



eF Series[®] Power Direct Vent Residential Gas Water Heater

Features

- 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

- Vertical, Dual-pass Heat Exchanger System—Highly efficient helical-finned 5" (127mm) primary heat exchanger and three 2" (51mm) stainless steel baffled secondary tubes. Vertical design prevents corrosion issues common with less durable heat exchanger designs.
- 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.
- Flexible Venting—Can be installed as power vent or power direct vent (PDV can be balanced or unbalanced and terminate on different walls/pressure zones). Horizontal/vertical venting with PVC, ABS, or CPVC, or stainless steel.* 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.
- Water Connections 3/4" (19mm) NPT factory-installed true dielectric fittings extend water heater life and simplify water line connections.
- Factory Installed Heat Traps-Incorporates a flexible disk that reduces heat loss in piping and prevents noise.
- Two Protective Anode Rods-Provide 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.



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Photo is of RC2PDV50H6N







eF Series® Power Direct Vent



These water heaters meet or exceed all or portions of (where applicable) the minimum

efficiency requirements of ASHRAE Standard 90.1 (latest edition).

Residential Gas Water Heater

SPECIFICATIONS

Natural Gas and Liquid Propane Gas

Model Number	Rateo Nomin Volum	al	DOE Rated Storage			First Hour Rating	Uniform Energy Factor			very at Rise*		Model Number		Rated Nominal Volume	DOE Rated Storage			First Hour Rating	Uniform Energy Factor		overy at °C Rise*
		np. ìal.	Volume Gal.	BTU/Hr. Input	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
RC2PDV50H6N	50	42	48	76,000	76,000	125	0.80	89	77	93	77	RC2PDV50H	16N	190	185	22.0	22.0	473	0.80	337	352
Model Number	A Floor to Vent 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 t Top o Heate in.	f	G Floor to Water Conn. in.	H Depth in.	J C/L of Water Conn. in.		K Floor to Space ating Inlet in.	L Floor t Space Heating O in.		M Water Conn. NPT in.	N Floor to Intake Conn. in.	R Space Heating Conn. Size in.	S Gas Conn. Size in.	Approx. Shipping Weight Ibs.
RC2PDV50H6N	67 ⁷ /16		24	2, 3, and	4	463/8	141/8	56 ¹ /4		57	33 3/4	8		15 5/8	46 ³ /8		3/4	655/8	3/4	1/2	290
Model Number	A Floor to Vent Conn.		B Jacket Dia.	C Vent Size		D Floor to T&P Conn.	E Floor to Gas Conn.	F Floor t Top o Heate	f	G Floor to Water Conn.	H Depth	Water Conn.		K Floor to Space ating Inlet	L Floor to Space Heating O		M Water Conn. NPT	L Floor to Intake Conn.	R Space Heating Conn. Size	S Gas Conn. Size	Approx. Shipping Weight
	mm.		mm.	mm.		mm.	mm.	mm.		mm.	mm.	mm.		mm.	mm.		mm.	mm.	mm.	mm.	kg.

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

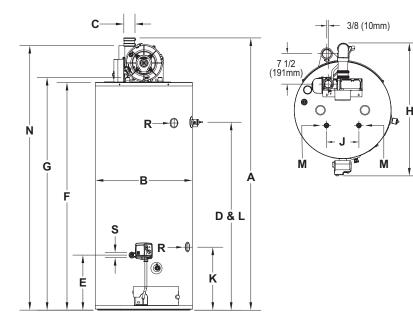
For 10 year model, change suffix "6" to "10".

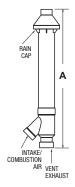
* Based on manufacturer's rated recovery efficiency.

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.

Optional Condensate Neutralizer Kit: p/n A2123601.





Concentric Vent Kit Termination							
2" Kit	A (in.)						
P/N 415-44069-02	29 ¹ / ₄						
3" Kit	A (in.)						
P/N 415-44069-01	36 ¹ /4						
51mm Kit	A (mm)						
P/N 415-44069-02	743						
76mm Kit	A (mm)						
P/N 415-44069-01	921						

RC2PDV50H6N		2" Vent Pipe	3" Vent Pipe	4" Vent Pipe		
Max. Intake Length		50 ft.	120 ft.	180 ft.		
Min. Exhaust Length		†50 ft.	†120 ft.	†180 ft.		
Min. Equivalent Length	1	7 ft.	15 ft.	15 ft.		
Number	1	45 ft.	115 ft.	175 ft.		
of	2	40 ft.	110 ft.	170 ft.		
90° Elbows	3	35 ft.	105 ft.	165 ft.		
RC2PDV50H6N		51mm Vent Pipe	76mm Vent Pipe	102mm Vent Pipe		
RC2PDV50H6N Max. Intake Length						
		Vent Pipe	Vent Pipe	Vent Pipe		
Max. Intake Length	1	Vent Pipe 15.2m	Vent Pipe 36.6m	Vent Pipe 54.9m		
Max. Intake Length Min. Exhaust Length	1	Vent Pipe 15.2m †15.2m	Vent Pipe 36.6m †36.6m	Vent Pipe 54.9m †54.9m		
Max. Intake Length Min. Exhaust Length Min. Equivalent Length		Vent Pipe 15.2m †15.2m 2.1m	Vent Pipe 36.6m †36.6m 4.6m	Vent Pipe 54.9m †54.9m 4.6m		

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

† For high altitude installations, consult the installation instructions.

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

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.



Sales: 800-523-2931 24/7 Technical Support: 800-334-3393 • Email TechServ@bradfordwhite.com



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