



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.

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 45 equivalent feet
 - 3" pipe allows vent runs up to 128 equivalent feet

INTELLIGENT CONTROL SYSTEM WITH TOUCH SCREEN DISPLAY

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

AVAILABLE IN NATURAL GAS OR PROPANE

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 WITH TWO MAGNESIUM ANODE RODS

- 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**

- 6 year limited tank warranty
- 6 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



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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PERFORMANCE

Model	Series	Capacity		Maximum Certified Altitude	Input	Recovery Rate at 90°F Temperature Rise	Thermal Efficiency	UEF	BC Compliant
		USG	L						
NATURAL GAS									
6G50100NPDVH02*	300/301	50	189	10,100 (3,078)	100,000	128 (485)	96%	0.88	√
6G75100NPDVH02*	300/301	75	284	10,100 (3,078)	100,000	128 (485)	96%	0.86	√

DIMENSIONS & SHIPPING WEIGHT

Model	Height to Top of Tank	Height to T&P	Height to Upper Side Connection	Tank Diameter	Height to Lower Side Connection	Height to Drain Valve	Outlet to Inlet	Top Water Connections	Side Water Connections	Gas Connection	Shipping Weight
	A IN (CM)	B IN (CM)	B IN (CM)	C IN (CM)	D IN (CM)	E IN (CM)	F IN (CM)	IN NPT	IN NPT	IN NPT	LB (KG)
NATURAL GAS											
6G50100NPDVH02*	66 ¾ (170)	49 ¼ (125)	49 ¼ (125)	22 (56)	15 ¾ (40)	3 (8)	8 (20)	¾	¾	½	255 (116)
6G75100NPDVH02*	65 ¼ (166)	45 ⅝ (116)	45 ⅝ (116)	27 ¾ (71)	16 (41)	3 ¾ (10)	8 (20)	1	¾	½	382 (173)

For propane models sub N for P. Natural gas models are series 140. Propane models are series 141.

Inlet and outlet connections: 3/4" male for 6G50100NPDVH02 and 1" for 6G75100NPDVH02

Circulation loop connections: 3/4" female

Gas inlet: 1/2"

Maximum Supply Pressure: 14 inches W.C. (3.48kPa)

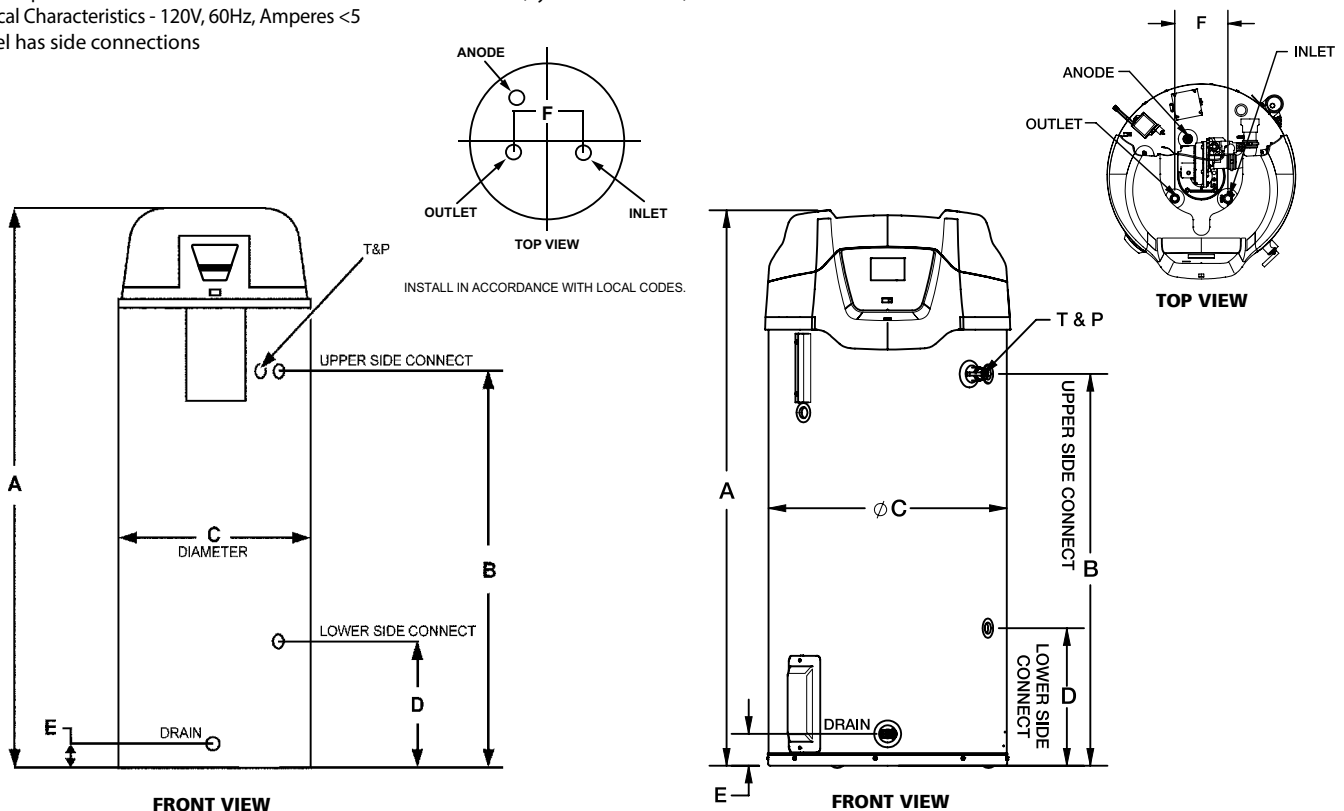
Minimum Supply Pressure for Natural Gas: 3.50 inches W.C. (.87kPa)

Minimum Supply Pressure for Propane Gas: 8.00 inches W.C. (1.99kPa)

Minimum pressure must be maintained under both load and no load (dynamic and static) conditions.

Electrical Characteristics - 120V, 60Hz, Amperes <5

*Model has side connections



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