FORCE[™]90+

Power Direct Vent Commercial Gas Water Heaters

The 100,000 BTU Force[™]90+ light-duty commercial gas water heater is equipped with a fully submerged, spiral-shaped condensing heat exchanger and 50 gallons of storage capacity. This design provides much greater heat transfer surface than a standard straight flue tube, resulting in 96% thermal efficiency and higher hot water output than comparable 80% efficient water heaters. With a 22["] diameter, the Force[™] 90+ can be installed in less space than a 75-gallon unit yet delivers greater recovery and lower operating costs. The Force 90 is ENERGY STAR[®] Qualified.



Series 124/125

Power Direct Vent Design for Installation Versatility

- Modular blower, with 120V, 60Hz electrical system (5 amps or less)
- Can be vented vertically thru-the-roof or horizontally thru-the wall. Vents using PVC, CPVC or ABS pipe.
 - 2" pipe allows vent runs up to 45 equivalent feet 3" pipe allows vent runs up to 128 equivalent feet
- Optional concentric vent and sidewall termination kits available

Available in Natural Gas or Propane

Side-Mounted Taps for Recirculating Systems

- Hot and cold "side taps" allow the Force[™] 90+ to be used for "combination" systems for water heating plus space heating, radiant floor heating or other applications requiring a recirculating hot water loop
- Plugs for recirculating taps are factory installed

Advanced Electronic Control

- Large LCD display
- Precise temperature control
- Advanced diagnostics
- iCOMM[™] Compatible and can be monitored from remote locations. Call 1.888.WATERO2 for more information.

Glasslined Tank with Two Magnesium Anode Rods

- Provides superior protection against corrosion
- Commercial-grade glass lining protects all "water side" tank surfaces plus inside of internal heat exchanger exposed to condensate

Top-Fired Low NOx Burner

• Reduces NOx emissions and complies with SCAQMD Rule 1146.2, and other Air Quality Management Districts with similar requirements for low NOx emissions

CSA Certified and ASME Rated T&P Relief Valve

Maximum Hydrostatic Working Pressure: 150 psi

Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1



Three-Year Limited Tank Warranty

 Consult written warranty shipped with water heater or contact State Water Heater for complete warranty information

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FORCE[™]90+ 96% Efficient Power Direct Vent Commercial Gas Water Heaters

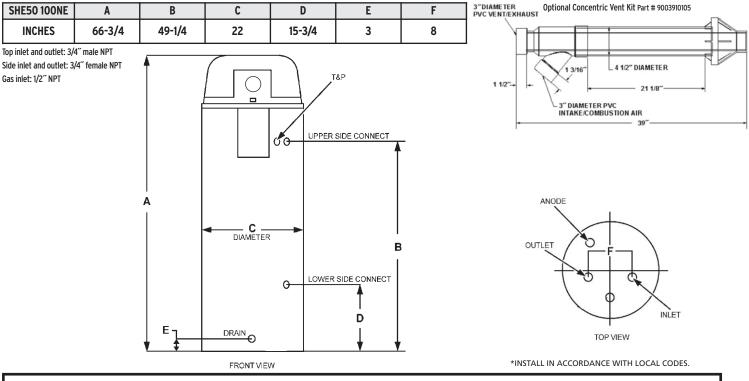
SPECIFICATIONS

MODEL NUMBER	BTU INPUT PER Hour	TANK SIZE GALLONS	RECOVERY-GALLONS PER HOUR AT DEGREE RISE			SHIPPING WEIGHT
			40°F	100°F	140°F	LBS.
SHE50 100NE	100,000	50	291	116	83	255

All models-Maximum Supply Pressure: 14 inches w.c. (3.48 kPa) Minimum Supply Pressure Natural Gas: 3.5 inches w.c.

(.87 kPa). Minimum Pressure Propane: 8.0 inches w.c. (1.99 kPa). Minimum Pressure must be maintained under both load and no-load (static and dynamic) conditions.

DIMENSIONS



SUGGESTED SPECIFICATION

(Natural or Propane) gas water heater(s) shall be State Force[™] 90+ model SHE50 100NE, with 96% thermal efficiency, a storage capacity of 50 gallons, an input rating of 100,000 BTU per hour, a recovery rating of 116 gallons per hour at 100°F rise and a maximum hydrostatic working pressure of 150 psi. Water heater(s) shall be ofpower direct vent design, using 2 or 3" PVC, CPVC or ABS pipe for horizontal and/or vertical vent runs. Water heater(s) shall have: 1: Glasslined steel tank construction 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 large LCD display and advanced diagnostics. Water heaters shall incorporae the iCOMM" system for remote monitoring, leak detection and fault alert. 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/LESNA 90.1.

For complete information on limited warranties, consult written warranty or contact the State Customer Care Center at 1-800-365-0024.

State Industries, Inc. reserves the right to make product changes or improvements without prior notice.

For more information on State Water Heaters, contact: State Water Heaters 500 Tennessee Waltz Parkway Ashland City, TN 37015 800-365-0024 Toll-free USA www.statewaterheaters.com

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Revised June 2013