



Residential Gas Direct Vent Water Heaters

ProMax[®] DIRECT VENT

FEATURES

DIRECT VENT DESIGN

One-pipe, dual-channel draws all make-up air from outside the home, eliminating problems caused by insufficient indoor ventilation. All units are FVIR compliant.

Horizontal air intake and venting on all models up to 80 inches from outside the wall with no electrical power needed.

INTELLIGENT CONTROL LOGIC

The internal microprocessor provides enhanced operating parameters and tighter differentials for precise sensing and faster heating response to optimize performance.

DYNACLEAN[™] DIFFUSER DIP TUBE

Helps reduce lime and sediment buildup, maximizes hot water output. Made from long-lasting PEX cross-linked polymer.

SELF-POWERED ELECTRONIC GAS VALVE

Uses a thermopile to generate the power needed to operate the electronic gas control without requiring an external power source.

DIAGNOSTICS

The electronic gas control incorporates an LED status indicator that monitors system operation and service diagnostics.

GREEN CHOICE[®] GAS BURNER

Patented "Eco-Friendly" design reduces NOx emissions up to 33% and complies with low NOx emissions of less than 40 ng/J.

COREGARD[™] ANODE ROD

Our anode rods have a stainless steel core that extends the life of the anode rod allowing superior tank protection far longer than standard anode rods.

PUSH BUTTON PIEZO IGNITOR

Makes lighting the pilot fast and easy with one hand push button spark ignition.

HEAT TRAP NIPPLES

Factory-installed.

DURABLE TAMPER-RESISTANT BRASS DRAIN VALVE

BLUE DIAMOND[®] GLASS COATING

An A. O. Smith exclusive provides superior corrosion resistance compared to the industry-standard glass lining.

CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE

6-YEAR LIMITED TANK & PARTS WARRANTY

For complete information, consult written warranty.

CODE COMPLIANCE

UBC, CEC, SBCC, HUD and BOCA National Codes. Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1. and meets the Federal Energy Efficiency Standards effective January 20, 2004, according to the National Appliance Energy Conservation Act (NAECA) of 1992.

DESIGN-CERTIFIED BY CSA INTERNATIONAL

According to ANSI Z 21.10.1- CSA 4.1 Standards governing storage-type water heaters.



**Image Shown:
GDV-40, GDV-50 & GDVT-50
Series 290/291**

*GDV-75 will have leg base assembly





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| MODEL NUMBER | SERIES | GALLON CAPACITY | FIRST HOUR RATING (GALLONS) | INPUT BTU PER HOUR | GPH RECOVERY 90°F RISE | ENERGY FACTOR (EF) | DIMENSIONS IN INCHES | | | | | | | | VENT OUTLET* | APPROX. SHIPPING WEIGHT (LBS) |
|--------------|--------|-----------------|-----------------------------|--------------------|------------------------|--------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------------|-------------------------------|
| | | | | | | | A | B | C | D | E | F | G | H | | |
| GDV-40 | 290 | 40 | 72 | 38,000 | 41 | 0.60 | 64 | 49-3/4 | 22 | 13-1/4 | 15-1/4 | 42-1/2 | 29 | 15-1/4 | Co-Axial | 178 |
| GDV-50 | 290 | 50 | 91 | 40,000 | 43 | 0.59 | 73 | 59 | 22 | 13-1/4 | 15-1/4 | 51-3/4 | 29 | 15-1/4 | Co-Axial | 200 |
| GDVT-50 | 290 | 50 | 92 | 47,000 | 51 | 0.58 | 74 | 60 | 22 | 13-1/4 | 15-1/4 | 52-3/4 | 29 | 15-1/4 | Co-Axial | 215 |
| GDV-75 | 200 | 75 | 131 | 55,000 | 60 | 0.57 | 76 | 63-1/4 | 26-1/4 | 15-1/2 | 17-1/4 | 54 | 33-3/4 | 17-1/4 | Co-Axial | 310 |

Recovery capacities based on actual performance tests.

* Dual-channel system has 3" vent pipe inside 6" air intake pipe, for the 40 & 50-gallon models.

The 75 gallon model uses a 3" x 7" co-axial pipe.

All Models Have 2" Foam Cavity.

