

PowerStor Series®

Residential Single-Wall Indirect Water Heater

Features

- **Vitraglas® Lining with Antimicrobial Technology**—An exclusively engineered enamel formula that provides superior tank protection from the highly corrosive effects of hot water. This formula (Vitraglas®) is fused to the steel surface by firing at a temperature of over 1600°F (871°C).
- **Hydrojet® Total Performance System**—Sediment reducing device that also increases first hour delivery of hot water while minimizing temperature build-up in tank.

Additional Details

- **Heat Exchanger**—Single-Wall 1½" (38mm) O.D. glass coated (Vitraglas® with antimicrobial technology) carbon steel coil. The coil has a heat transfer area of 14.2 sq. ft. and a stored water volume of 2.7 Gal. (10.2L) Maximum supply temperature from the boiler must not exceed 240°F (116°C).
- **Immersed Adjustable Aquastat**—Fast acting for automatic temperature control (adjustable from 80°F to 160°F), (27°C to 71°C).
- **Supply and Return Connections**—1" (25mm) NPT female connections are located on the front for both the boiler collector supply and return.
- **Insulation System**—Non-CFC foam insulation covers the tank, reducing heat loss and energy consumption while improving efficiency and jacket rigidity.
- **Potable Water Connections**—¾"(19mm) NPT (1" (25mm) NPT for 120 gallon (454L) model) factory installed true dielectric fittings extend water heater life and ease installation.
- **Three Protective Anode Rods**—Provide added protection against corrosion for long-term, trouble-free service.
- **Steel Tank**—Heavy gauge steel automatically formed, rolled and welded to assure a continuous seam for glass lining.
- **T&P Relief Valve**—Installed.
- **Low Restrictive Brass Drain Valve**—Durable tamper proof design.
- **AHRI Certified**—These water heaters are rated by AHRI to provide accurate performance data. This certification provides a recognized standard by which to compare hydronic appliances.



Photo is of SW-2-65-L



Limited Lifetime Tank and Heat Exchanger Warranties / 1-Year Limited Warranty on Component Parts.

For more information on warranty, please visit www.bradfordwhite.com

For products installed in USA, Canada, and Puerto Rico. See complete copy of the warranty included with the heater for limitations.

INT554-0825

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SPECIFICATIONS

These water heaters meet or exceed all or portions of (where applicable) the minimum efficiency requirements of ASHRAE Standard 90.1 (latest edition).

Model Number	Capacity		A Floor to Heater Top	B Jacket Dia.	C Floor to T&P Conn.	D Floor to Water Conn.	E Floor to Exchanger Outlet	F Floor to Exchanger Inlet	G Floor to Aquastat	Approx. Shipping Weight
	U.S. Gal.	Imp. Gal.	in.	in.	in.	in.	in.	in.	in.	lbs.
SW-2-30-L	29	24	33 ⁵ / ₈	22	28 ¹ / ₄	34 ³ / ₈	5 ³ / ₈	27 ¹ / ₂	11 ¹ / ₂	164
SW-2-40R-L	37	31	41 ¹ / ₈	22	34 ³ / ₈	41 ⁷ / ₈	5 ³ / ₈	27 ¹ / ₂	11 ¹ / ₂	185
SW-2-50R-L	43	36	46 ¹ / ₄	22	40 ¹ / ₈	47	5 ³ / ₈	27 ¹ / ₂	11 ¹ / ₂	195
SW-2-65-L	57	47	59 ¹ / ₄	22	53 ¹ / ₈	60	5 ³ / ₈	27 ¹ / ₂	11 ¹ / ₂	225
SW-2-80-L	71	59	59	24	52 ⁷ / ₈	59 ³ / ₄	5 ³ / ₈	27 ¹ / ₂	11 ¹ / ₂	250
SW-2-120-L	110	92	62 ¹ / ₂	28 ¹ / ₄	55 ³ / ₄	63 ¹ / ₄	6 ³ / ₈	28 ¹ / ₂	11 ¹ / ₂	370

Model Number	Capacity		A Floor to Heater Top	B Jacket Dia.	C Floor to T&P Conn.	D Floor to Water Conn.	E Floor to Exchanger Outlet	F Floor to Exchanger Inlet	G Floor to Aquastat	Approx. Shipping Weight
	Liters		mm.	mm.	mm.	mm.	mm.	mm.	mm.	kg.
SW-2-30-L	110		854	559	718	873	137	699	292	74
SW-2-40R-L	140		1045	559	873	1064	137	699	292	85
SW-2-50R-L	163		1175	559	1019	1194	137	699	292	89
SW-2-65-L	216		1505	559	1349	1524	137	699	292	102
SW-2-80-L	269		1499	610	1343	1518	137	699	292	114
SW-2-120-L	416		1588	718	1416	1607	162	720	292	167

