



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

ADVANCED ELECTRONIC CONTROL

- Large LCD display
- Precise temperature control
- Advanced diagnostics

AVAILABLE IN NATURAL GAS OR PROPANE

SIDE-MOUNTED TAPS FOR RECIRCULATING SYSTEMS

- Hot and cold "side taps" allow the Power Direct Vent to be used 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

SIX-YEAR LIMITED PARTS AND TANK WARRANTY

- Consult written warranty shipped with water heater or contact GSW for complete warranty information



50 Gallon Model Shown



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



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PERFORMANCE

MODEL NUMBER	BTU INPUT PER HOUR	TANK SIZE GALLONS (LITRES)	RECOVERY - GALLONS (LITRES) PER HOUR AT 90°F/50°C RISE	SHIPPING WEIGHT LB (KG)
6G50100N-PDVH*	100,000	50 (189)	129 (488)	255 (116)
6G75100N-PDVH*	100,000	75 (284)	129 (488)	382 (173)

Manifold Pressure: 4.0 inches w.c. (.99 kPa); All models—Maximum Supply Pressure: 14 inches w.c. (3.48 kPa) Minimum Supply Pressure Natural Gas: 3.5 inches w.c. (.87 kPa). Minimum Pressure Propane: 8.0 inches w.c. (1.99 kPa). Minimum Pressure must be maintained under both load and no-load (static and dynamic) conditions.

DIMENSIONS - inches (cm)

MODEL NUMBER	A	B	C	D	E	F
6G50100N-PDVH*	66-3/4 (170)	49-1/4 (126)	22 (56)	15-3/4 (40)	3 (8)	8 (20)
6G75100N-PDVH*	64-3/4 (164)	45-5/8 (116)	27-3/4 (71)	16 (41)	3-3/4 (9)	8 (20)

* For LP replace "N" with "P"

Top inlet and outlet: 3/4" male NPT for 50 gallon model, 1" male NPT for 75 gallon model
 Side inlet and outlet: 3/4" female NPT
 Gas inlet: 1/2" NPT

MODELS	MINIMUM NUMBER OF ELBOWS REQUIRED*	MAXIMUM EQUIVALENT VENT LENGTH	
		2" PIPE (ft./m)	3" PIPE (ft./m)
6G50100N-PDVH 6G50100P-PDVH 6G75100N-PDVH 6G75100P-PDVH	1	40/12.19	120/36.57
	2	35/10.66	115/35.05
	3	30/9.14	110/33.52
	4	25/7.62	105/32
	5	20/6.09	100/30.48
	6	15/4.51	95/28.95

* Refer to installation manual for further details.
 For high altitude installations, consult the installation instructions.

