

Residential Power Direct Vent Gas Water Heater

The Power Direct Vent Models Feature:

- ENERGY STAR® Qualified Some models meet or exceed requirements for ENERGY STAR® per the latest ENERGY STAR® criteria revision, as well as most utility rebate programs.
- Bradford White ICON System®—Intelligent gas control with spark to pilot ignition system eliminates the constant burning pilot. This results in savings of pilot gas during standby periods (120 VAC).
 - Enhanced Performance—Proprietary algorithms provide enhanced First Hour Rating and tighter temperature differential.
 - Advanced Temperature Control System Microprocessor constantly monitors and controls burner operation to maintain consistent and accurate water temperature levels.
 - Intelligent Diagnostics—An exclusive green LED light prompts the installer during start-up and provides ten different diagnostic codes to assist in troubleshooting.
 - Pilot On Indication Flashing green LED provides positive indication that pilot is on.
 - Separate Immersed Thermowell High-strength advanced polymer composite
 thermowell provides isolation between electric temperature sensor and surrounding water.
 No need to drain the tank when removing gas valve.
- 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.
- Cast Aluminum Air Intake Boot—A cast molded air intake boot design provides exceptional durability during installation and operation.
- Horizontal and Vertical Venting PVC, ABS, or CPVC. The equivalent feet of intake venting cannot be greater than the equivalent feet of exhaust venting.
- Optional Concentric Vent Kit Termination Termination fitting provides for only one exit opening through a wall or roof. (Subtract 10ft. (3m) for intake pipe and 10ft. (3m) for exhaust pipe when calculating total vent length.)
- Flammable Vapor Sensor Electronic sensor prevents burner operation if flammable vapors are detected. The sensor will also prevent operation if there is ongoing flammable vapors burning inside the combustion chamber.
- Factory-Installed Hydrojet® Total Performance System—Sediment reducing device that also increases first hour rating of hot water while minimizing temperature build-up in tank.
- Vitraglas® Lining—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).
- Insulation System 2" (51mm) Non-CFC foam insulation covers the sides and top of the tank, reducing heat loss. This results in less energy consumption, improved efficiencies, and jacket rigidity.
- Water Connections 3/4" (19mm) NPT factory-installed true dielectric fittings extend water heater life and simplify water line connections.
- Side Connections 3/4" (19mm) NPT tappings allow easy connections for space heating applications (Potable water only) (RG2PDV50H6N & RG2PDV75H6N only).
- Factory Installed Heat Traps—Design incorporates a flexible disk that reduces heat loss in piping and eliminates the potential for noise generation.
- Protective Anode Rod Provides added protection against corrosion for long-term, trouble-free service.
- T&P Relief Valve—Installed.
- Low Restrictive Brass Drain Valve—Durable tamper proof design.
- NOx Emissions Less than 40 ng/J.





















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.

Power Direct Vent Gas Water Heater

Power Direct Vent Models

NATURAL GAS AND LIQUID PROPANE GAS

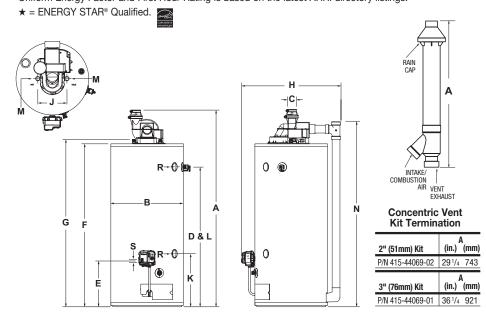
Meet or exceed ASHRAE 90.1 (latest edition). C.E.C. Listed 78% Recovery Efficiency

