

Commercial Power Direct Vent Independent Vent Energy Saver Gas Water Heater



Photo is of
PDV-100S-2003N

The Power Direct Vent Independent Vent Models feature:

- **Honeywell Integrated Control**—Intelligent proven design combines temperature control, diagnostic codes, and system ignition function into a single control board with a digital LCD display. Control panel cover tilts down for ease of wiring and service.
- **Operation Mode**—Two different digitally displayed operation modes have the capability of adjusting the temperature setting up to 180°F (82°C), and adjusting the degree setting (°F to °C, or °C to °F).
- **Service Mode**—Eight different digitally displayed service modes can be easily cycled through by pressing the select button. There is the capability of adjusting the temperature setting up to 180°F (82°C), adjusting the degree setting (°F to °C, or °C to °F), locking the maximum temperature setting that can be adjusted in operation mode, displaying the average water temperature (if water heater has two sensors), displaying the upper temperature sensor, displaying the lower temperature sensor, displaying the flame current of the pilot flame, and displaying diagnostic codes.
- **Automatic Blower Motor**—Induced draft for direct venting.
- **Electronic Ignition**—High voltage, low current electricity is sent to the pilot electrode initiating a spark to ignite the pilot gas. This results in savings of pilot gas during stand-by periods because the pilot flame only operates when there's a call for heat.
- **Factory Installed Hydrojet[®] 2™ Sediment Reduction System**—Cold water inlet sediment reducing device helps prevent sediment build up in tank. Increases first hour delivery of hot water while minimizing temperature build up in tank.
- **Independent Vent System**—This allows combustible air to enter from the outside through one pipe and exhausts the products of combustion through another pipe (max. equivalent vent length for each pipe on reverse side).
- **Vitraglas[®] Lining**—Bradford White tanks are lined with a exclusively engineered enamel formula that provides superior 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).
- **E.C.O.**—An automatic re-set Energy Cut Off (E.C.O) shuts off all gas in event of an overheat condition. This automatically re-sets when operation conditions are back to normal.
- **Non-CFC Foam Insulation**—Covers the sides and top of tank, reducing the amount of heat loss. This results in less energy consumption, improved operation efficiencies and jacket rigidity.
- **Water Connections**—Multiple water connection locations allow for greater installation flexibility. 1½" NPT top and front, 2" NPT rear factory installed true dielectric fittings extend water heater life and eases installation.
- **Protective Magnesium Anode Rods**—Provide added protection against corrosion for long trouble-free service.
- **Hand Hole Cleanout**—Allows inspection of tank interior and removal of sediment deposits.
- **Sanitizing Capability**—Temperature setting up to 180°F (82°C).
- **NSF Construction Available.**
- **ASME Construction Available on 250,000 BTU model (73.2 kW).**
- **Low NOx Construction Available.**
- **T&P Relief Valve**—Installed.
- **Brass Drain Valve**—Tamper proof.
- **Design Certified by CSA International (Formerly AGA and CGA).**

3-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. Some states do not allow limitations on warranties. See complete copy of the warranty included with the heater.



Commercial Gas Water Heater

Power Direct Vent Energy Saver Models

NATURAL GAS AND LIQUID PROPANE GAS

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed
80% Recovery Efficiency

Model Number	Capacity		First Hour Delivery Rating @100°F Rise Gal.	Recovery at Degree °F Rise*			A Floor to Top of Heater in.	B Jacket Dia. in.	C Vent Size in.	D Floor to Gas Conn. in.	E Front Cold Water Conn. in.	F Front Hot Water Conn. in.	G Floor to Top Water Conn. in.	H Floor to Vent Conn. in.	K Depth in.	Approx. Shipping Weight lbs.			
	U.S. Gal.	Imp. Gal.		Nat. BTU/Hr. Input	LP BTU/Hr. Input	40°F											100°F	140°F	
PDV-80S-150-3N	80	66	150,000	150,000	204	364	145	104	63 ⁷ / ₈	28 ¹ / ₄	3	17 ³ / ₈	20 ³ / ₄	51 ³ / ₈	65 ³ / ₄	68 ⁷ / ₈	43 ⁷ / ₈	645	-
PDV-80S-200-3N	80	66	199,999	199,999	253	485	194	139	63 ⁷ / ₈	28 ¹ / ₄	3	17 ³ / ₈	20 ³ / ₄	51 ³ / ₈	65 ³ / ₄	68 ⁷ / ₈	43 ⁷ / ₈	645	-
PDV-80S-250-3N(A)	80	66	250,000	225,000	301	606	242	173	63 ⁷ / ₈	28 ¹ / ₄	4	17 ³ / ₈	20 ³ / ₄	51 ³ / ₈	65 ³ / ₄	68 ⁷ / ₈	43 ⁷ / ₈	645	720
PDV-100S-150-3N	100	83	150,000	150,000	219	364	145	104	72 ⁷ / ₈	28 ¹ / ₄	3	17 ³ / ₈	20 ³ / ₄	60 ³ / ₈	74 ³ / ₄	77 ¹ / ₈	43 ⁷ / ₈	735	-
PDV-100S-200-3N	100	83	199,999	199,999	266	485	194	139	72 ⁷ / ₈	28 ¹ / ₄	3	17 ³ / ₈	20 ³ / ₄	60 ³ / ₈	74 ³ / ₄	77 ¹ / ₈	43 ⁷ / ₈	735	-
PDV-100S-250-3N(A)	100	83	250,000	225,000	312	606	242	173	72 ⁷ / ₈	28 ¹ / ₄	4	17 ³ / ₈	20 ³ / ₄	60 ³ / ₈	74 ³ / ₄	77 ¹ / ₈	43 ⁷ / ₈	735	815

