

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 VAC).
 - Enhanced Performance—Proprietary algorithms provide enhanced First Hour Rating and tighter temperature differential.
 - Advanced Temperature Control System
 —Microprocessor constantly monitors and controls burner operation to maintain consistent and accurate water temperature levels.
 - Intelligent Diagnostics—An exclusive green LED light prompts the installer during start-up and provides ten different diagnostic codes to assist in troubleshooting.
 - Pilot On Indication—Flashing green LED provides positive indication that pilot is on.
 - 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 vapors burning inside the combustion chamber.
- Factory-Installed Hydrojet® Total Performance System—Sediment reducing device that also increases first hour rating of hot water while minimizing temperature build-up in tank.
- Vitraglas® Lining—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. (3m) for intake pipe and 10ft. (3m) 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).
- Insulation System—2" (51mm) 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.
- Side Connections—3/4" (19mm) NPT tappings 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 Restrictive Brass Drain Valve—Durable tamper proof design.
- Complies with the latest Ultra Low NOx requirement (10 ng/J NOx limit).









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

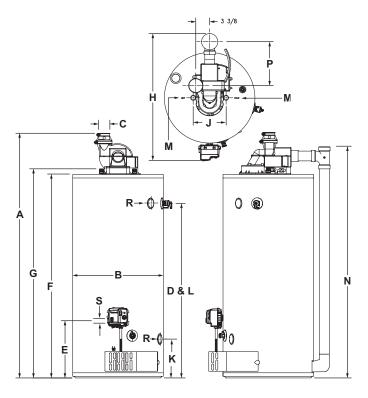
Power Direct Vent Models Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed 78% Recovery Efficiency NATURAL GAS Recovery at 100°F Rise* Nominal Nominal Recovery at 56°C Rise* Model Model D0E DOE Gal. Number Number Capacity Rated First Capacity Rated First Uniform Uniform Storage Storage Hour Hour U.S. Gal. Volume BTU/Hr. Rating Energy Factor U.S. GPH lmp. GPH Volume kW Rating Energy Liters/ Gai (Gal.) Input (Gal.) (Liters) Input (Liters) Factor Hour ULG2PDV50H503N ULG2PDV50H503N 48 50 000 48 40 46 0.68 40 182 172 14.7 311 0.68 182 Approx. Shipping Weight G Model Floor to Floor to Floor to Floor to Floor to Depth Floor to Floor to Water Floor to C/L Distance Exhaust Dia. Size T&P Gas Top of Water Water Space Heating Space Heating Conn. From Intake Heating Conn Inlet Conn. Size Size Conn. Conn. Conn. Heater Outlet NPT Intake to Exhaust Conn. Conn. in. in in. in. in. in. in in. in in. in. in. lbs ULG2PDV50H503N 201 675/16 22 3 or 4 52 1/4 137/8 5911/1 6115/16 3111/16 11 $15^{3/4}$ 52 1/4 3/4 637/8 91/4 3/4 $1/_{2}$ Approx. Shipping D Т N R Model C/L Distance Floor to Jacket Vent Floor to Floor to Floor to Floor to Depth C/L of Floor to Floor to Water Floor to Space Gas Number Top of Heater Space Heating Outlet Conn. From Intake to Exhaust Conn. Size Exhaust Dia. Size T&P Gas Water Water **Space Heating** Δir Heating Weight Intake Conn Conn. Conn. Conn. Size Conn. Conn. Inlet mm mm. kg. ULG2PDV50H503N 1708 559 76 or 102 400 19 1622 19 91

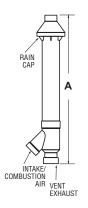
Available in Natural Gas only. For 5 year models change suffix from "3" to "5".

* Based on manufacturer's rated recovery efficiency.

110 VAC Required for Power Venting / 110 VAC, 60Hz., 3.1 Amperes.

Uniform Energy Factor and First Hour Rating is based on the latest AHRI directory listings.





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	1	55 ft.	95 ft.
of	2	50 ft.	90 ft.
90° Elbows	3	45 ft.	85 ft.

Subtract 5ft. for each additional 90° elbow.

Concentric Vent Kit Termination

3" Kit	A (in.)
P/N 239-44069-01	361/4

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 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.





For field service, contact your professional installer or local Bradford White sales representative.

Sales 800-523-2931 ■ Fax 215-641-1612

Technical Support 800-334-3393 ■ Email techserv@bradfordwhite.com

Warranty 800-531-2111 ■ Email warranty@bradfordwhite.com

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