

Light-Duty Power Direct Vent

Commercial 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 (LG2PDV50H603N only).
- 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

- 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.
- 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 tappings 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.
- 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.



























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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).

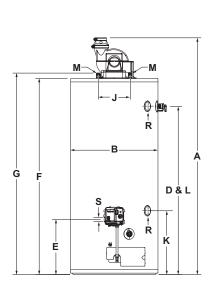
Model Number	Rated Nominal Volume				First		Recovery at 100°F Rise*				Model Number		Rated Nominal Volume				First		Recovery at 56°C Rise*	
	U.S. Im Gal. Ga			LP BTU/Hr. Input	Hour Rating (Gal.)	Uniform Energy Factor	U.S. GPH	lmp. GPH	LP U.S. GPH	LP Imp. GPH			Liters		kW nput	LP kW Input	Hour Rating (Liters)	Uniform Energy Factor	Liter Hou	
LG2PDV50H603N	48 40)	60,000	60,000	103	0.68	58	48	58	48	LG2PD	V50H603N	182		17.6	17.6	390	0.68	220	220
LG2PDV75H803N	75 62	2	80,000	78,000	134	0.69	77	64	76	63	LG2PD	V75H803N	284		23.4	22.9	508	0.69	292	288
Model Number	A Floor to Exhaust Conn. in.	B Jacke 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.	V	G oor to later onn. in.		H epth 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 Air Intake in.	R Spac Heati Conn. S in.	e G ng Co Size S	S as onn. ize n.	Approx. Shipping Weight Ibs.
LG2PDV50H603N	693/16	22	3 or 4	521/4	1311/16	593/16	5	913/16	3	07/8	11	153/4	521/4	3/4		691/8	3/4	1	/2	205
LG2PDV75H803N	691/4	26	3 or 4	51 ⁷ /8	1311/16	591/4	6	013/16	3	5 ¹ /8	11	101/4	51 ⁷ /8	3/4		693/4	3/4	1	/2	392
Model Number	A Floor to Exhaust Conn. mm.	B Jacke Dia. mm.	C Vent Size mm.	D Floor to T&P Conn. mm.	Floor to Gas Conn. mm.	F Floor to Top of Heater mm.	V	G por to later onn. nm.		H epth nm.	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 Air Intake mm.	R Spac Heati Conn. S	ce (c ng Co Size S	S las onn. ize im.	Approx. Shipping Weight kg.
LG2PDV50H603N	1757	559	76 or 102	1327	348	1503	1	519		784	279	400	1327	19		1756	19		13	93
LG2PDV75H803N	1758	660	76 or 102	1318	348	1505	1	544		892	279	260	1318	19		1772	19		13	178

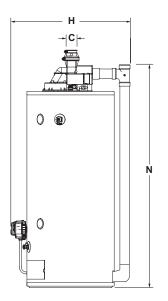
Propane models feature a Titanium Stabilized Stainless Steel propane burner. For Propane (LP) models change suffix "N" to "X". For 5 year models change suffix from "3" to "5".

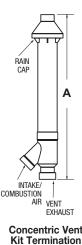
Based on manufacturer's rated recovery efficiency.

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.







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INTAKE COMBUSTION All	N R VEN	IT IAUST
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LG2PDV75H803N		3" Vent Pipe	4" Vent Pipe			
Max. Intake Length		60 ft.	100 ft.			
Max. Exhaust Lengt	h	60 ft.	100 ft.			
Min. Vent Length		7 ft.	7 ft.			
Number	1	55 ft.	95 ft.			
of	2	50 ft.	90 ft.			
90°	3	45 ft.	85 ft.			
LG2PDV50H603N LG2PDV75H803N		72mm Vent Pipe	102mm Vent Pipe			
Max. Intake Length		18.3m	30.5m			
Max. Exhaust Lengt	h	18.3m	30.5m			
Min. Vent Length		2.1m	2.1m			
Number	1	17.0m	29.0m			
of	2	15.2m	27.4m			
90°	3	18.0m	26.0m			

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

LG2PDV50H603N

	Α				
3" (76mm) Kit	(in.)	(mm)			
P/N 415-44069-01	36 1/4	921			

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 11" (279mm) centers, all gas connections are 1/2" (13mm). All models design-certified by CSA International, ANSI standard Z21.10.3 and peak performance rated (LG2PV50H653N = ANSI 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.