Model Number	Capacity		First Hour Delivery Rating @56°C Rise Liters	Recovery at LPH °C Rise*			A Floor to Top of Heater mm.	B Jacket Dia. mm.	C Vent Size mm.	D Floor to Gas Conn. mm.	E Front Cold Water Conn. mm.	F Front Hot Water Conn. mm.	G Floor to Top Water Conn. mm.	H Floor to Vent Conn. mm.	K Depth mm.	Approx. Shipping Weight kg.			
	Liters			Nat. kW Input	LP kW Input	4.4°C											56°C	60°C	
PDV-80S-150-3N	303		43.9	43.9	772	1378	549	394	1603	718	76	438	525	1303	1654	1732	1117	293	-
PDV-80S-200-3N	303		58.6	58.6	958	1836	734	526	1603	718	76	438	525	1303	1654	1732	1117	293	-
PDV-80S-250-3N(A)	303		73.3	65.9	1139	2294	916	655	1603	718	102	438	525	1303	1654	1856	1117	293	327
PDV-100S-150-3N	379		43.9	43.9	829	1378	549	394	1832	718	76	438	525	1532	1883	1961	1117	333	-
PDV-100S-200-3N	379		58.6	58.6	1007	1836	734	526	1832	718	76	438	525	1532	1883	1961	1117	333	-
PDV-100S-250-3N(A)	379		73.3	65.9	1181	2294	916	655	1832	718	102	438	525	1532	1883	2084	1117	333	370

(A)=ASME Code Available.

For Propane (LP) Gas models change suffix "N" to "X".

* Recoveries and First Hour Delivery Rating are based on Natural Gas input and 80% Thermal Efficiency.

For LowNOx compliance to meet SCAQMD requirements, place an "E" following the BTU Input identifier of the model number.

Example: PDV-80S-150E-3N.

For 5 year models change suffix from "3" to "5".

	3" Max. Intake	3" Max. Exhaust	4" Max. Intake	4" Max. Exhaust
PDV-80S-150, 200	45 ft.	45 ft.	60 ft.	60 ft.
PDV-80S-250	N/A	N/A	60 ft.	60 ft.
PDV-100S-150, 200	45 ft.	45 ft.	60 ft.	60 ft.
PDV-100S-250	N/A	N/A	60 ft.	60 ft.

For additional venting information, consult I&O Manual.

Sample Specification

The water heater shall be a Bradford White model with a rated storage capacity of not less than _____ gallons (_____ liters), a minimum gas input of _____ BTU/Hr. (_____ kW), a minimum recovery of _____ GPH (_____ LPH), and a minimum First Hour Delivery of _____ Gal. (_____ liters). The tank shall be Vitraglas® lined and have a bolted hand hole cleanout. A digital LCD display shall be integrated into the front control box, and the control shall be an adjustable electronic thermostat to any temperature up to 185°F (85°C), and have an automatic re-set Energy Cut-off (E.C.O.), which shuts off all gas in an event of an overheat condition. The tank shall have _____ magnesium anode rods installed in separate tank head couplings. The heater shall have Non-CFC foam insulation, electronic ignition, and come equipped with an ASME rated T&P relief valve, a cold water inlet Hydrojet® Sediment Reduction System, and an induced draft blower motor for direct venting (115V AC required). It shall be design certified by CSA International for 180°F (82°C) application, either with or without a separate storage tank, and comply with state and local codes and ordinances.

General

All gas water heaters are certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa). All models are design certified by CSA International (formerly AGA/CGA), ANSI standard Z-21.10.3, for up to 180°F (82°C) application as an Automatic Storage Heater, and an Automatic Circulating Tank Heater. As an Automatic Storage Heater, all models are complete, self-contained water heating systems. It needs no separate storage tank, pump, wiring or elaborate piping network. When equipped with a mixing valve, it will supply 180°F (82°C) sanitizing and 140°F (60°C) general purpose hot water simultaneously. These models can be used either as a single unit or in multiples connected in series or parallel (recommended).

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



Ambler, PA

For U.S. and Canada field service, contact your professional installer or local Bradford White sales representative.

Sales 800-523-2931 • Fax 215-641-1670 / Technical Support 800-334-3393 • Fax 269-795-1089 • Warranty 800-531-2111 • Fax 269-795-1089

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