



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

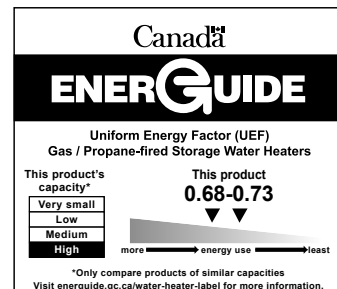
- Low-profile design is ideal for replacement applications
- Compact design makes it great for tight space installations
- Convenient 3/4" side taps for combination applications on 50 USG high-input and 75 USG models
- Conveniently located T&P, drain valve, junction box and anode

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

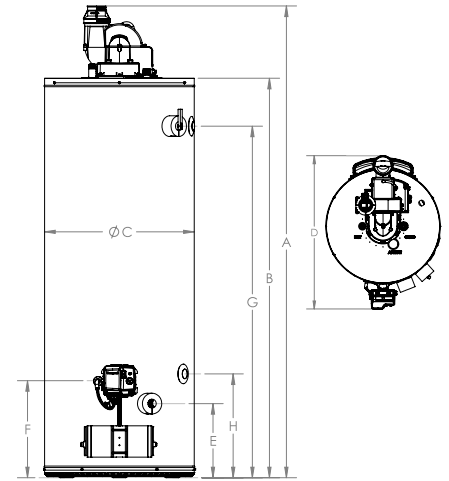
Tank Warranty	Model	Series	Capacity	Input	Recovery Rate at 90°F Temperature Rise	First Hour Rating	UEF	BC/ON Compliant
Years***			USG (L)	BTU/h	GPH (LPH)	USG (L)		
NATURAL GAS								
6	G640S40N-PDV-ES2	300/301	40 (151)	40,000	45 (170)	71 (269)	0.68	√
6	G650T45N-PDV-ES2	300/301	50 (189)	45,000	50 (189)	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.

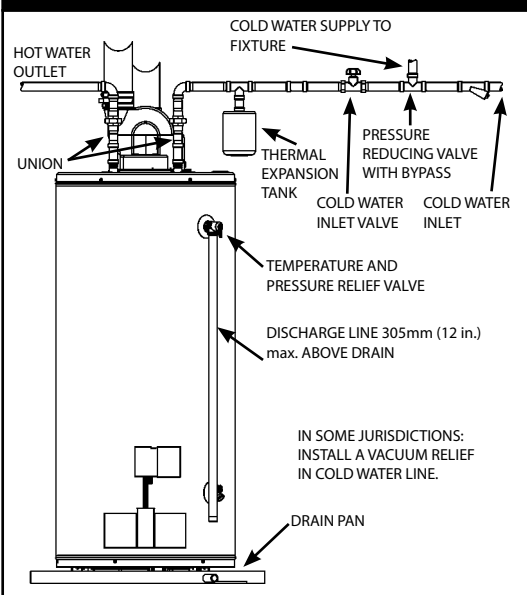
*Side connections standard.



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)
	3	1	7 (2)	7 (2)	30 (9)	50 (15)
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