

## Power Vent Water Heaters



**Professional Achiever™ Power Vent gas water heaters offer up to 100 foot vent runs, energy efficiency and the Guardian System**

### Efficiency

- .67 EF
- ENERGY STAR® rated

### Performance

- FHR: Up to 87 gallons for 50-gallon models and up to 71 gallons for 40-gallon models
- Recovery rate is 32.4 to 42.4 for 50-gallon models and 32.4 to 40.4 for 40-gallon models at a 90 degree rise

### Self-Diagnostic System

- Electronic gas control for improved monitoring and service



### Low Emissions

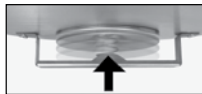
- Eco-friendly burner, low NOx design

### Features

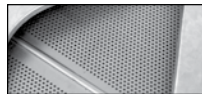
- Uses indoor air for combustion; blower exhausts the flue gases
- Standard 120 VAC electrical connection
- New whisper quiet blower

### Guardian System™ & Sensor

- Exclusive air/fuel shut-off device
- Maintenance free – no filter to clean
- Disables the heater in the presence of flammable vapor accumulation



Combustion Shut-off System



Flame Arrestor Plate



Maintenance Free

### Flexible Venting Options

- Long venting lengths up to 100 equivalent feet
- PVC, ABS, or CPVC vent pipe options
- Vertical or horizontal termination

### Longer Life

- Ruud exclusive R-Tech (resistored) anode rod provides long-lasting tank protection

### High Altitude Compliant

- Tall models certified for applications up to 7,700 ft. above sea level and short models up to 6,000 feet above sea level

### Plus...

- Enhanced flow brass drain valve
- Temperature and pressure relief valve included
- Low lead compliant
- Durable Silicon Nitride Ignitor (HSI)
- EverKleen™ patented system fights sediment build-up
- Standard replacement parts

### Warranty

- 6-Year limited tank and parts warranty\*
- With ProtectionPlus™ the 6-year limited tank warranty becomes 10-year

\*See Residential Warranty Certificate for complete information

Units meet or exceed ANSI requirements and have been tested according to D.O.E. procedures. Units meet or exceed the energy efficiency requirements of NAECA, ASHRAE standard 90, ICC Code and all state energy efficiency performance criteria.



