



Power Direct Vent Water Heaters

The Power Direct Vent (PDV) features a sealed combustion chamber, low-profile design and state-of-the-art gas control for highly accurate and reliable temperature control. Perfect for both residential new home construction and replacement water heater applications, the Power Direct Vent will provide the ultimate solution for your hot water needs.

SAVE MONEY ON ENERGY COSTS

- Exceed energy efficiency standards
- No heated indoor air used for combustion
- Factory-installed heat trap nipples reduce the amount of heat lost through piping

DESIGNED FOR PERFORMANCE

- Exclusive TankSaver® design to prolong tank life
- Available for natural gas or propane
- Suitable for elevations up to 10,100 ft. (3,078 m)
- Maximum working pressure: 150 psi

KEEPING YOU SAFE

- Sealed combustion chamber design prevents accidental ignition of flammable vapours

EASY TO INSTALL AND MAINTAIN

- Low-profile design is ideal for replacement applications
- Compact design makes it great for tight space installations
- Convenient 3/4" side taps for combination applications on 50 USG high-input and 75 USG models
- Conveniently located T&P, drain valve, junction box and anode

FLEXIBLE VENTING CONFIGURATIONS

- Can be vented with 2", 3" or 4" ULC S636 PVC, CPVC or polypropylene pipe up to 180 equivalent feet (see installation manual for full details)
- Can be installed using an optional concentric vent kit (see reverse or installation manual for full details)

LIMITED TANK AND PARTS WARRANTY

- Consult written warranty on the back of this sheet, with documentation included with water heater or contact GSW for complete warranty information





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PERFORMANCE

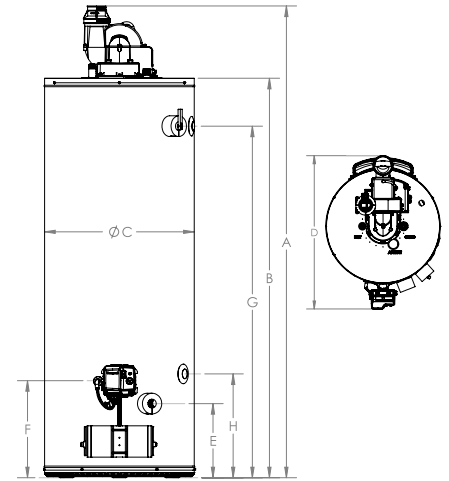
| Tank Warranty | Model | Series | Capacity | Input | Recovery Rate at 90°F Temperature Rise | First Hour Rating | UEF | BC/ON Compliant |
|---------------|-------------------|---------|----------|--------|--|-------------------|------|-----------------|
| Years*** | | | USG (L) | BTU/h | GPH (LPH) | GPH (LPH) | | |
| NATURAL GAS | | | | | | | | |
| 6 | G640S40N-PDV-ES2 | 300/301 | 40 (151) | 40,000 | 45 (170) | 71 (269) | 0.68 | √ |
| 6 | G650T45N-PDV-ES2 | 300/301 | 50 (189) | 45,000 | 50 (189) | 93 (352) | 0.72 | √ |
| 6 | G650T62N-PDV-ES2* | 300/301 | 50 (189) | 62,000 | 73 (276) | 100 (379) | 0.73 | √ |
| 6 | G675T72N-PDV-ES2* | 300/301 | 75 (284) | 72,000 | 82 (310) | 154 (583) | 0.68 | √ |

For propane models sub N for P. Natural gas models are series 300. Propane models are series 301.

All models rated for installation at altitudes up to 10,100 ft (3,078 m).

***In residential applications. Reduced warranty in commercial applications. Parts warranted for 1 year.

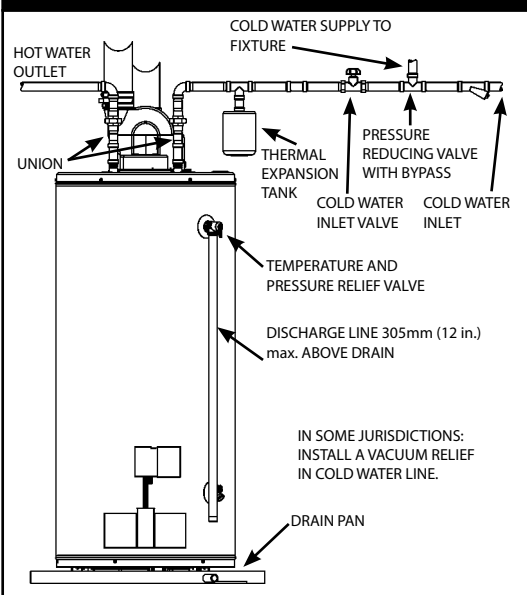
*Side connections standard.



