

Light Duty Commercial Ultra Low NOx Power Direct Vent Gas Water Heater



Photo is of
ULG2PDV50H503N

FEATURING:



The FVIR Eco-Defender Safety System® Models Feature:

- **Ultra Low NOx Burner with Primary and Secondary Air Distribution Devices**—Ensures proper air to gas ratio for reduction of NOx generated by the combustion process.
- **Closed Combustion Venting System**—Power Direct Vent closed combustion system utilizes external air for combustion and exhausts directly to the outside through a separate two-pipe system. The equivalent feet of intake venting cannot be greater than the equivalent feet of exhaust venting.
- **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 V.A.C.).
 - **Enhanced Performance**—Proprietary algorithms provide enhanced First Hour Delivery ratings and tighter temperature differentials.
 - **Advanced Temperature Control System**—Microprocessor constantly monitors and controls burner operation to maintain consistent and accurate water temperature levels (up to 180°F).
 - **Intelligent Diagnostics**—An exclusive green LED light prompts the installer during start-up and provides ten different diagnostic codes to assist in troubleshooting.
 - **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.
- **Cast Aluminum Air Intake Boot**—A cast molded air intake boot design provides exceptional durability during installation and operation.
- **Flammable Vapor Sensor**—Electronic sensor prevents burner operation if flammable vapors are detected. The sensor will also prevent operation if there is ongoing flammable vapor burn inside the combustion chamber.
- **Factory-Installed Hydrojet® Total Performance System**—Cold water inlet sediment reducing device helps prevent sediment build-up in tank. Increases first hour delivery of hot water while minimizing temperature build-up in tank.
- **Vitraglas® Lining**—Bradford White tanks are lined with 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).
- **Optional Concentric Vent Kit Termination**—Concentric termination fitting provides for only one exit opening through a wall or roof. (Subtract 10ft. for intake pipe and 10ft. for exhaust pipe when calculating total vent length.)
- **Horizontal and Vertical Venting**—PVC, ABS, or CPVC (Maximum equivalent vent length for each pipe on reverse side).
- **2" Non-CFC Foam Insulation**—Covers the sides and top of tank, reducing the amount of heat loss. This results in less energy consumption, improved operation efficiencies, and jacket rigidity.
- **Water Connections**—3/4" NPT factory-installed true dielectric fittings.
- **Side Connections**—3/4" NPT tapings 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 Magnesium Anode Rod.**
- **T&P Relief Valve**—Installed.
- **Low Restriction Brass Drain Valve**—Durable tamper-proof design.
- **Complies with the latest Ultra Low NOx requirement (10 ng/J NOx limit).**

AIRI



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. 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

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed
78% Recovery Efficiency

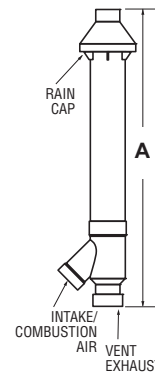
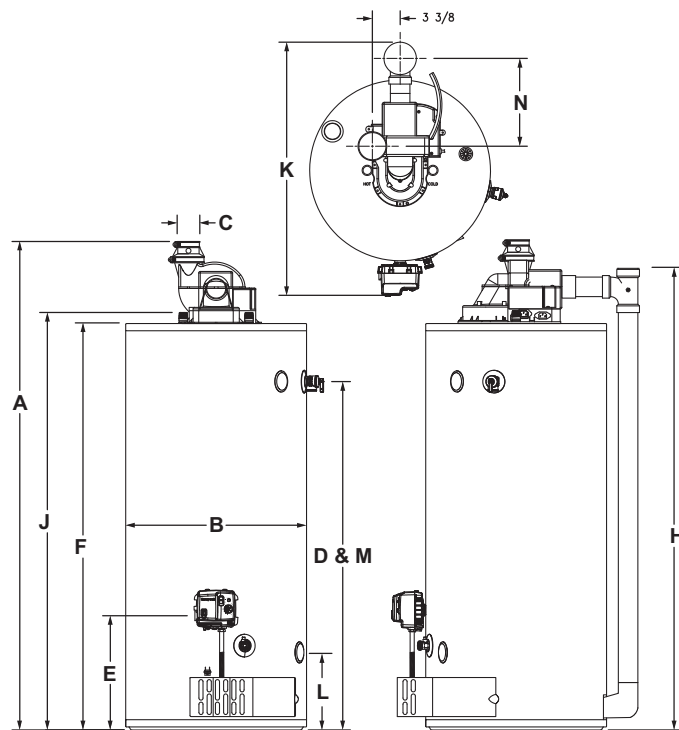
Model Number	Capacity		Nat. BTU/Hr. Input	1st Hour Rating* (Gal.)	Energy Factor	Recovery at 100°F Rise*		Model Number	Capacity		Nat. kW Input	1st Hour Rating* (Liters)	Energy Factor	Recovery at 56°C Rise*	
	U.S. Gal.	Imp. Gal.				Nat. U.S. GPH	Nat. Imp. GPH		Liters	Nat. Liters/ Hour					
ULG2PDV50H503N	48	40	50,000	92	0.68	48	40	ULG2PDV50H503N	182		14.7	348	0.68		182

Model Number	A Floor to Exhaust Outlet 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.	H Floor to Air Intake in.	J Floor to Water Conn. in.	K Depth in.	L Floor to Space Heating Return in.	M Floor to Space Heating Supply in.	N C/L Distance From Intake to Exhaust in.	Approx. Shipping Weight lbs.
ULG2PDV50H503N	69 1/4	22	3 or 4	52 1/4	13 7/8	69 1/4	58 3/4	60	32	15 3/4	52 1/4	9 1/4	201

Model Number	A Floor to Exhaust Outlet 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.	H Floor to Air Intake mm.	J Floor to Water Conn. mm.	K Depth mm.	L Floor to Space Heating Return mm.	M Floor to Space Heating Supply mm.	N C/L Distance From Intake to Exhaust mm.	Approx. Shipping Weight kg.
ULG2PDV50H503N	1759	559	76or102	1327	352	1492	1759	1524	813	400	1327	235	91

Available in Natural Gas only. 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. Energy Factor and First Hour Rating is based on the latest AHRI directory listings.



Concentric Vent Kit Termination

3" Kit	A (in.)
P/N 239-44069-01	36 1/4

ULG2PDV50H503N	3" Vent Pipe	4" Vent Pipe
Max. Intake Length	60 ft.	100 ft.
Max. Exhaust Length	60 ft.	100 ft.
Min. Vent Length	7 ft.	7 ft.
Number of 90° Elbows	1	1
	2	2
	3	3

Subtract 5ft. for each additional 90° elbow.

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 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 Z-21.10.1 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.



For U.S. and Canada field service, contact your professional installer or local Bradford White sales representative.

Sales 800-523-2931 • Fax 215-641-1670 / Technical Support 800-334-3393 • Fax 269-795-1089 • Warranty 800-531-2111 • Fax 269-795-1089

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