

2019



# COMMERCIAL-GRADE RESIDENTIAL GAS WATER HEATERS

## VERTEX™ VERSATILE POWER DIRECT VENT

Up to 0.88 Uniform Energy Factor (96% Thermal Efficiency)

Today's homes demand more hot water than ever before, and the high efficiency Vertex™ power direct vent gas water heaters offer unprecedented levels of performance to meet the need. The fully condensing Vertex design is so advanced, it can deliver "continuous hot water for shower after shower" at a constant flow of over 4 gallons per minute.\*

### ENERGY STAR® QUALIFIED

#### ADVANCED ELECTRONIC CONTROL

- Exclusive A. O. Smith designed touch display control system
- Precise temperature control
- Built-in diagnostics and operational information

#### CONDENSING DESIGN

- High efficiency operation with up to 0.88 Uniform Energy Factor (96% thermal efficiency) to save money on operating costs
- Equipped with condensate drain tee

#### HELICAL INTERNAL HEAT EXCHANGER

- Spiral heat exchanger keeps hot combustion gases in the tank longer to lengthen the heat transfer cycle
- Positioned in the center of the tank for more even heat distribution
- Spiral design reduces lime scale formation on the heat exchanger to maintain high efficiency operation over time

#### POWER DIRECT VENT DESIGN

- Combined vertical and horizontal runs terminating through an outside wall. Vents using PVC, CPVC, or polypropylene pipe. Canadian installations require ULC S636 approved PVC, CPVC or polypropylene pipe for venting.
- 2" pipe, vents up to 45 equivalent feet
- 3" pipe, vents up to 125 equivalent feet

#### SIDE-MOUNTED HOT AND COLD RECIRCULATING TAPS

- Allows Vertex to be installed as part of combination space heating/water heating applications

#### AVAILABLE IN NATURAL GAS OR PROPANE

### TOP FIRED ULTRA-LOW NOX GAS BURNER

- Enhanced Ultra-low NOx burner complies with SCAQMD Rule 1146.2 and other Air Quality Management Districts with similar requirements for NOx emissions of less than 14 ng/j

### BLUE DIAMOND® GLASS COATING

- Provides superior corrosion resistance compared to industry standard glass lining.

### HEAVY-DUTY ANODIC PROTECTION

- Provides even more protection against corrosion

### CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE

### MAXIMUM HYDROSTATIC WORKING PRESSURE: 150 PSI

### CODE COMPLIANCE

- Meets IBC and ICC National Codes.
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1.

### DESIGN-CERTIFIED BY UNDERWRITERS LABORATORIES

- Certified at 300 psi test pressure and 150 psi working pressure. Listed according to ANSI Z21.10.3 - CSA 4.3 standards governing storage tank-type water heaters.

### 6-YEAR LIMITED TANK AND PARTS WARRANTY

- For complete information, consult written warranty or go to [hotwater.com](http://hotwater.com)

\*Continuous hot water based on 4.31 GPM continuous flow with a 65°F inlet water temperature, 110°F outlet temperature, and a unit installed per the manufacturer's instructions.

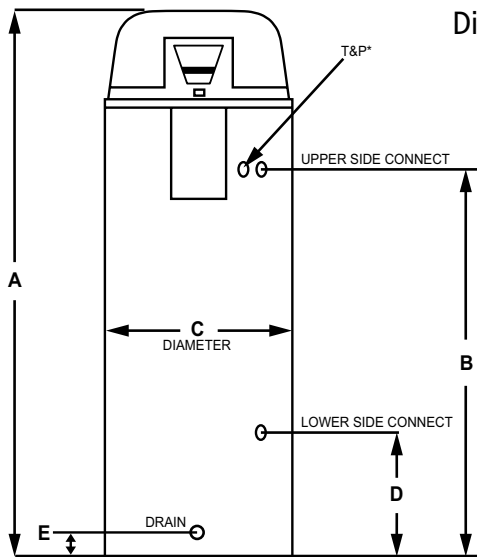


MODEL SHOWN GDHE-75  
SERIES 300/301

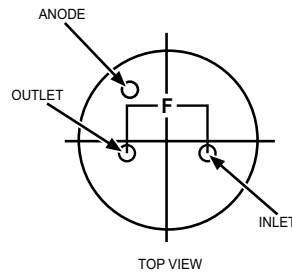


Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	UEF	Thermal Efficiency	Recovery @ 90° Rise Gallon Per Hour	BTU Input Per Hour	Vent Size	Dimensions in Inches		Approx. Shipping Weight (lbs)
									Height to Top of Heater	Diameter	
GDHE-50	50	49	100	0.88	96%	129	100,000	2 or 3	66-3/4	22	255
GDHE-75	75	74	130	0.86	96%	129	100,000	2 or 3	64-3/4	27-3/4	382

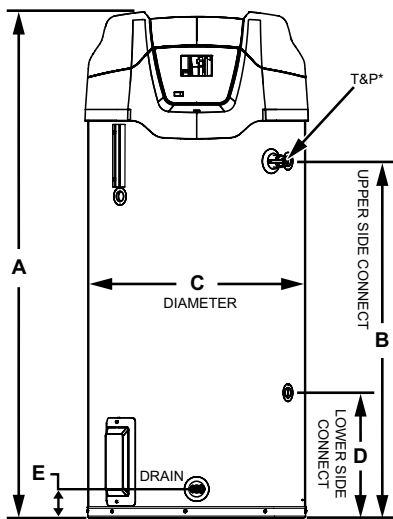
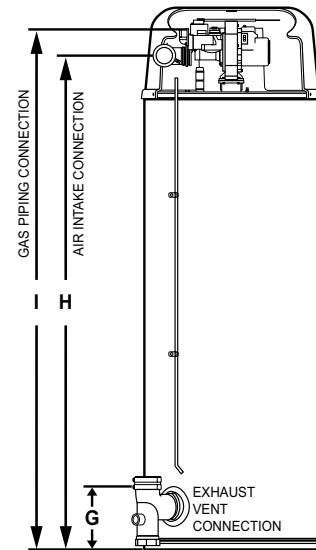
Available in Propane (LP) gas. Specify when ordering Propane (LP) gas.  
Models certified for sea level to 10,100 ft. elevation.  
Optional Condensate Neutralizer Kit available (Part Number 100112380).



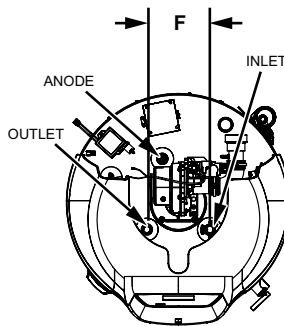
Dimensions for GDHE-50



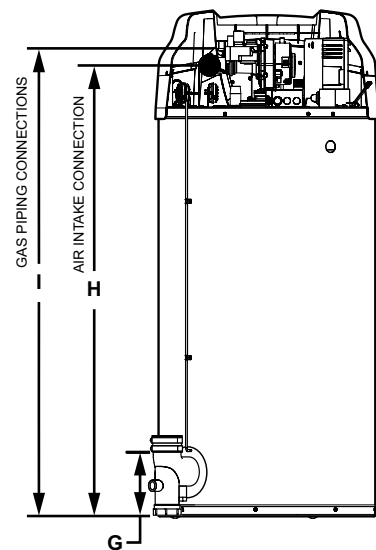
\*INSTALL IN ACCORDANCE WITH LOCAL CODES.



Dimensions for GDHE-75



\*INSTALL IN ACCORDANCE WITH LOCAL CODES.



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