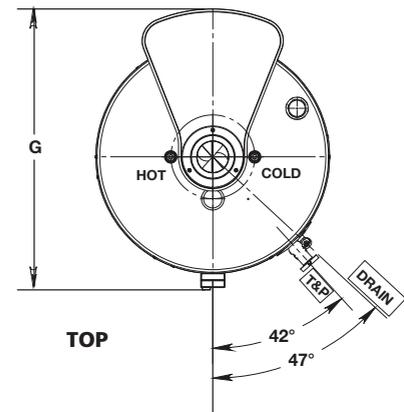
Water connection 3/4" male all models.

75 gallon water connections are 12" on center and the 40 & 50 gallon models are 8" on center.

All models are available in propane (LP) gas. Propane units are Series 291 or 201 for the 75 gallon model.

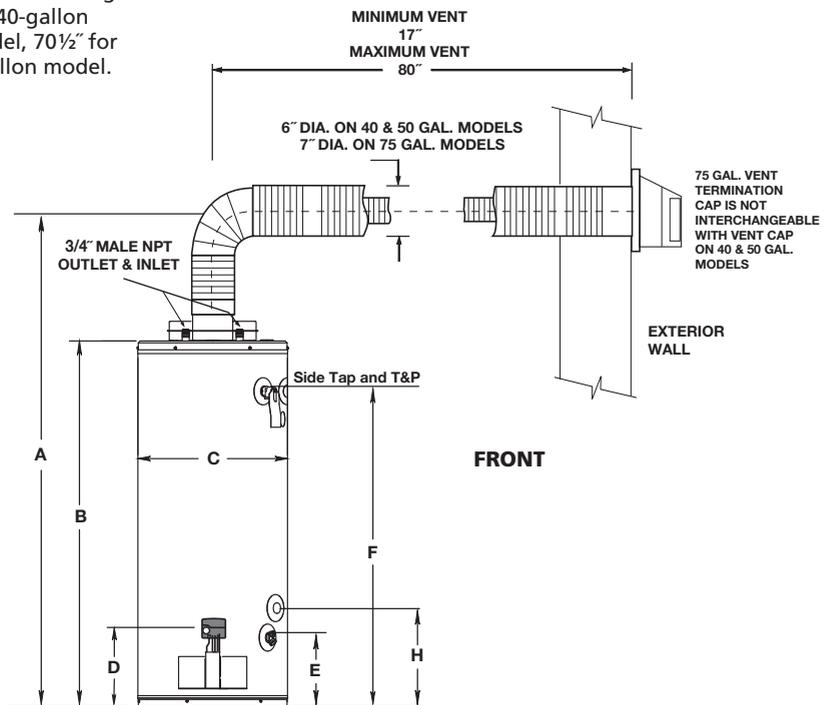
All models are certified from sea level to 7,700 ft. elevations.

Side connections optional. Add "L" to the model number, e.g. GDV-40L (T&P standard on all models).



Important! Vent Installation and Termination Requirements

- Maximum horizontal vent distance is 80" to outside of exterior wall.
- Maximum vertical vent distance is 72" above heater before 90 degree turn through exterior wall.
- Minimum horizontal vent distance is 17" to outside of exterior wall.
- Vent pipes may be trimmed (cut) for short vent installations.
- The recommended installation height for the vent termination is dimension "A" in the above table. The minimum allowable height (center line of termination opening) is 60 3/4" for the 40-gallon model, 69 1/2" for the 50-gallon 40,000 Btu input model, 70 1/2" for the 50-gallon 47,000 Btu input model and the 75 gallon model.
- Vent Restrictor Plate: The vent restrictor plate is required for short horizontal vent runs, less than 30" horizontal and vent runs when the terminations height is greater than 48" above the heater. The only time the restrictor is not required is for horizontal runs greater than 30" in length with the termination less (lower) than 48" above the heater. See installation instructions for complete details.
- Offset Vent Arrangement: The vent run may have one (1) 90 degree horizontal turn prior to terminating through the exterior wall. See installation instructions for complete details.
- Vent termination clearance hole through the exterior wall should be approximately 7" diameter.
- Snow accumulation and drifting should be considered when locating the termination.
- An optional wire grill vent cap protector is available through the parts department. Part number 9006627005.
- See the installation manual for complete installation and venting requirements.



For Technical Information call 1-800-527-1953. A. O. Smith Corporation reserves the right to make product changes or improvements without prior notice.