

Power Direct Vent Residential Gas Water Heater

Features

- Defender Safety System[®]—Designed to be the safest & most reliable flammable vapor ignition resistant system in the industry with a proven track record since 2003.
 Featuring an advanced ScreenLok[®] technology flame arrestor design, flammable vapor sensor, sight window, and designed to be maintenance-free.
- Bradford White ICON System[®]—Intelligent gas control that eliminates constant burning pilot, saving gas during standby periods (120 VAC). Proprietary algorithms provide tighter temperature differential and consistent water temperature levels up to 160°F (70°C). LED light indicates pilot function or operation status/service required.
- Vitraglas[®] Lining with Microban[®]—An exclusively engineered enamel formula that provides superior tank protection from the corrosive effects of water; and with Microban[®] antimicrobial product protection to help prevent the growth of bacteria, mold and mildew on the surface of the tank lining.
- **Hydrojet**[®] **Total Performance System**—Sediment reducing device that also increases first hour rating of hot water while minimizing temperature build-up in tank.

Additional Details

- Closed Combustion Venting System—Ideal for tightly insulated installations with insufficient air for combustion. Twin pipe system: one pipe draws in outside air, while the other expels combustion products.
- Cast Aluminum Air Intake Boot—Provides exceptional durability during installation and operation.
- Flexible Venting—Horizontal/vertical venting with PVC, ABS, or CPVC.* Concentric Vent Kit termination provides single exit point (subtract 10ft (3m) for both intake and exhaust pipes when calculating length.
- **Insulation System**—Non-CFC foam covers the tank, reducing heat loss, energy consumption, and improves efficiency and jacket rigidity.
- Factory Installed Heat Traps—Incorporates a flexible disk that reduces heat loss in piping and prevents noise.
- Water Connections—Factory-installed true dielectric waterways extend water heater life and simplify water line connections.
- 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.

*Intake venting length cannot exceed exhaust venting length.

6 or 10-Year Limited Tank Warranties / 6-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. See complete copy of the warranty included with the heater for limitations. Microban[®] antimicrobial product protection helps prevent the growth of bacteria, mold and mildew that may affect the product. The built-in antimicrobial properties do not protect users or others from disease-causing organisms. Microban[®] is a registered trademark of Microban Products Company.



Photo is of RG2PDV40S6N









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SPECIFICATIONS

Natural Gas and Liquid Propane Gas

These water heaters meet or exceed all or portions of (where applicable) the minimum efficiency requirements of ASHRAE Standard 90.1 (latest edition). C.E.C. Listed. 78% Recovery Efficiency.

Model Number	Rated Nominal Volume	DOI Rate Stora	d		First Hour Rating	Uniform Energy Factor	Recovery at 90°F Rise*			Model Number		Rated Nominal Volume	DOE Rated Storage		F		Uniform Energy Factor	Recovery at 50°C Rise*		
	U.S. Im Gal. Ga		BTU/Hr.	LP BTU/Hr. Input	Gal.		U.S. Gph	lmp. GPH	LP U.S. GPH	LP Imp. GPH			Liters	Volume Liters	kW Input	LP kW Input	Liters		Liters/ Hour	LP / Liters/ Hour
RG2PDV40S6N	40 33	38	40,000	38,000	75	0.70	43	36	41	34	RG2F	DV40S6N	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	RG2F	DV50S6N	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	RG2F	DV50H6N	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	RG2F	DV75H6N	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 loor to Water Conn. in.		H epth in.	J C/L of Water Conn. in.	K Floor to Space Heating Inlet in.	l Floo Spa Heating ii	ace	M Water Conn. NPT in.	N Floor to Air Intake in.	Sp Hea Conn	R ace ting . Size n.	S Gas Conn. Size in.	Approx. Shipping Weight Ibs.
RG2PDV40S6N	59 ⁷ /8	22	2 or 3	42 ⁹ /16	13 ¹⁵ /16	49 ⁹ /16	4	9 ¹⁵ / ₁₆	3	2 ³ /8	8	N/A	N	/A	3/4	59 ⁷ / ₁₆	N	Ά	1/2	161
RG2PDV50S6N	607/8	24	2 or 3	431/16	13 ¹⁵ /16	50 ⁹ /16		52	3	4 ³ /8	8	N/A	N	/A	3/4	60 7/16	N	/A	1/2	192
RG2PDV50H6N	69 ¹ /16	22	3 or 4	52 ⁵ /16	13 ¹⁵ /16	59 ⁵ /16	6	60 ³ /16	3	0 1/2	11	15 ¹³ /16	52	5/ ₁₆	3/4	69 ³ /16	3	/4	1/2	204
RG2PDV75H6N	69 1/2	26	3 or 4	51 ^{15/16}	13 ¹⁵ /16	5911/16	6	3/ 16	3	5 ³ /8	11	16 ¹¹ / ₁₆	511	5/16	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 loor to Water Conn. mm.		H epth nm.	J C/L of Water Conn. mm.	K Floor to Space Heating Inlet mm.	l Floo Spa Heating m	ace 3 Outlet	M Water Conn. NPT mm	N Floor to Air Intake mm.	o Sp Hea Conn	R ace ting . Size m.	S Gas Conn. Size mm.	Approx. Shipping Weight kg.
RG2PDV40S6N	1521	559	51 or 76	1081	354	1259		1268	8	322	203	N/A	N	/A	19	1510	N	/A	13	73
RG2PDV50S6N	1546	610	51 or 76	1094	354	1284		1321	8	373	203	N/A	N	/A	19	1535	N	Ά	13	87
RG2PDV50H6N	1754	559	76 or 102	1329	354	1507		1529	7	775	279	402	13	29	19	1757	1	9	13	93
RG2PDV75H6N	1765	660	76 or 102	1319	354	1516		1529	8	399	279	424	13	19	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".

Based on manufacturer's rated recovery efficiency.

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

GENERAL:

Meets NAECA 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 34" 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.

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.

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



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