFC-free polyurethane foam insulation provides a high level of efficiency and allows for very low heat loss, ensuring that the energy captured from any heat source remains in your system.

Available model configurations include single or dual copper heat exchanger coils to allow maximum heat transfer. With optional backup elements for heating during periods of inclement weather, the Vaughn solar line is an efficient way to meet your hot water needs while embracing renewable energy options.

Intertek

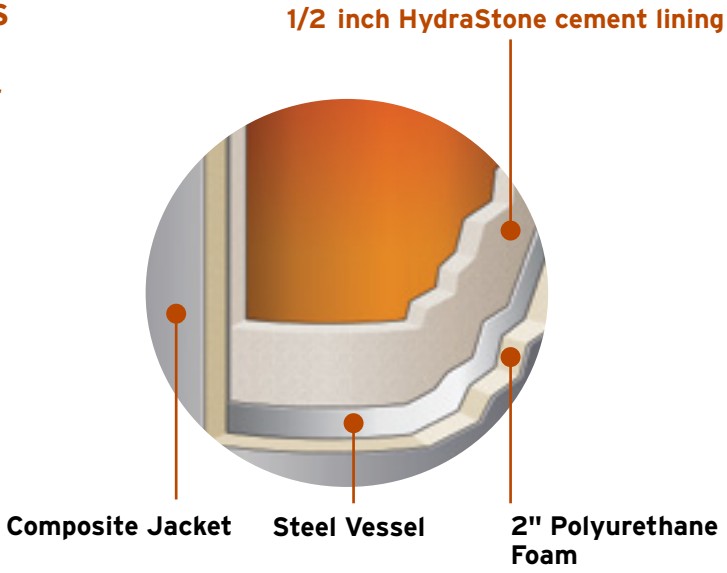
MADE IN USA
BUY AMERICAN ACT COMPLIANT
CONTAINS IMPORTED COMPONENTS

978-462-6683
vaughncorp.com
sales@vaughncorp.com

THE BENEFIT OF HYDRASTONE® LINED TANKS

1/2 inch high density HydraStone cement is 100 times thicker than a glass lining

Full and uniform coverage is achieved by centrifugally spinning the tank with the precise amount of HydraStone cement inside. This process provides maximum protection from the corrosive effects of hot water and makes our water heaters some of the longest lasting on the market. Additionally, **HydraStone lined tanks do not require a sacrificial anode**, eliminating periodic inspections and replacement costs associated with glass lined tanks.

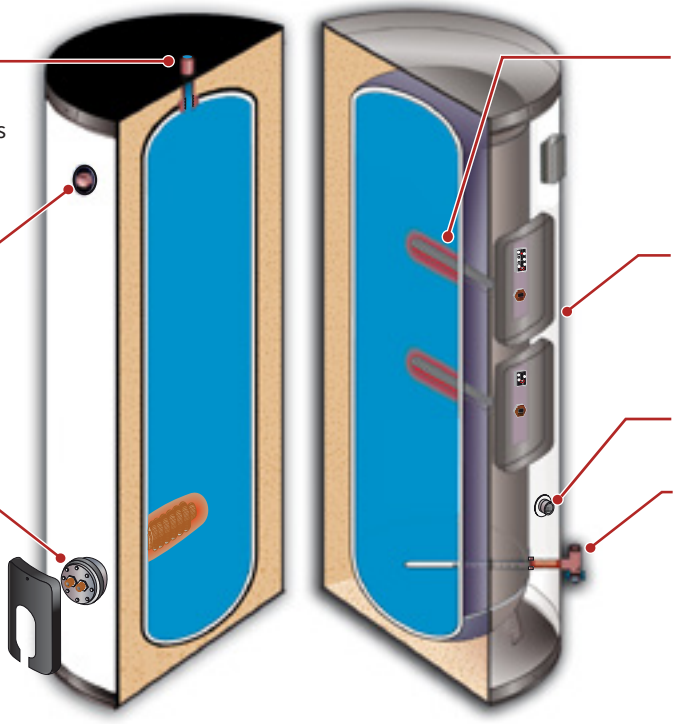


SINGLE COIL MODEL

Heat Trap
Built-in heat trap prevents unnecessary heat loss, improves efficiency and reduces operating cost.

Bronze Fittings
Eliminate corrosion due to dissimilar metals. No dielectric unions or sacrificial anode rod required.

