

Residential PDX1 Power Direct Vent Energy Saver Gas Water Heater



Photo is of
PDX1-40S6FBN

FEATURING:



The PDX1 FVIR Defender Safety System® Models Feature:

- **Closed Combustion Venting System**—Power Direct Vent models are ideal for installations which lack sufficient air for combustion, such as new construction homes or additions which are tightly insulated. These models use a twin pipe system where combustion air is drawn from outside the building in one pipe, and combustion products are expelled to the outside in another pipe.
- **Honeywell Self Diagnostic Electronic Gas Control**—Intelligent gas control with spark to pilot ignition system eliminates the constant burning pilot. This results in savings of pilot gas during stand by periods (120 V.A.C.).
 - **Enhanced Performance**—Proprietary algorithms provide enhanced First Hour Delivery ratings and tighter temperature differentials.
 - **Advanced Temperature Control System**—Microprocessor constantly monitors and controls burner operation to maintain consistent and accurate temperature water temperature levels.
 - **Intelligent Diagnostics**—An exclusive green LED light prompts the installer during start-up and provides fifteen different diagnostic codes to assist in troubleshooting.
 - **Pilot On Indication**—Flashing green LED provides positive indication that pilot is on.
- **Compatible With Optional Accessory Packages**—Performance Package, Protection Package and Inlet Shut-Off Valve.
- **Cast Aluminum Air Intake Boot**—A cast molded air intake boot design provides exceptional durability during installation and operation.
- **Flammable Vapor Sensor**—Electronic sensor prevents burner operation if flammable vapors are detected. The sensor will also prevent burner operation if there is an ongoing flammable vapor burn inside the combustion chamber.
- **Factory Installed Hydrojet® Total Performance 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.
- **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)
- **Optional Concentric Vent Kit Termination**—2" termination fitting provides for only one exit opening through a wall or roof. (Subtract 10ft. for intake pipe and 10ft. for exhaust pipe when calculating total vent length.)
- **Horizontal and Vertical Venting**—With 2" or 3" PVC, ABS, or CPVC. The equivalent feet of intake venting cannot be greater than the equivalent feet of exhaust venting.
- **1" Non-CFC Foam Insulation**—Surrounds the tank surface, saving energy by retarding loss of heat.
- **Water Connections**—3/4" NPT factory installed true dielectric fittings extend water heater life and makes installation easier.
- **Factory Installed Heat Traps**—Design incorporates a flexible disk that reduces heat loss in piping and eliminates the potential for noise generation.
- **Protective Magnesium Anode Rod**—Provides added protection against corrosion for long trouble-free service.
- **T&P Relief Valve**—Included.
- **Low Restriction Brass Drain Valve**—Durable tamper proof design.

6 or 10-Year Limited Tank Warranties / 6 or 10-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.

Residential Power Direct Vent Gas Water Heater

PDX1 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		Recovery at 90°F Rise*				A Floor to Exhaust Outlet in.	B Jacket Dia. in.	C Vent Size in.	D Floor to T&P Conn. in.	E Floor to Gas Conn. in.	F Floor to Top of Heater in.	H Floor to Air Intake in.	J Floor to Water Conn. in.	K Depth in.	Approx. Shipping Weight lbs.		
	U.S. Gal.	Imp. Gal.	Nat. BTU/Hr. Input	LP BTU/Hr. Input	Nat. U.S. GPH	Imp. U.S. GPH											LP U.S. GPH	
PDX1-40S6FBN	40	33	40,000	38,000	43	36	41	34	58 ³ / ₄	20	2	42 ³ / ₄	14	48 ³ / ₄	55 ³ / ₈	50 ¹ / ₈	30 ¹ / ₂	146
PDX1-50S6FBN	50	42	40,000	38,000	43	36	41	34	59 ⁵ / ₈	22	2	43 ¹ / ₈	14	49 ⁵ / ₈	56 ³ / ₈	51	32 ³ / ₈	171

