

PowerStor Series®

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" O.D. glass coated (Vitraglas®) carbon steel coil. The coil has a heat transfer area of 27.2 sq. ft. (2.5m₂) and a stored water volume of 5.0 Gal. (19L). 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.
- **Water Connections**—NPT factory-installed dielectric waterway with heat traps.
- **Three Protective Aluminum Anode Rods**—Provide added protection against corrosion for long-term, trouble-free service.
- **T&P Relief Valve**—Installed.
- **Low Restriction 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.



SW-80C-5



5-Year Limited Tank 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.

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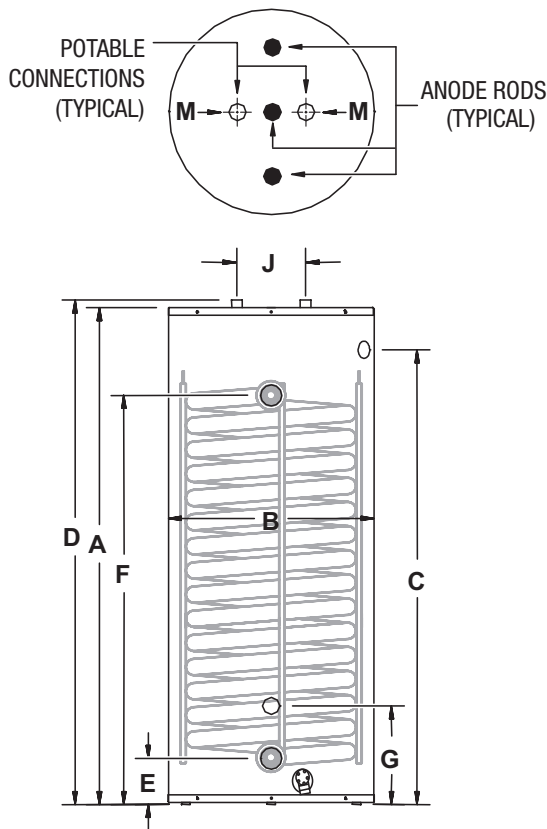
Single-Wall Indirect Water Heater

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	Nominal Gal. Capacity		A Floor to Top of Heater	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	J C/L of Water Conn.	M Water Conn. NPT	Approx. Shipping Weight
	U.S. Gal.	Imp. Gal.	in.	in.	in.	in.	in.	in.	in.	in.	in.	lbs.
SW-65C-5	54	45	59¼	22	53½	60	5⅝	47¾	11½	8	1	273
SW-80C-5	67	56	59	24	52⅞	59¾	5⅝	47¾	11½	8	1	300
SW-120C-5	107	89	62½	28¼	55¾	63¼	6⅝	48¾	11½	8	1	422

Model Number	Nominal Liter Capacity		A Floor to Top of Heater	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	J C/L of Water Conn.	M Water Conn. NPT	Approx. Shipping Weight
			mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	kg.
SW-65C-5	204		1505	559	1349	1524	137	1213	292	203	25	124
SW-80C-5	254		1499	610	1343	1518	137	1213	292	203	25	136
SW-120C-5	405		1588	718	1416	1607	162	1238	292	203	25	191



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-65C-5	370	335	0.7	225,000	14.0
SW-80C-5	380	335	0.6	225,000	14.0
SW-120C-5	400	325	0.4	220,000	14.0

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.

DOE Water Heater Performance

Model Number	Maximum First Hour Rating (Gal.) @		Continuous Draw Rating (Gal./Min.) @		Approximate Boiler Output Needed for Rating (BTU/Hr.)
	140°F	115°F	140°F	115°F	
SW-65C-5	396	582	5.7	8.8	300,000
SW-80C-5	408	594	5.7	8.8	300,000
SW-120C-5	445	631	5.7	8.8	300,000

Based on 200°F (93°C) boiler water temperature and 50°F (10°C) potable water inlet.

Heat Exchanger Head Loss

GPM	5	8	10	12	14
Ft. of Hd. Loss	0.60	1.60	2.60	3.70	5.00

GENERAL:

All units are certified at 300 PSI (2068 kPa) test pressure and 150 PSI (1034 kPa) working pressure. All potable water connections are 1" NPT (25mm) on 8" (203mm) 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.

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