### Professional Achiever Power Vent

40 and 50-Gallon Capacities  
Up to 42,000 Btu/h  
Natural and LP Gas



LEED Point = 1

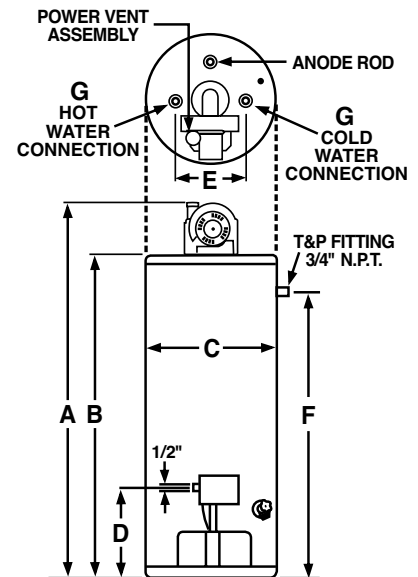
# Power Vent Water Heaters



## Specifications

| DESCRIPTION      |              |                     | FEATURES                     |    |                                |      |                           | ROUGHING IN DIMENSIONS (SHOWN IN INCHES) |                  |            |                             |                              |                                  |                             | ENERGY INFO.          |                  |      |
|------------------|--------------|---------------------|------------------------------|----|--------------------------------|------|---------------------------|------------------------------------------|------------------|------------|-----------------------------|------------------------------|----------------------------------|-----------------------------|-----------------------|------------------|------|
| T<br>Y<br>P<br>E | GAL.<br>CAP. | MODEL<br>NUMBER     | GAS INPUT IN<br>THOUS. BTU/H |    | RECOVERY IN<br>G.P.H. 90° RISE |      | FIRST HOUR<br>DEL. G.P.H. | HT. TO<br>TOP OF<br>ASSEMBLY<br>A        | TANK<br>HT.<br>B | DIAM.<br>C | HT. TO<br>GAS<br>CONN.<br>D | WATER<br>CONN.<br>CNTR.<br>E | HT. TO<br>SIDE T&P<br>VALVE<br>F | WATER<br>CONN.<br>SIZE<br>G | SHIP.<br>WT.<br>(LBS) | ENERGY<br>FACTOR |      |
|                  |              |                     | NAT.                         | LP | NAT.                           | LP   |                           |                                          |                  |            |                             |                              |                                  |                             |                       | NAT.             | LP   |
| Tall             | 40           | PROG40-40N RU67 PV  | 40                           |    | 40.4                           |      | 68                        | 67-3/8                                   | 59               | 19-3/4     | 14                          | 8                            | 53-1/2                           | 3/4                         | 140                   | 0.67             |      |
| Tall             | 40           | PROG40-36P RU67 PV  |                              | 36 |                                | 36.4 |                           | 67-3/8                                   | 59               | 19-3/4     | 14                          | 8                            | 53-1/2                           | 3/4                         | 140                   |                  | 0.67 |
| Tall             | 50           | PROG50-42N RU67 PV  | 42                           |    | 42.4                           |      | 87                        | 66-3/8                                   | 58               | 21-3/4     | 14                          | 8                            | 52-1/2                           | 3/4                         | 170                   | 0.67             |      |
| Tall             | 50           | PROG50-42P RU67 PV  |                              | 42 |                                | 42.4 |                           | 66-3/8                                   | 58               | 21-3/4     | 14                          | 8                            | 52-1/2                           | 3/4                         | 170                   |                  | 0.67 |
| Short            | 40           | PROG40S-36N RU67 PV | 36                           |    | 36.4                           |      | 71                        | 62-1/2                                   | 51-1/4           | 21-3/4     | 14                          | 8                            | 44-1/4                           | 3/4                         | 155                   | 0.67             |      |
| Short            | 40           | PROG40S-32P RU67 PV |                              | 32 |                                | 32.4 |                           | 62-1/2                                   | 51-1/4           | 21-3/4     | 14                          | 8                            | 44-1/4                           | 3/4                         | 155                   |                  | 0.67 |
| Short            | 50           | PROG50S-36N RU67 PV | 36                           |    | 36.4                           |      | 85                        | 62-1/2                                   | 51-1/4           | 23-3/4     | 14                          | 8                            | 44                               | 3/4                         | 175                   | 0.67             |      |
| Short            | 50           | PROG50S-32P RU67 PV |                              | 32 |                                | 32.4 |                           | 62-1/2                                   | 51-1/4           | 23-3/4     | 14                          | 8                            | 44                               | 3/4                         | 175                   |                  | 0.67 |

Energy Factor based on D.O.E. (Department of Energy) test procedures.



### Maximum and Minimum Vent Lengths for 2" Vents

| NUMBER OF 90° ELBOWS WITH VENT TERMINAL | NUMBER OF 45° ELBOWS | MINIMUM PIPE LENGTH REQ. (FT.) | MAXIMUM PIPE LENGTH (FT.) 0' - 2000' | MAXIMUM PIPE LENGTH (FT.) 2000' - 7700' * |
|-----------------------------------------|----------------------|--------------------------------|--------------------------------------|-------------------------------------------|
| One (1)                                 | None                 | 4.0                            | 44.0                                 | 24.0                                      |
| One (1)                                 | One (1)              | 4.0                            | 41.0                                 | 21.0                                      |
| Two (2)                                 | None                 | 4.0                            | 38.0                                 | 18.0                                      |
| Two (2)                                 | One (1)              | 4.0                            | 35.0                                 | 15.0                                      |
| Three (3)                               | None                 | 4.0                            | 32.0                                 | 12.0                                      |

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.

\*2,000' – 6,000' for short models.

### Maximum and Minimum Vent Lengths for 3" Vents

| NUMBER OF 90° ELBOWS WITH VENT TERMINAL | NUMBER OF 45° ELBOWS | MINIMUM PIPE LENGTH REQ. (FT.) | MAXIMUM PIPE LENGTH (FT.) 0' - 2000' | MAXIMUM PIPE LENGTH (FT.) 2000' - 7700' * |
|-----------------------------------------|----------------------|--------------------------------|--------------------------------------|-------------------------------------------|
| One (1)                                 | None                 | 5.0                            | 95.0                                 | 75.0                                      |
| One (1)                                 | One (1)              | 5.0                            | 92.5                                 | 72.5                                      |
| Two (2)                                 | None                 | 5.0                            | 90.0                                 | 70.0                                      |
| Two (2)                                 | One (1)              | 5.0                            | 87.5                                 | 67.5                                      |
| Three (3)                               | None                 | 5.0                            | 85.0                                 | 65.0                                      |

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.

\*2,000' – 6,000' for short models.

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