

Light-Duty eF Series®

Power Direct Vent

Commercial 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 180°F (82°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 tube and three, stainless steel baffled, 2" (51mm) secondary heat exchanger tubes.
 - Vertical design eliminates corrosion protection challenges of condensing water heaters that utilize less durable heat exchanger designs.
- **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.
- **Venting Flexibility**—The eF Series® can be installed as a power direct vent or power vent. If power direct vent, they can be balanced or unbalanced and terminate on different walls or pressure zones.
 - Horizontal and Vertical Venting**—PVC, CPVC, Polypropylene, Stainless Steel or ABS (Not approved for Canada). 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.)
- **Insulation System**—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.
- **3/4" (19mm) NPT Side Connections**—3/4" (19mm) NPT tapings that allow easy connections for space heating applications (potable water only).
- **Factory-Installed Heat Traps**—Design incorporates a flexible disk that reduces heat loss in piping and eliminates the potential for noise generation.
- **Two Protective Anode Rods**—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.



Photo is of LC2PDV50H763N

ICON
System

VITRAGLAS
SUPERIOR PROTECTION SINCE 1947
+
MICROBAN
Hydrojet



3 or 5-Year Limited Tank Warranties / 1-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.

Light-Duty eF Series® Power Direct Vent Commercial Gas Water Heater

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).

Model Number	Rated Nominal Volume		DOE Rated Storage Volume			First Hour Rating	Uniform Energy Factor	Recovery at 100°F Rise*				Model Number	Rated Nominal Volume	DOE Rated Storage Volume			First Hour Rating	Uniform Energy Factor	Recovery at 56°C Rise*	
	U.S. Gal.	Imp. Gal.		Gal.	BTU/Hr. Input			LP BTU/Hr. Input	Gal.	U.S. GPH	Imp. GPH				LP U.S. GPH	LP Imp. GPH			Liters	Liters
LC2PDV50H763N	50	42	48	76,000	76,000	125	0.80	80	70	84	70	LC2PDV50H763N	190	185	22.0	22.0	473	0.80	303	318
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 to Top of Heater in.	G Floor to Water Conn. in.	H Depth in.	J C/L of Water Conn. in.	K Floor to Space Heating Inlet in.	L Floor to Space Heating Outlet 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 lbs.				
LC2PDV50H763N	67 ⁷ / ₁₆	24	2, 3, and 4	46 ³ / ₈	14 ¹ / ₈	56 ¹ / ₄	57	33 ³ / ₄	8	15 ³ / ₈	46 ³ / ₈	¾	65 ⁵ / ₈	¾	½	290				
Model Number	A Floor to Vent 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 Depth mm.	J C/L of Water Conn. mm.	K Floor to Space Heating Inlet mm.	L Floor to Space Heating Outlet mm.	M Water Conn. NPT mm.	N Floor to Intake Conn. mm.	R Space Heating Conn. Size mm.	S Gas Conn. Size mm.	Approx. Shipping Weight kg.				
LC2PDV50H763N	1713	610	51, 76, and 102	1178	359	1429	1448	857	203	397	1178	19	1667	19	13	131				

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

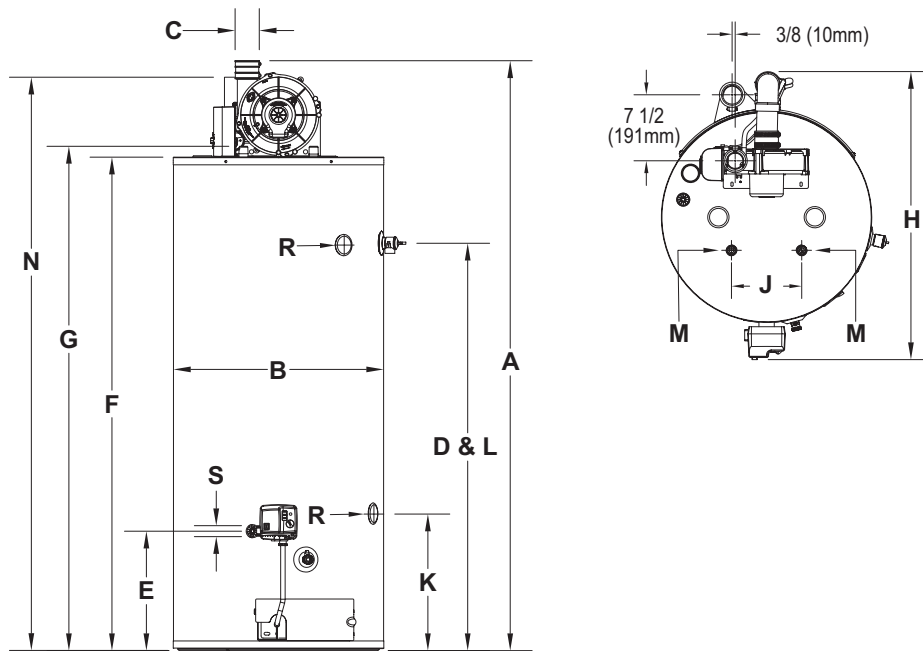
For 5 year models change suffix from "3" to "5".

* 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	T (in.)
P/N 415-44069-02	29 ¹ / ₄
3" Kit	T (in.)
P/N 415-44069-01	36 ¹ / ₄
51mm Kit	T (mm)
P/N 415-44069-02	743
76mm Kit	T (mm)
P/N 415-44069-01	921

LC2PDV50H763N	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	7 ft.	15 ft.	15 ft.
Number of 90° Elbows	1 45 ft. 2 40 ft. 3 35 ft.	115 ft. 110 ft. 105 ft.	175 ft. 170 ft. 165 ft.
LC2PDV50H763N	51mm Vent Pipe	76mm Vent Pipe	102mm Vent Pipe
Max. Intake Length	15.2m	36.6m	54.9m
Min. Exhaust Length	†15.2m	†36.6m	†54.9m
Min. Equivalent Length	2.1m	4.6m	4.6m
Number of 90° Elbows	1 13.7m 2 12.2m 3 10.7m	35.1m 33.6m 32.0m	53.3m 51.9m 50.3m

Subtract 5ft. (1.5m) for each additional 90° elbow.
† For high altitude installations, consult the installation instructions.

GENERAL:

Meets NAECA Requirements.

All gas water heaters are certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa). All potable water connections are 3/4" NPT (19mm). All gas connections 1/2" (13mm). All models design-certified by CSA International, ANSI Z21.10.1 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.

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

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