# PowerVent Ultra Low NOx (10 ng/J NOx Emissions) Gas Water Heaters

## Available in 40 and 50 Gallon Tall Gas Models

- **6-Year Limited Tank and Parts Warranty***
- **SCAQMD Rule 1121 Compliant: 10 ng/J NOx Emissions**
- **With ProtectionPlus™ the 6-Year Limited Tank Warranty Becomes 10 Years!**

### Guardian System™
- One-of-a-kind air/fuel shut-off device offers double protection
- Maintenance free – no filter to clean

### Environmentally Friendly Burner
- Ultra Low NOx radiant burner design
- Stainless steel construction
- 10 ng/J NOx emissions

### Self-Cleaning
- EverKleen™ patented system fights sediment build-up
- Reduces fuel costs
- Provides more hot water

### Flammable Vapor Detection Sensor
- Protective control system that disables the heater in the presence of flammable vapor accumulation

### Longer Life
- Patented magnesium anode rod design incorporates a special resistor that protects the tank from rust

### High Altitude Compliant
- All models are certified for applications up to 5,999 feet above sea level

### Flexible Venting Options
- Long venting lengths up to 100 feet
- PVC, ABS, or CPVC vent pipe options
- Vertical or horizontal termination

### Plus…
- Durable spark-to-pilot ignitor
- Brass drain valve and temperature and pressure relief valve are included
- Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements

*See Residential Warranty Certificate for complete warranty information.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate natural gas $1.218/therm; LP $1.87/gallon.

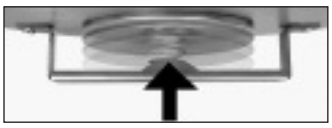
Energy Miser · gama · ENERGY STAR

Products meet or exceed the requirements of ENERGY STAR® Phase II effective September 1, 2010.

| DESCRIPTION | | | FEATURES | | | ROUGHING IN DIMENSIONS (SHOWN IN INCHES) | | | | | | | | ENERGY INFO. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TYPE | GAL. CAP. | MODEL NUMBER | GAS INPUT IN THOUS. BTU/HR. NAT. | RECOVERY IN G.P.H. 90° RISE NAT. | FIRST HOUR DEL. G.P.H. NAT. | HT. TO VENT A | TANK HT. B | DIAM. C | HT. TO GAS CONN. D | WATER CONN. CNTR. E | HT. TO SIDE T&P F | WATER CONN. G | SHIP. WT. (LBS) | ENERGY FACTOR NAT. | AVG. ANN. OPER. COST NAT. |
| TALL | 40 | 42VP40FN | 36 | 36.4 | 72 | 69-3/4 | 60 | 21 | 17-3/8 | 8 | 54 | 3/4 | 170 | 0.67 | $272 |
| | 50 | 42VP50FN | 38 | 38.4 | 94 | 69-1/2 | 59-3/4 | 23 | 17-3/8 | 8 | 53-3/4 | 3/4 | 200 | 0.67 | $272 |

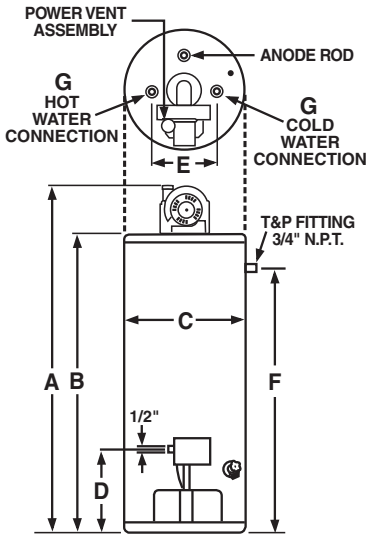
## Rheem Ultra Low NOx with Guardian System Features…

### Ultra Low NOx Burner
Environmentally friendly radiant burner significantly reduces NOx emissions. Stainless steel construction for increased durability and longevity.



### Exclusive Combustion Shut-off System
Should a spill incident occur, the Guardian System shuts off the gas supply and the air supply preventing a sustained vapor burn in the combustion chamber.

### Maintenance Free
Superior air filtration prevents the flame arrestor from becoming clogged by lint, dust and oil.




These units are designed to meet or exceed ANSI (American National Standards Institute) requirements and have been tested according to D.O.E. test procedures and meet or exceed the energy efficiency requirements of NAECA, ASHRAE standard 90, ICC Code and all state energy efficiency performance criteria for energy consuming appliances.

Before purchasing this appliance, read important energy cost and efficiency information available from your supplier.

**PROTECTIONPLUS™**
**6 YEAR LIMITED TANK WARRANTY BECOMES 10**

**For more details, see form 101-7.**

***In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.***

**Rheem Water Heating** • 101 Bell Road, Montgomery, Alabama 36117-4305 • www.rheem.com

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## 40 AND 50 GALLON MODELS MAXIMUM AND MINIMUM VENT LENGTHS

**VENTING INFORMATION FOR 2" VENTS**

| NUMBER OF 90° ELBOWS WITH VENT TERMINAL | NUMBER OF 45° ELBOWS | MINIMUM PIPE LENGTH REQ. (FT.) | MAXIMUM PIPE LENGTH (FT.) |
|---|---|---|---|
| One (1) | None | 3.0 | 44.0 |
| One (1) | One (1) | 3.0 | 41.0 |
| Two (2) | None | 3.0 | 38.0 |
| Two (2) | One (1) | 3.0 | 35.0 |
| Three (3) | None | 3.0 | 32.0 |

For the 2" vent, one 90° elbow is approximately equal to 6 feet of pipe. One 45° elbow is approximately equal to 3 feet of pipe.

**VENTING INFORMATION FOR 3" VENTS**

| NUMBER OF 90° ELBOWS WITH VENT TERMINAL | NUMBER OF 45° ELBOWS | MINIMUM PIPE LENGTH REQ. (FT.) | MAXIMUM PIPE LENGTH (FT.) |
|---|---|---|---|
| One (1) | None | 3.0 | 95.0 |
| One (1) | One (1) | 3.0 | 92.5 |
| Two (2) | None | 3.0 | 90.0 |
| Two (2) | One (1) | 3.0 | 87.5 |
| Three (3) | None | 3.0 | 85.0 |
| Three (3) | One (1) | 3.0 | 82.5 |
| Four (4) | None | 3.0 | 80.0 |
| Four (4) | One (1) | 3.0 | 77.5 |
| Five (5) | None | 3.0 | 75.0 |

For the 3" vent, one 90° elbow is approximately equal to 5 feet of pipe. One 45° elbow is approximately equal to 2.5 feet of pipe.

**NOTICE: The mixing of 2" and 3" vent pipe is not recommended. If 3" pipe is used, a 2" to 3" reducer fitting is recommended at the rubber coupling.**

**This water heater is supplied with a 2" Schedule 40 PVC 45° vent terminal. When venting with 3" pipe, a Schedule 40 PVC 45° vent terminal must be used. Screens for both 2" and 3" vent terminals have been included.**

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