Field Removable Heat Exchanger
High performance design constructed from fin tube copper for maximum efficiency.



Commercial Grade Elements
Special low watt density, all copper and brass heating elements for reduced mineral build-up and long life.

Plastic Jackets
Rust-free, lightweight, all-plastic outer jacket. Easy to clean and maintenance free.

Immersion Well

Brass Cold Water Inlet and Drain with Diffuser
Introduces cold water at the bottom of the tank and prevents turbulent mixing with heated water.

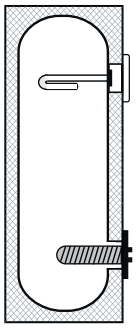
OPTIONAL EQUIPMENT
Double wall heat exchanger
1.5" cold water inlet and hot water outlet

TANK SPECIFICATIONS

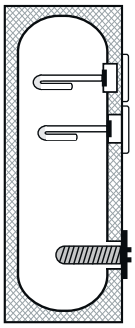
MODEL	Storage Capacity (Gallons)	Overall Dimensions (inches)		Shipping Weight (lbs.)	First Hour Rating (Gallons)			Coninuous Rating (Gallons Per Hour)			Back-Up Electric Heater (240V 1PH) Watts
		Height	Diameter		Single Wall		Double Wall	Single Wall		Double Wall	
					3/4" Coil	1" Coil	3/4" Coil	3/4" Coil	1" Coil	3/4" Coil	
SINGLE COIL											
S65SRW20145	65	46.25	26	299	210	295	120	150	235	60	4500W
S80SRW20145	80	57.25	26	325	222	307	132	150	235	60	4500W
S80TSRW2014545	80	71.75	19	340	222	307	132	150	235	60	4500W
S120SRW2014545	119	67.75	28	410	254	339	164	150	235	60	4500/4500W
DOUBLE COIL (Bottom Only)											
S65SRW20245	65	46.25	26	299	350	512	179	285	447	114	4500W
S80SRW20245	80	57.25	26	325	365	527	194	285	447	114	4500W
S80TSRW2024545	80	71.75	19	340	365	527	194	285	447	114	4500W
S120SRW2024545	119	67.75	28	410	405	567	234	285	447	114	4500W
DOUBLE COIL (Top and Bottom)											
S65SRW202TB45	65	46.25	26	299	390	512	155	225	447	90	4500W
S80SRW202TB45	80	57.25	26	325	305	527	170	225	447	90	4500W
S80TSRW202TB45	80	71.75	19	340	305	527	170	225	447	90	4500W
S120SRW202TB45	119	67.75	28	410	345	567	210	225	447	90	4500W

Notes: Hot water outlet size 3/4" Male NPT, Cold water inlet size 3/4" Female NPT, T&P relief valve 3/4" Female NPT.
All recovery ratings based upon 40-120°F (80°FΔT) hot water when supplied with 180°F solar water.

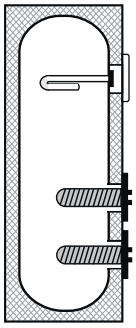
TANK CONFIGURATIONS



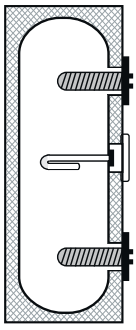
Single Coil - Single Element
(80 Gallon and Less Models)



Single Coil - Double Element
(119 Gallon Model Only)



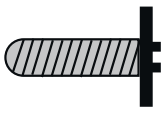
Double Coil - Single Element
(Bottom Only)



Double Coil - Single Element
(Top and Bottom)



Electric Resistance Heater

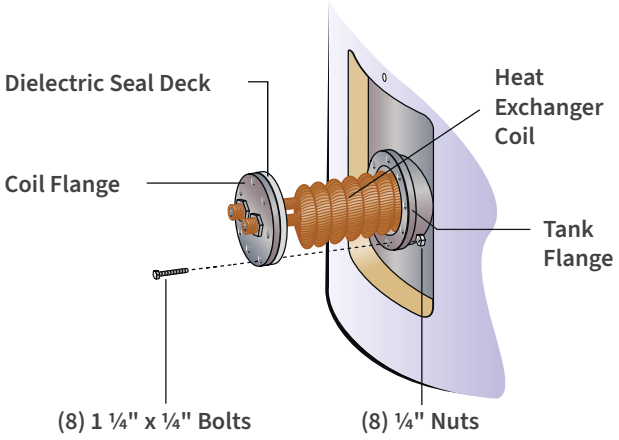


Heat Exchanger Coil (HX)

REMOVABLE HEAT EXCHANGER

Field 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.