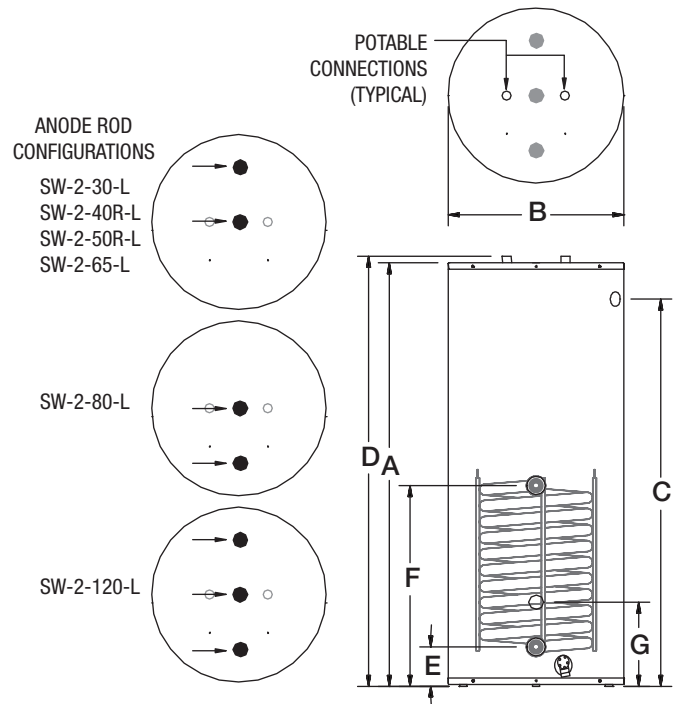
AHRI Certified Water Heater Ratings

Model Number	First Hour Delivery @ 135°F (Gal.)	Continuous Draw Rating @ 135°F (Gal./Hr.)	Standby Heat Loss Rating (°F/Hr.)	Minimum Output Rate of Heat Source (BTU/Hr.)	Minimum Heat Source Flow Rate (Gal./Min.)
SW-2-30-L	197	180	1.2	120,000	13.7
SW-2-40R-L	205	180	1.1	120,000	13.7
SW-2-50R-L	210	180	0.9	120,000	13.7
SW-2-65-L	215	175	0.7	115,000	13.7
SW-2-80-L	235	175	0.6	115,000	13.7
SW-2-120-L	265	175	0.4	115,000	13.7

Model Number	First Hour Delivery @ 57°C (Liters)	Continuous Draw Rating @ 57°C (Liters/Hr.)	Standby Heat Loss Rating (°C/Hr.)	Minimum Output Rate of Heat Source (kW/Hr.)	Minimum Heat Source Flow Rate (Liters/Min.)
SW-2-30-L	746	681	0.67	35.0	51.8
SW-2-40R-L	776	681	0.61	35.0	51.8
SW-2-50R-L	795	681	0.50	35.0	51.8
SW-2-65-L	814	662	0.39	34.0	51.8
SW-2-80-L	889	662	0.33	34.0	51.8
SW-2-120-L	1003	662	0.22	34.0	51.8

These certified ratings were obtained with a heat source output rate and flow rate as specified and a 180°F (82°C) boiler water supply temperature. Other results will be obtained under different conditions.

Heat Exchanger Head Loss					
GPM	2	5	8	10	12
Ft. of Hd. Loss	0.01	0.20	0.50	0.80	1.20



GENERAL:

All units are certified at 300 PSI (2068 kPa) test pressure and 150 PSI (1034 kPa) working pressure. Potable water connections are 3/4" (19mm) NPT on 8" (203mm) centers. The 120 gallon model has 1" (25mm) NPT potable water connections on 8" (203 mm) centers.

Suitable for Water (Potable) Heating and Space Heating.

Toxic chemicals, such as those used for boiler treatment, shall NEVER be introduced into the potable side of this system. The potable side may NEVER be connected to any existing heating system or component(s) previously used with a non-potable water heating appliance. The heat exchanger side of the unit may be used in space heating applications.

Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.



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