

PowerStor2™ Series

Residential Double-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**—Double wall 1½" (38mm) O.D. glass coated (Vitraglas® with antimicrobial technology) steel coil. The positive leak path between the two walls of the coil ensures the potable water will stay separate from the hydronic fluid.
- **Low Heat Exchanger Head Loss**—Up to 10 GPM (38L) flow, with less than 5 ft. (1.5m) of head loss. Greatly reduces the required pump size for heat exchange.
- **Fully Automatic Thermostat Controls**—Fast acting surface-mount thermostat for automatic temperature control.
- **Supply and Return Connections**—The ¾" (19mm) NPT female connections are located on the front for both the boiler supply and boiler return.
- **Insulation System**—Non-CFC foam covers the tank, reducing heat loss, energy consumption, and improves 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 eases installation.
- **Two 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 the Air-Conditioning, Heating, and Refrigeration Institute to provide accurate performance data within the standards of the certification. This certification provides a recognized standard for proper comparison of hydronic appliances.



Photo is of DW-2-50-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

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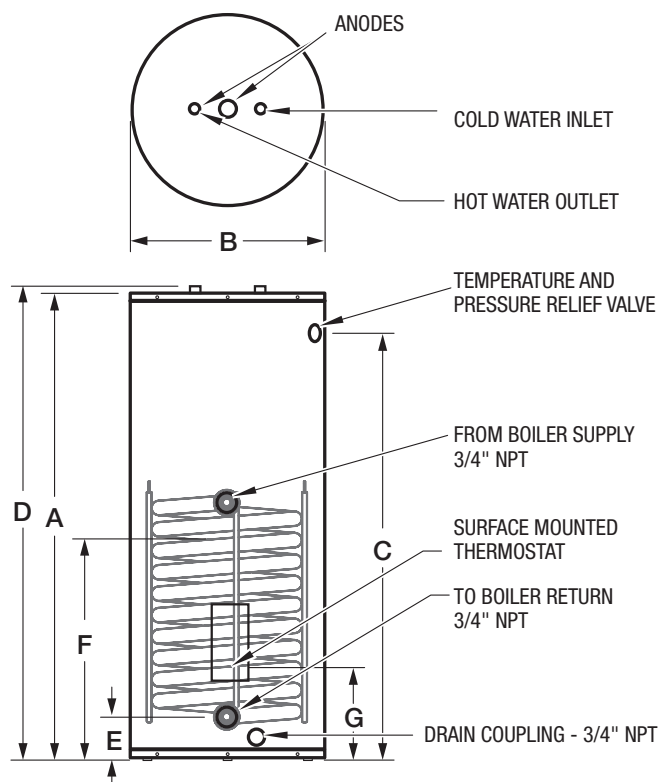
Residential Double-Wall Indirect Water Heater

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	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 Thermostat	Approx. Shipping Weight
	U.S. Gal.	Imp. Gal.	in.	in.	in.	in.	in.	in.	in.	lbs.
DW-2-40-L	37	31	41	22	34%	41%	5%	27½	11½	195
DW-2-50-L	43	36	46¾	22	40%	47¾	5%	27½	11½	205
DW-2-65-L	57	47	59	22	53%	60	5%	27½	11½	235
DW-2-80-L	71	59	59	24	52%	59¾	5%	27½	11½	255

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	Liters		mm.	mm.	mm.	mm.	mm.	mm.	mm.	kg.
DW-2-40-L	140		1045	559	873	1083	137	699	292	89
DW-2-50-L	163		1175	559	1019	1200	137	699	292	93
DW-2-65-L	216		1505	559	1349	1527	137	699	292	107
DW-2-80-L	269		1505	610	1343	1518	137	699	292	116



AHRI Certified Water Heater Ratings

Model	First Hour Rating @ 135°F (Gal.)	Continuous Draw Rating @ 135°F (Gal./Hr.)	Standby Heat Loss Rating (°F/Hr.)	Minimum Heat Req. Rate (BTU/Hr.)	Minimum Heat Source Flow Rate (Gal./Min.)
DW-2-40-L	110	85	1.1	58,000	8.0
DW-2-50-L	120	85	0.9	58,000	8.0
DW-2-65-L	135	85	0.7	58,000	8.0
DW-2-80-L	145	85	0.6	58,000	8.0

Model	First Hour Rating @ 57°C (Liters)	Continuous Draw Rating @ 57°C (Liters/Hr.)	Standby Heat Loss Rating (°C/Hr.)	Minimum Heat Req. Rate (kW/Hr.)	Minimum Heat Source Flow Rate (Liters/Min.)
DW-2-40-L	416	322	0.61	17.0	30.3
DW-2-50-L	454	322	0.50	17.0	30.3
DW-2-65-L	511	322	0.39	17.0	30.3
DW-2-80-L	549	322	0.33	17.0	30.3

NOTES: 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	Maximum First Hour Rating (Gal.) @ 140°F 115°F		Continuous Draw Rating (Gal./Min.) @ 140°F 115°F		Approximate Boiler Output Needed For Ratings (BTU/Hr.)
DW-2-40-L	116	164	1.5	2.3	80,000
DW-2-50-L	123	171	1.5	2.3	80,000
DW-2-65-L	132	180	1.5	2.3	80,000
DW-2-80-L	142	190	1.5	2.3	80,000

Heat Exchanger Head Loss

GPM	2	5	8	10	12
Ft. of Hd. Loss	0.20	0.90	2.40	3.80	5.40

GENERAL:

Meets NAECA Requirements

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.



Telephone: 800-523-2931 • Email international@bradfordwhite.com
Technical Support: 800-334-3393 • Email export.techsupport@bradfordwhite.com

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