Heat Exchanger Coil

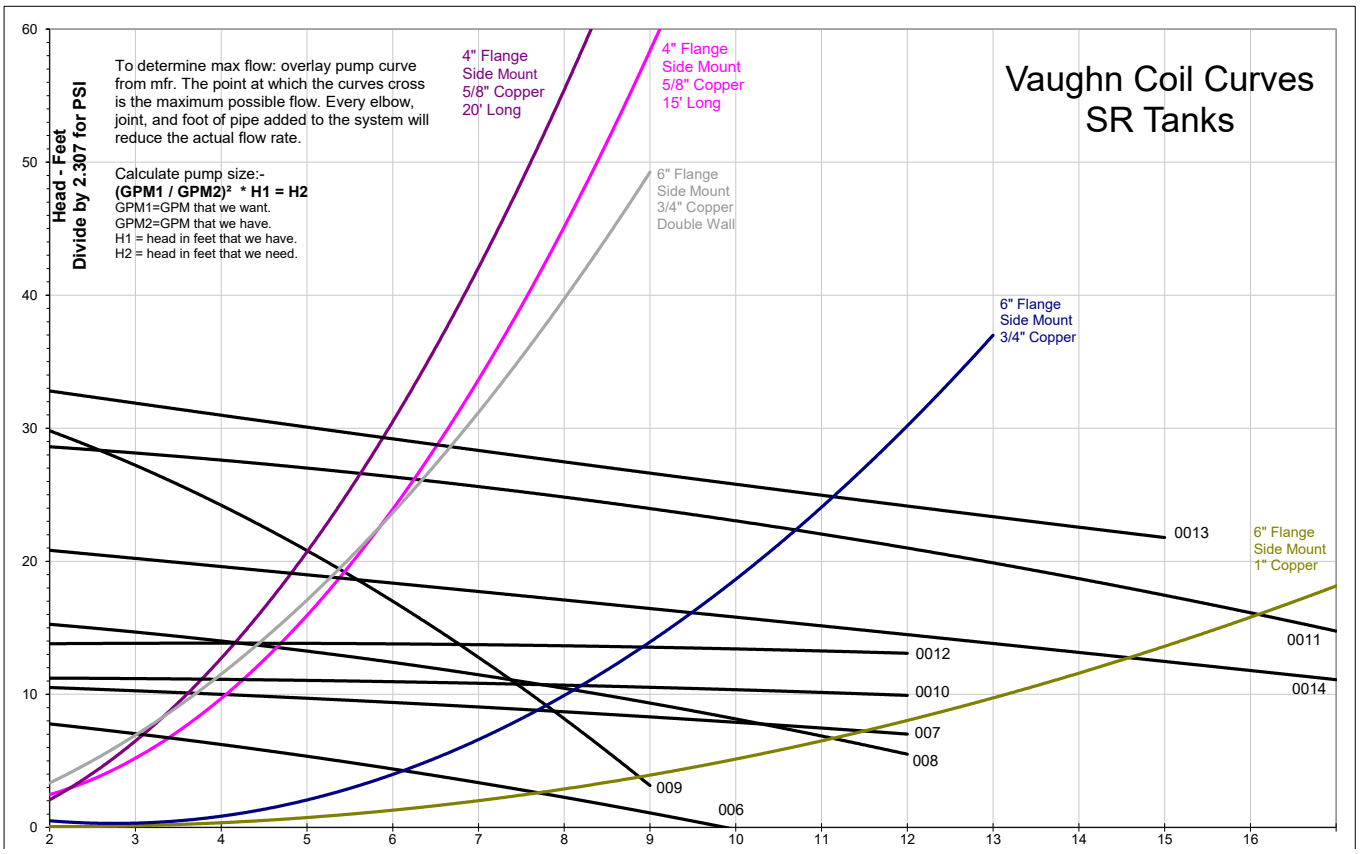
The Vaughn removable heat exchanger coil's copper finned tube construction is designed for maximum heat transfer in any hot water application, while simplifying connections to the rest of the system components.



Coil Specifications

- 20 sq. foot single wall, standard ¾ inch I.D.
- 0.25 gallons volume
- Double wall coil configurations also available

COIL CURVES: STEEL TANKS



V1021-B-20261118