



# Commercial Gas Water Heaters

## FORCE™ 90+ VERSATILE POWER DIRECT VENT 96% THERMAL EFFICIENT

The Force™ 90+ is a light-duty, power direct vent, fully condensing commercial gas water heater with an internal helical heat exchanger. This helical heat exchanger helps Force™ 90+ achieve 96% thermal efficiency and deliver outstanding hot water output.

### AiQ™ ADAPTIVE GAS CONTROL

- Smart Combustion system includes gas valve with servo motor and electronic controller
- Improves combustion and light off
- Adjusts to fuel qualities or abnormalities
- Can run on natural gas or liquid propane, gas type selected via touch screen upon installation

### CONDENSING DESIGN

- High efficiency operation at 96% thermal efficiency to save money on operating costs

### LEAK DETECTION MODULE

### HELICAL INTERNAL HEAT EXCHANGER

- Spiral heat exchanger keeps hot combustion gases in the tank longer to lengthen the heat transfer cycle

### 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 65 equivalent feet
- 3" pipe, vents up to 135 equivalent feet

### SIDE-MOUNTED HOT AND COLD RECIRCULATING TAPS

- Allows Force™ 90+ to be installed as part of combination space heating/water heating applications

### 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

### POWERED ANODE

### BLUE DIAMOND® GLASS COATING

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

### 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.

### 3-YEAR LIMITED TANK AND 1 YEAR LIMITED PARTS WARRANTY

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



**MODEL SHOWN SHE75 100  
SERIES 400**

**ADAPTIVE GAS CONTROL**



# SOLID. STATE.

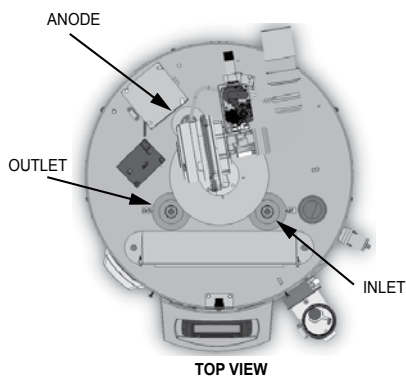
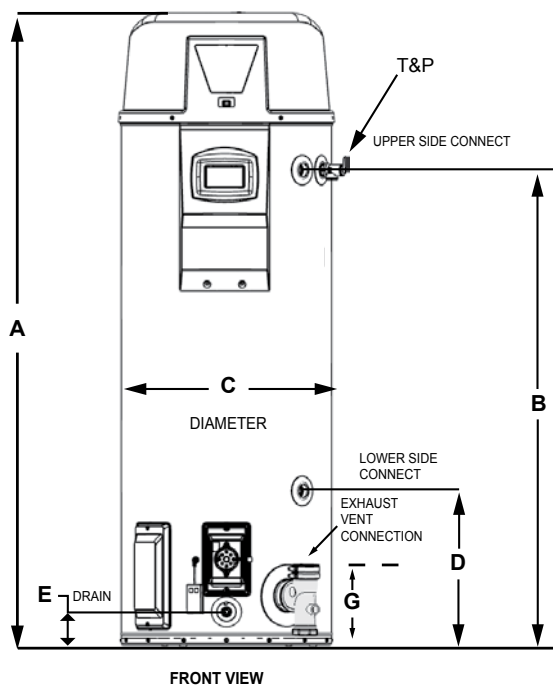


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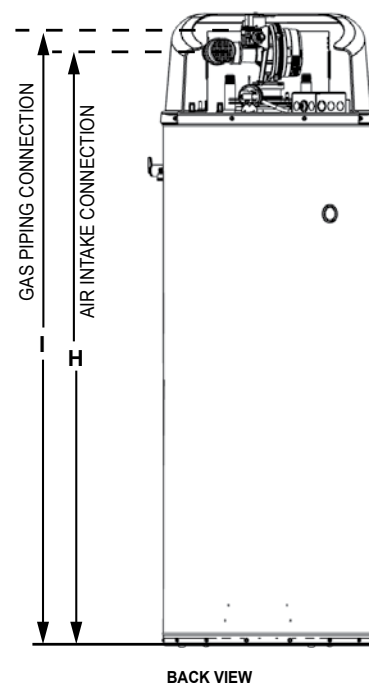
Model Number	Nominal Capacity	Rated Storage Volume	First Hour Rating (Gallons)	Thermal Efficiency	Recovery @ 90° Rise Gallon Per Hour	BTU Input Per Hour	Vent Size	Dimensions in Inches		Approx. Shipping Weight (lbs)
								Height to Top of Heater	Diameter	
<b>SHE 50 100ME</b>	50	49	118	96%	129	100,000	2 or 3	66-3/4	22	256
<b>SHE75 100ME</b>	75	74	150	96%	129	100,000	2 or 3	65-1/4	27-3/4	388

Models certified for sea level to 10,100 ft. elevation.

Optional Condensate Neutralizer Kit available (Part Number 100289339).