DIMENSIONS & SHIPPING WEIGHT

| Model | Installation Height | Height to Top of Tank | Tank Diameter | Overall Depth | Height to Drain Valve | Height to Gas Inlet | Height to T&P | Height to Upper Side Connection | Height to Lower Side Connection | Vent Diameter | Shipping Weight |
|------------------|---------------------|-----------------------|---------------|---------------|-----------------------|---------------------|---------------|---------------------------------|---------------------------------|---------------|-----------------|
| | A IN (CM) | B IN (CM) | C IN (CM) | D IN (CM) | E IN (CM) | F IN (CM) | G IN (CM) | G IN (CM) | H IN (CM) | IN | LB (KG) |
| NATURAL GAS | | | | | | | | | | | |
| G640S40N-PDV-ES2 | 58 ¼ (148) | 49 ½ (126) | 22 (56) | 29 ⅞ (76) | 11 (28) | 13 ¼ (34) | 42 ½ (108) | N/A | N/A | 2, 3 or 4 | 174 (79) |
| G650T45N-PDV-ES2 | 67 ½ (171) | 58 ⅞ (150) | 22 (56) | 29 ⅞ (76) | 11 (28) | 13 ¼ (34) | 51 ¾ (131) | N/A | N/A | 2, 3 or 4 | 192 (87) |
| G650T62N-PDV-ES2 | 68 ⅞ (175) | 60 ¼ (153) | 22 (56) | 29 ⅞ (76) | 11 (28) | 13 ¼ (34) | 52 ¾ (134) | 52 ¾ (134) | 15 ¼ (39) | 3 or 4 | 200 (91) |
| G675T72N-PDV-ES2 | 70 ⅞ (179) | 60 ½ (154) | 26 (66) | 33 ⅞ (86) | 11 (28) | 13 ¼ (34) | 53 (135) | 53 (135) | 15 ¼ (39) | 3 or 4 | 277 (126) |

PREFERRED INSTALLATION



VENT PIPE LENGTHS

| Model | Vent Pipe Diameter IN | Minimum Number of Elbows Required* | Minimum Vent Length with One Elbow FT (M) | | Maximum Equivalent Vent Length FT (M) | |
|------------------|-----------------------|------------------------------------|---|---------|---------------------------------------|----------|
| | | | Concentric | 2 Pipe | Concentric | 2 Pipe |
| G640S40N-PDV-ES2 | 2 | 1 | 7 (2) | 7 (2) | 50 (15) | 50 (15) |
| | 3 | 1 | 7 (2) | 7 (2) | 100 (30) | 125 (38) |
| | 4 | 1 | N/A | 50 (15) | N/A | 180 (55) |
| G650T45N-PDV-ES2 | 2 | 1 | 7 (2) | 7 (2) | 50 (15) | 50 (15) |
| | 3 | 1 | 7 (2) | 7 (2) | 100 (30) | 125 (38) |
| | 4 | 1 | N/A | 50 (15) | N/A | 180 (55) |
| G650T62N-PDV-ES2 | 3 | 1 | 7 (2) | 7 (2) | 45 (14)** | 50 (15) |
| | 4 | 1 | N/A | 50 (15) | N/A | 125 (38) |
| G675T72N-PDV-ES2 | 3 | 1 | 7 (2) | 7 (2) | 30 (9) | 50 (15) |
| | 4 | 1 | N/A | 50 (15) | N/A | 125 (38) |

* Refer to installation manual for further details.

** 30 (9) for G650T62P-PDV-ES2

OPTIONAL KITS

| Description | Part Number |
|------------------------|-------------|
| 2" Concentric vent kit | 100112869 |
| 3" Concentric vent kit | 100111100 |
| High ambient kit | 100308923 |