



## Commercial Gas — Power Direct Vent Independent Vent System

### Features:



Bradford White is ISO registered to the 9001 standard.

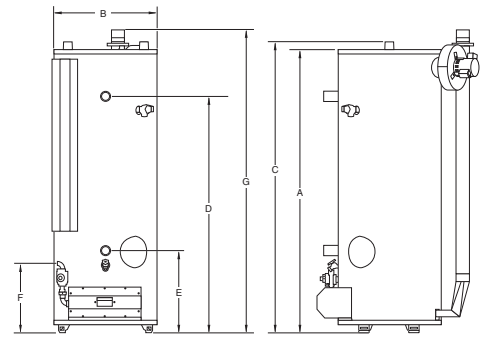
- **1½" Non-CFC foam insulation**—surrounds the tank surface, saving energy by retarding loss of heat.
- **Automatic blower motor**—induced draft for direct venting.
- **Electronic ignition**—electronic ignition eliminates the constant burning pilot used on other commercial water heaters. The device results in savings of pilot gas during stand-by periods. (115V AC required to heater). Ignition system operates off of 24 volts.
- **Independent vent**—exhausts the products of combustion and supplies combustion and ventilation air through two separate pipes, 3" or 4" PVC, CPVC or ABS. Maximum venting distance of 40ft. with one 90° degree elbow in 3". The 250,000 BTUH model vents with 4" PVC, CPVC, ABS only. Maximum vent length 55' with one 90° elbow in 4". (All models).
- **Vitraglas® lined tank**—Bradford White's water heater tanks are protected from the corrosive effects of hot water by an exclusive ceramic porcelain-like coating. Our high silica Vitraglas® lining provides a tough interior surface for Bradford White's water heater tanks.
- **Protective magnesium anode rods**—employed to provide an extra measure of corrosion protection for longer life.
- **Hand hole cleanout**—allows inspection of tank interior and facilitates removal of water heater's principal deterrent to long life—accumulated lime and sediment deposits.
- **Controls**—adjustable electronic thermostat to any temperature up to 180°F (82°C). A recycling Energy Cut Off (E.C.O.) shuts off all gas in event of an overheat condition.
- **Factory installed Hydrojet® Total Performance System**—cold inlet sediment reduction device. Helps prevent sediment build up in tank. Increases first hour delivery of hot water while minimizing temperature build up at top of tank.
- **Factory installed dielectric fittings**—all heaters equipped with special water heater nipples for longer heater life. No special dielectric fittings to buy.
- **NSF Construction available.**
- **80 and 100 gallon tank capacity (303 and 379 liters).**
- **150,000, 199,999 and 250,000 BTUH input. (44.0, 58.6 and 73.2 KW)**
- **Brass drain valve.**
- **T&P relief valve**—factory installed.
- **Three year limited warranty on steel tank**—heavy gauge steel automatically formed, rolled and welded to assure a continuous seam for glass lining.
- **One year limited warranty on parts.**
- **Design certified by CSA International (Formerly AGA/CGA)**
- **All models listed with California Energy Commission.**
- **Low NO<sub>x</sub> Construction available. (Inputs may vary)**
- **ASME Construction available on 250,000 BTU model. (73.2 KW)**

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS:  
5,954,492; 5,761,379; 5,943,984; 5,081,696; 5,988,117; 6,142,216; 5,199,385;  
6,684,821; 5,574,822; 5,372,185; 5,485,879; 5,277,171; (B1)5,341,770; 5,660,165;  
5,596,952; 5,682,666; 4,904,428; 5,023,031; 5,000,893; 4,669,448; 4,829,983;  
4,808,356; 5,115,767; 5,092,519; 5,052,346; 4,416,222; 4,628,184; 4,861,968;  
4,672,919; Re. 34,534. OTHER U.S. AND FOREIGN PATENT APPLICATIONS  
PENDING. CURRENT CANADIAN PATENTS: 1,272,914; 1,280,043; 1,289,832;  
2,045,862; 2,112,515; 2,108,186; 2,107,012, 2,092,105.



# Commercial Power Direct-Vent

## PDV-80S-150-3N, PDV-80S-200-3N, PDV-80S-250-3N, PDV-100S-150-3N, PDV-100S-200-3N, PDV-100S-250-3N



### ENERGY SAVER MODELS Includes installed T&P Valve and Electronic Ignition.

V	●	▲	★	MODEL NUMBER	NAT & LP INPUT BTU	1ST HR. DEL. GAL. AT 100°F RISE	RECOVERY GPH AT DEGREE RISE			STG. CAP. U.S. GAL.	DIMENSIONS IN INCHES										WEIGHT	
							40°F	100°F	140°F		A HT.	B DIA.	C TOP WTR. CONN.	D F&R HW CONN.	E F&R CW CONN.	F GAS CONN.	G TOP VENT HT.	WTR. CONN.	GAS CONN. DIA.	RELIEF VALVE OPEN	STD. WT. (LBS.)	ASME (LBS.)
V	●	▲	★	PDV-80S-150-3N	150,000	204	364	145	104	80	63%	28%	65%	51%	20 1/8"	17 1/4"	68 3/8"	1 1/2"(T&F) 2(R)	3/4"	3/4"	645	—
V	●	▲	★	PDV-80S-200-3N	199,999	253	485	194	139	80	63%	28%	65%	51%	20 1/8"	17 1/4"	68 3/8"	1 1/2"(T&F) 2(R)	3/4"	3/4"	645	—
V	●	▲	★	PDV-80S-250-3N(A) <sup>LP</sup>	250,000	301	606	242	173	83	63%	28%	65%	51%	20 1/8"	17 1/4"	73 1/8"	1 1/2"(T&F) 2(R)	3/4"	1	645	720
V	●	▲	★	PDV-100S-150-3N	150,000	219	364	145	104	100	72%	28%	74%	60%	20 1/8"	17 1/4"	77 1/8"	1 1/2"(T&F) 2(R)	3/4"	3/4"	735	—
V	●	▲	★	PDV-100S-200-3N	199,999	266	485	194	139	100	72%	28%	74%	60%	20 1/8"	17 1/4"	77 1/8"	1 1/2"(T&F) 2(R)	3/4"	3/4"	735	—
V	●	▲	★	PDV-100S-250-3N(A) <sup>LP</sup>	250,000	312	606	242	173	100	72%	28%	74%	60%	20 1/8"	17 1/4"	82 1/8"	1 1/2"(T&F) 2(R)	3/4"	1	735	815

