

# STATE SUPER HIGH EFFICIENCY GAS WATER HEATERS

96% Thermal  
Efficiency

RESIDENTIAL PREMIER® POWER VENT DV • COMMERCIAL FORCE 90+™

- 96% Thermal Efficiency
- 100,000 BTU Input
- 164-Gallon First Hour Delivery
- 129 GPH Recovery
- 22" Diameter Footprint
- Easy To Install



**SOLID.STATE.**



## PREMIER® POWER VENT DV RESIDENTIAL GAS WATER HEATER

### The ideal choice for high-demand homes

With the Premier® Power Vent DV, you have a water heater with 96% thermal efficiency for high-demand residential applications. Homeowners can say goodbye to cold showers because this advanced alternative to larger water heaters or tankless units can go “nonstop.” Continuous\* flow ensures a supply that’s always ready for one more hot shower.

**Designed for today’s lifestyles,** the Premier® Power Vent DV is well-suited for larger homes with multiple bathrooms and whirlpool tubs and for families with teenagers, who typically take longer and more frequent showers.

**Unlike standard 50-gallon units,** this water heater has a substantially higher first-hour delivery and recovery, providing homeowners with a nonstop flow of hot water.\* And with 96% thermal efficiency, it heats more water for significantly less, which equates to welcome energy savings.

**Compared to on-demand water heaters,** the Premier® Power Vent DV manages changes in demand more effectively and delivers a nonstop\* supply of hot water. And unlike tankless units, there won’t be any surprises during installation because size and placement of gas and water lines are identical to a conventional tank-type gas water heater.



## FORCE 90+™ COMMERCIAL GAS WATER HEATER

### A force for high efficiency at 96%

State offers a truly comprehensive line of commercial gas and electric water heaters, plus commercial storage tanks up to 10,000 gallons. And when a light commercial application calls for the very best, look to State’s line of high efficiency Force 90+™ units to deliver superior performance from the inside out!

**With a design for light commercial applications,** the Force 90+™ puts 100,000 BTU input into the tank to deliver more hot water than any “conventional” 50-gallon unit. With its compact 22” footprint, Force 90+™ is the ideal choice to give smaller businesses and institutions more hot water in the same space or less than conventional units, with significant savings on their energy bills.

**Get maximum service life** with a quality commercial grade glass lining, protected by two anode rods, to meet the demands of commercial applications. The interior of the heat exchanger is also glasslined to protect against flue gas condensate.

**Helical coil heat exchanger provides maximum heating power** because unlike conventional light-commercial heaters with a “flue tube” that vents hot combustion gases straight up and out, the Force 90+™ achieves 96% thermal efficiency by circulating them around and around. This design provides much more heat transfer surface, keeps heat in the heat exchanger longer, and allows the Force 90+™ to handle 100,000 BTU input for extraordinary water heating power.



\* 4.3 GPM continuous flow, based on 65°F inlet water temperature and 110°F outlet water temperature.



## Durability and performance for a constant\* supply of hot water!



**1 Premium-Grade Glass Lining** provides superior protection against leaks.

**2 Dual Anode Rods** provide the highest quality defense against leaks.

**3 Low-NOx Burner** for "eco-friendly" operation complies with Southern California and Texas Low-NOx standards.

**4 Hot and Cold Recirculating Connections** conveniently located on side of unit for combination hot water/space heating or hot water/radiant floor heating applications.

**5 PEXAN™ Dip Tube for Long Life** made from a rugged cross-linked polymer for superior resistance to thermal oxidation, with "diffuser" design to help reduce sediment buildup.

**6 Fully Submerged Coil Heat Exchanger** with helical configuration maximizes heat transfer area for 96% thermal efficiency and superior hot water output.

**7 On/Off Control** helps simplify service and allows total shutdown during vacation by cutting all power to the water heater with the flick of a switch.

• **Power Vent Flexibility** uses 2", 3" or 4" PVC pipe and provides outstanding flexibility in location of water heater through use of long combined horizontal and vertical vent runs.

• **Easy Removal of Flue Gas Condensate** created by 96% efficiency, using condensate elbow and outlet supplied with water heater.



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• **Premium Electronic Control** provides precise temperature control due to its state-of-the-art design. Mounted at eye level, the easy-to-read LCD panel gives both current operating modes as well as performance history maintenance and quick trouble shooting.

- iCOMM™ Compatible and can be monitored from remote locations. Call 1.888.WATER02 for more information.



\* 4.3 GPM continuous flow, based on 65°F inlet water temperature and 110°F outlet water temperature.

# RESIDENTIAL Premier® Power-Vent DV



Easy to install • Connects to 1/2" gas line • Vents using standard PVC • Small footprint-22"

### Vent length in feet

2" PVC 45 feet • 3" PVC 128 feet • 4" PVC 128 feet • Vertical or horizontal

### SPECIFICATIONS

MODEL	GALLON CAPACITY	FIRST HOUR DELIVERY	RECOVERY-GALLONS PER HOUR AT 90°F	BTU INPUT	HEIGHT	DIAMETER
GP650YTPDT	50	164	129	100,000	66-3/4"	22"

GP650YTPDT available in Natural Gas or Propane.

### PERFORMANCE COMPARISON

MODEL	THERMAL EFFICIENCY	FIRST HOUR DELIVERY
Premier® Power Vent DV 50-Gallon/100,000 BTU	96%	164 GALLONS
Standard 40-Gallon/40,000 BTU	78%	71 GALLONS
Standard 50-Gallon/40,000 BTU	78%	91 GALLONS
Premier® Power-Vent 50-Gallon/76,000 BTU	90%	127 GALLONS

# COMMERCIAL Force 90+™



Easy to install • Connects to 1/2" gas line • Vents using standard PVC • Small footprint-22"

### Vent length in feet

2" PVC 45 feet • 3" PVC 128 feet • 4" PVC 128 feet • Vertical or horizontal

### SPECIFICATIONS

MODEL	GALLON CAPACITY	BTU INPUT	RECOVERY 100°F RISE	HEIGHT	DIAMETER
SHE50100NE	50	100,000	116	66-3/4"	22"

SHE50100NE available in Natural Gas or Propane.

### PERFORMANCE COMPARISON

MODEL	THERMAL EFFICIENCY	RECOVERY GALLON AT 100°F
Force 90+™/ SHE50100NE	96%	116 GALLONS
Typical 70-Gallon/120,000 BTU Commercial Gas Model	80%	115 GALLONS

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