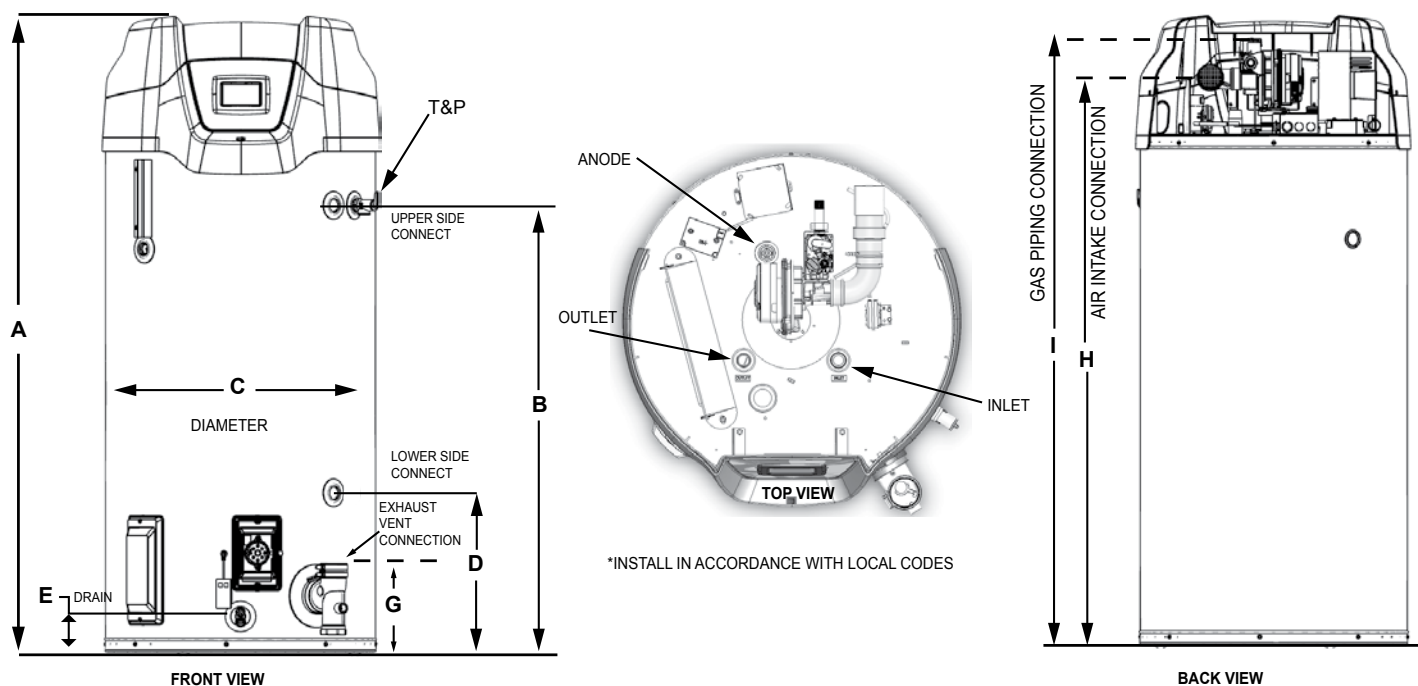
\*INSTALL IN ACCORDANCE WITH LOCAL CODES



### ROUGH-IN-DIMENSIONS

Models	Units	A	B	C	D	E	F	G	H	I
50G	Inches	66-3/4	49 1/4	22	15 3/4	3	8	8	62	65
	CM	169.5	125.09	55.88	40.00	7.62	20.32	20.32	157.48	165.1
75G	Inches	65 1/4	45 5/8	27 3/4	16	3 3/4	8	8	59	60
	CM	165.7	115.9	70.5	40.6	9.4	20.3	20.1	145.7	149.8

Top Inlet and Outlet: 50G - 3/4" NPT; 75G - 1" NPT  
Side Inlet and Outlet: 3/4" NPT  
Gas Inlet: 1/2" NPT  
Condensate drain outlet: 1/2" NPT



### SPECIFICATION

(Natural or Propane) gas water heater(s) shall be State Force™ 90+ model with 96% thermal efficiency with storage capacity \_\_\_\_\_; an input rating of 100,000 BTUs per hour, a recovery rating of 129 gallons per hour at 90°F rise and a maximum hydrostatic working pressure of 150 psi. Water heater(s) shall be of power direct vent design, using 2" or 3" PVC, CPVC, or polypropylene pipe for horizontal and/or vertical vent runs. Water heater(s) shall have: 1: Steel tank construction with seamless glass lining and a spiral-shaped heat exchanger placed entirely inside the tank, which shall be glasslined on the flue gas side to protect against acidic condensate. 2: Advanced electronic control with LCD touchscreen display and integral diagnostics. 3: A 3-year limited warranty against tank leaks. Water heater(s) shall meet the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1 and be design-certified by CSA International according to ANSI Z21.10.3-CSA 4.3 standards governing storage tank water heaters.