V	●	▲	★	MODEL NUMBER	NAT & LP INPUT KW	1ST HR. DEL. LTR. AT 56°C RISE	RECOVERY LPH AT DEGREE RISE			STG. CAP. LITERS	DIMENSIONS IN MILLIMETERS										WEIGHT	
							22°C	56°C	78°C		A HT.	B DIA.	C TOP WTR. CONN.	D F&R HW CONN.	E F&R CW CONN.	F GAS CONN.	G TOP VENT HT.	WTR. CONN.	GAS CONN. DIA.	RELIEF VALVE OPEN	STD. WT. (KG)	ASME (KG)
V	●	▲	★	PDV-80S-150-3N	43.9	772	1378	549	394	303	1603	718	1654	1303	525	438	1732	38(T&F) 51(R)	19	19	293	—
V	●	▲	★	PDV-80S-200-3N	58.6	958	1836	734	526	303	1603	718	1654	1303	525	438	1732	38(T&F) 51(R)	19	19	293	—
V	●	▲	★	PDV-80S-250-3N(A) <sup>LP</sup>	73.2	1439	2294	916	655	303	1603	718	1654	1303	525	438	1856	38(T&F) 51(R)	19	25	293	327
V	●	▲	★	PDV-100S-150-3N	43.9	829	1378	549	394	379	1832	718	1883	1532	525	438	1961	38(T&F) 51(R)	19	19	333	—
V	●	▲	★	PDV-100S-200-3N	58.6	1007	1836	734	526	379	1832	718	1883	1532	525	438	1961	38(T&F) 51(R)	19	19	333	—
V	●	▲	★	PDV-100S-250-3N(A) <sup>LP</sup>	73.2	1200	2294	916	655	379	1832	718	1883	1532	525	438	2084	38(T&F) 51(R)	19	25	333	370

To order LP models change suffix "N" to "X"

To order LowNO<sub>x</sub> Construction add suffix "E" before warranty designator. example: (PDV100S200E3N)

V - 115V A.C. Required

● - Electronic Ignition

▲ - 80% Thermal Efficient

★ - Listed with California Energy Commission

(A) - ASME

T = Top, F = Front, R = Rear

These models meet or exceed the Thermal Efficiency Requirements and Standby Loss of ASHRAE 90.1b current standard. Energy Saver Series feature Hand Hole Cleanout on all models.

Recoveries and First Hour Delivery Rating are based on Thermal Efficiencies ranging up to 80%.

150 PSI (1034 kPa) Working Pressure, 300 PSI (2068 kPa) Test Pressure.

Low-Nox Inputs	Recovery @ Degree Rise			
	1st Hour @100°F	40°F	100°F	140°F
PDV-80S-150 – 150,000 BTU	201	364	145	104
PDV-80S-200 – 180,000 BTU	250	436	175	125
PDV-80S-250 – 220,000 BTU	298	533	213	152
PDV-100S-150 – 150,000 BTU	215	364	145	104
PDV-100S-200 – 180,000 BTU	245	436	175	125
PDV-100S-250 – 220,000 BTU	283	533	213	152

Propane Gas Inputs			1ST HR. DEL. GAL. @ 100°F RISE/ LITER @ 56°C RISE	RECOVERY @ DEGREE RISE GPH/LPH		
				40°F/22°C	100°F/56°C	140°F/78°C
PDV-80S-250	225,000BTU/H	65.9KW	274/	545/2063	218/825	156/590
PDV-100S-250	225,000BTU/H	65.9KW	288/1090	545/2063	218/825	156/590

All models are design certified by CSA International (formerly AGA/CGA) 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 parallel.

### Suitable for Water (Potable) Heating and Space Heating

Toxic chemicals, such as those used for boiler treatment, shall NEVER be introduced into this system. This unit may NEVER be connected to any existing heating system or component(s) previously used with a non-potable water heating appliance.

### 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/H/KW, and a minimum recovery of \_\_\_\_\_ GPH/LPH at 100°F (56°C) temperature rise. It shall be design certified by CSA International (formerly AGA/CGA) for 180°F (82°C) application, either with or without a separate storage tank. The tank shall be lined with Vitraglas® vitreous enamel and shall have a bolted hand hole cleanout. The tank shall have two or three extruded magnesium anode rods installed in separate head couplings and extended to within three inches (76mm) of the bottom. The heater shall be insulated with not less than 1 1/2" (51mm) of Non-CFC foam. This water heater shall be equipped with an electronic ignition system, and an ASME rated T&P relief valve and an induced draft blower motor for direct venting. (115V AC required). The entire installation shall be made in compliance with state and local codes and ordinances.

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

Vitraglas® and Hydrojet® are registered trademarks of Bradford White® Corporation.

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

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**For Everything Hot Water**