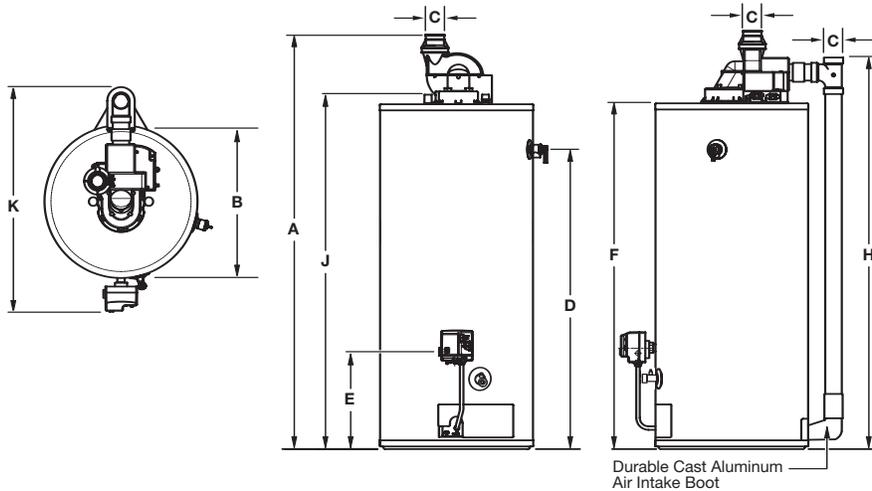
Model Number	Capacity		Recovery at 50°C Rise*				A Floor to Exhaust Outlet mm.	B Jacket Dia. mm.	C Vent Size mm.	D Floor to T&P Conn. mm.	E Floor to Gas Conn. mm.	F Floor to Top of Heater mm.	H Floor to Air Intake mm.	J Floor to Water Conn. mm.	K Depth mm.	Approx. Shipping Weight kg.
	Liters	Liters	Nat. kW Input	LP kW Input	Nat. Liters/Hour	LP Liters/Hour										
PDX1-40S6FBN	151	11.7	11.0	163	155	1473	508	50	1067	346	1219	1397	1270	762	66	
PDX1-50S6FBN	190	11.7	11.0	163	155	1499	559	50	1092	346	1245	1422	1295	813	78	

Propane models feature a Titanium Stabilized Stainless Steel propane burner. For Propane (LP) models change suffix "BN" to "SX".

For 10 year model, change suffix "6" to "10".

*Based on manufacturers rated recovery efficiency.

110 V.A.C Required for Power Venting / 110 V.A.C., 60HZ, 3.1 Amperes.



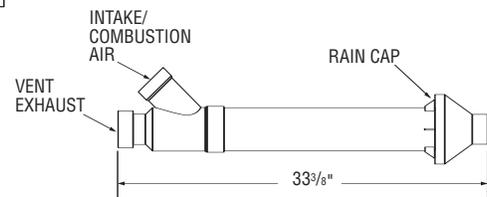
2" Vent Pipe	PDX1-40S PDX1 50S
Max. Intake Length	35 ft.
Max. Exhaust Length	35 ft.
Min. Vent Length	7 ft.
Number of 90° Elbows†	1 30 ft. 2 25 ft. 3 20 ft.

3" Vent Pipe	PDX1-40S PDX1 50S
Max. Intake Length	85 ft.
Max. Exhaust Length	85 ft.
Min. Vent Length	7 ft.
Number of 90° Elbows†	1 80 ft. 2 75 ft. 3 70 ft.

Subtract 5ft. for each additional 90° elbow.

† Consult I&O Manual when using four or more elbows.

2" Concentric Vent Kit Termination



P/N 239-44069-02

Meets NAECA Requirements

General

All gas water heaters are certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa). All water connections are 3/4" NPT (19mm) on 8" (203mm) centers. All gas connections are 1/2" (13mm).

All models design certified by CSA International (formerly AGA/CGA), to meet ANSI standard Z-21.10.1 and peak performance rated.

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

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.



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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