



# 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



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.

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



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### PERFORMANCE

| Model              | Series  | Capacity |     | Maximum Certified Altitude | Input   | Recovery Rate at 90°F Temperature Rise | EF** | Thermal Efficiency | BC Compliant |
|--------------------|---------|----------|-----|----------------------------|---------|--|------|--------------------|--------------|
|                    |         | USG      | L   |                            |         |  |      |                    |              |
| <b>NATURAL GAS</b> |         |          |     |                            |         |  |      |                    |              |
| 6G50100NPDVH02*    | 300/301 | 50       | 189 | 10,100 (3,078)             | 100,000 | 128 (485)                              | 0.77 | 96%                | ✓            |
| 6G75100NPDVH02*    | 300/301 | 75       | 284 | 10,100 (3,078)             | 100,000 | 128 (485)                              | 0.77 | 96%                | ✓            |

### 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)         |
| <b>NATURAL GAS</b> |                       |               |                                 |               |                                 |                       |                 |                       |                        |                |                 |
| 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

\*\*Calculated using HOT2000 v11 software package

