



Envirosense® Power Direct Vent

96% Efficient Gas Water Heater

The 100,000 BTU ENERGY STAR® qualified Envirosense® Power Direct Vent gas water heater is equipped with a fully submerged, spiral-shaped condensing heat exchanger and 50 or 75 gallons of storage capacity. This design provides much greater heat transfer surface than a standard straight flue tube, resulting in 96% thermal efficiency and higher hot water output* than comparable 80% efficient water heaters.

AIQ™ ADAPTIVE GAS CONTROL

- Smart Combustion system includes gas valve with servo motor and electronic controller
- Improves combustion and light off
- Adjusts to fuel qualities or abnormalities
- Can run on natural gas or liquid propane, gas type selected via touch screen upon installation

POWER DIRECT VENT DESIGN

- Top fired burner
- Combined horizontal and vertical vent runs terminating through outside wall or roof, using ULC S636 PVC, CPVC or polypropylene pipe as follows:
 - 2" pipe allows vent runs up to 65 equivalent feet
 - 3" pipe allows vent runs up to 135 equivalent feet

INTELLIGENT CONTROL SYSTEM WITH TOUCH SCREEN DISPLAY

- Exclusive touch display control system
- Precise temperature control
- Advanced diagnostics

LEAK DETECTION MODULE

POWERED ANODE

SIDE-MOUNTED TAPS FOR RECIRCULATING SYSTEMS

- Hot and cold side taps allow for combination systems for water heating plus space heating, radiant floor heating or other applications requiring a recirculating hot water loop
- Plugs for recirculating taps are factory installed

GLASS LINED TANK

- Provides superior protection against corrosion
- Commercial-grade glass lining protects all water side tank surfaces plus inside of internal heat exchanger exposed to condensate

WARRANTY**

- 8 year limited tank warranty
- 8 year limited parts warranty

* 4.3 GPM continuous flow, based on 65 °F/18 °C inlet water temperature and 110 °F/43 °C outlet water temperature.

**In residential applications. Reduced warranty in commercial applications.



50 Gallon Model Shown





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PERFORMANCE

Model Number	Nominal Capacity USG (L)	Rated Storage Volume	First Hour Rating USG (L)	UEF	Thermal Efficiency	Recovery @ 90° Rise GPH (LPH)	BTU Input Per Hour	Vent Size inches	Dimensions in Inches		Approx. Shipping Weight (lb)
									Height to Top of Heater	Diameter	
8G50100MPDVH06	50 (189)	49	118 (447)	0.88	96%	129 (488)	100,000	2 or 3	66-3/4	22	256
8G75100HPDVH06	75 (284)	74	150 (568)	0.86	96%	129 (488)	100,000	2 or 3	65-1/4	27-3/4	388

DIMENSIONS & SHIPPING WEIGHT

Models	Units	A	B	C	D	E	F	G	H
8G50100MPDVH06	in	66-3/4	49 1/4	22	15 3/4	3	8	62	65
	cm	169.5	125.09	55.88	40.00	7.62	20.32	157.48	165.1
8G75100HPDVH06	in	65 1/4	45 5/8	27 3/4	16	3 3/4	8	59	60
	cm	165.7	115.9	70.5	40.6	9.4	20.1	145.7	149.8

Models certified for sea level to 10,100 ft. elevation.

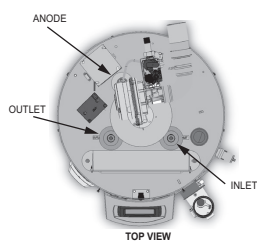
Optional Condensate Neutralizer Kit available (Part Number 100289339).

Top Inlet and Outlet: 50G - 3/4" NPT; 75G - 1" NPT

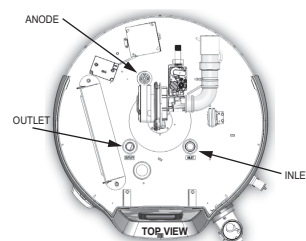
Side Inlet and Outlet: 3/4" NPT

Gas Inlet: 1/2" NPT

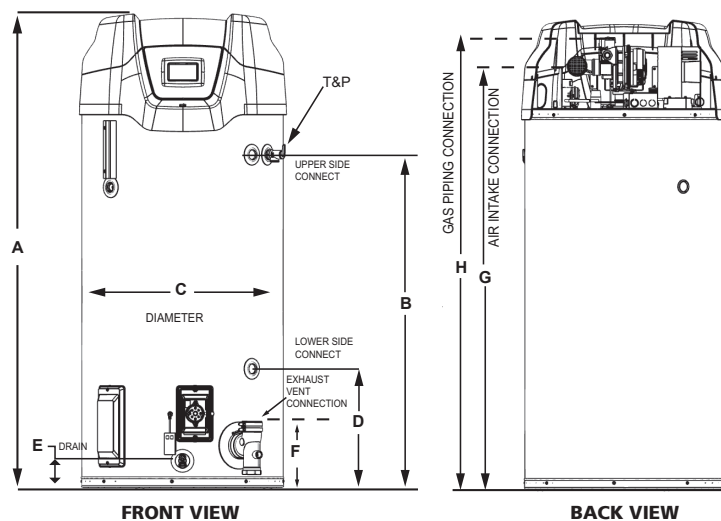
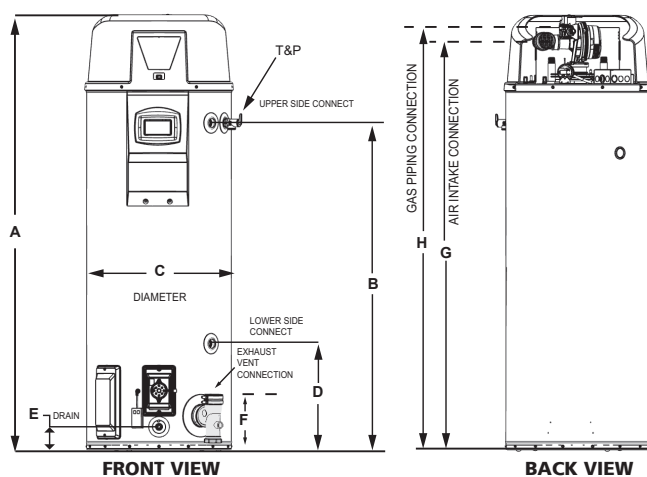
Condensate drain outlet: 1/2" NPT



*INSTALL IN ACCORDANCE WITH LOCAL CODES



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For Technical Information call 888-599-2837. A. O. Smith Enterprises Ltd. reserves the right to make product changes or improvements without prior notice.

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