NATURAL DAS AND LIQUID FROFANE DAS														- '	, , , , , , , ,	,				
Model Number	Rated Nominal Volume	DOE Rated			First				very at Rise*		Model Number		Rated Nominal Volume	DOE Rated			First			overy at °C Rise*
	U.S. Imp Gal. Gal.			LP BTU/Hr. Input	Hour Rating (Gal.)	Uniform Energy Factor	U.S. GPH	lmp. GPH	U.S. I	LP mp. GPH			Liters	Storage Volume (Liters)	kW Input	LP kW Input	Hour Rating (Liters)	Uniform Energy Factor	Liters/ Hour	LP / Liters/ Hour
★ RG2PDV40S6N	40 33	38	40,000	38,000	75	0.70	43	36	41	34	★ R0	G2PDV40S6N	151	144	11.7	11.1	284	0.70	163	155
★ RG2PDV50S6N	50 42	48	40,000	38,000	80	0.68	43	36	41	34	★ R0	G2PDV50S6N	189	182	11.7	11.1	303	0.68	163	155
★ RG2PDV50H6N	48 40	46	60,000	60,000	103	0.68	65	54	65	54	★ R0	G2PDV50H6N	182	174	17.6	17.6	390	0.68	246	246
RG2PDV75H6N	75 62	72	80,000	78,000	134	0.69	86	72	84	70	RO	S2PDV75H6N	284	273	23.4	22.9	508	0.69	326	318
Model Number	A Floor to Exhaust Conn. 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.		G Floor to Water Conn. in.	H Dep in	oth	J C/L of Water Conn. in.	K Floor to Space Heating Inlet in.	Sp. Heating	L or to ace g Outlet n	M Water Conn. NPT in.	N Floor t Air Intak in.	to Sp Hea e Conr		S Gas Conn. Size in.	Approx. Shipping Weight Ibs.
★ RG2PDV40S6N	597/8	22	2 or 3	42 9/16	13 15/16	499/16	4	19 ¹⁵ / ₁₆	323	1/8	8	N/A	N	I/A	3/4	597/16	i N	/A	1/2	161
★ RG2PDV50S6N	607/8	24	2 or 3	431/16	13 15/16	50 9/16		52	343	1/8	8	N/A	N	I/A	3/4	60 7/16	s N	/A	1/2	192
★ RG2PDV50H6N	691/16	22	3 or 4	52 ⁵ / ₁₆	13 15/16	595/16	-	3/ ₁₆	30 ¹	/2	11	15 ¹³ / ₁₆	52	5/16	3/4	69 3/16	3	1/4	1/2	204
RG2PDV75H6N	69 1/2	26	3 or 4	51 ¹⁵ / ₁₆	13 15/16	5911/16	-	3/ ₁₆	353	1/8	11	16 11/16	51	15/16	3/4	69 9/16	3	/4	1/2	291
Model Number	A Floor to Exhaust Conn. 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.		G Floor to Water Conn. mm.	H Dep mr	oth	J C/L of Water Conn. mm.	K Floor to Space Heating Inlet mm.	Sp. Heating	L or to ace g Outlet m.	M Water Conn. NPT mm	N Floor t Air Intak mm.	to Sp Hea e Conr	ı. Size	S Gas Conn. Size mm.	Approx. Shipping Weight kg.
★ RG2PDV40S6N	1521	559	51 or 76	1081	354	1259		1268	82	2	203	N/A	N	I/A	19	1510	N	/A	13	73
★ RG2PDV50S6N	1546	610	51 or 76	1094	354	1284		1321	87	3	203	N/A	N	/A	19	1535	N	/A	13	87
★ RG2PDV50H6N	1754	559	76 or 102	1329	354	1507		1529	77	5	279	402	13	329	19	1757	1	9	13	93
RG2PDV75H6N	1765	660	76 or 102	1319	354	1516		1529	89	9	279	424	13	319	19	1767	1	9	13	132

Propane models feature a Titanium Stabilized Stainless Steel propane burner. For Propane (LP) models change suffix "N" to "X". For 10 year model, change suffix "6" to "10".

110 VAC Required for Power Venting / 110 VAC, 60Hz., 3.1 Amperes.

Uniform Energy Factor and First Hour Rating is based on the latest AHRI directory listings.



2" (51mm) Vent Pipe		RG2PDV40S6N RG2PDV50S6N								
Max. Intake Length		35 ft. 10.7m								
Max. Exhaust Lengt	h	35 ft. 10.7m								
Min. Vent Length		7 ft. 2.1m								
Number	1	30 ft. 9.1m								
of	2	25 ft. 7.6m								
90° Elbows	3	20 ft. 6.1m								
3" (76mm) Vent Pipe)V40S6N)V50S6N	RG2PDV50H6N RG2PDV75H6N						
Max. Intake Length		85 ft.	26.0m	60 ft.	18.3m					
Max. Exhaust Lengt	h	85 ft.	26.0m	60 ft.	18.3m					
Min. Vent Length		7 ft.	2.1m	7 ft.	2.1m					
Number	1	80 ft.	24.4m	55 ft.	16.8m					
of	2	75 ft.	23.0m	50 ft.	15.2m					
90° Elbows	3	70 ft.	21.3m	45 ft.	13.7m					
4" (102mm) Vent Pipe		RG2PDV50H6N RG2PDV75H6N								
Max. Intake Length		100 ft. 30.5m								
Max. Exhaust Lengt	h	100 ft. 30.5m								
Min. Vent Length		7 ft. 2.1m								
Number	1	95 ft. 29.0m								
of	2	90 ft. 27.4m								
90° Elbows	3		85 ft.	26.0m						
Cultivast Eft. (1 Em) for each										

Subtract 5ft. (1.5m) for each additional 90° elbow.

General:

Meets NAECA or EPACT Requirements, as applicable.

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). All gas connections are 1/2" (13mm). All models design-certified by CSA International (formerly AGA/CGA), to meet ANSI standard Z21.10.1 (except RG2PDV75H6N = Z21.10.3) 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.

- BRADFORD WHITE IS -



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Email techserv@bradfordwhite.com

Products made by Bradford White are manufactured in the United States using the finest raw materials and components from around the world.

^{*} Based on manufacturer's rated recovery efficiency.