



## Professional Achiever® Power Vent gas water heaters offer up to 150 foot vent runs, energy efficiency and the Guardian System

### Efficiency

- .65 - .70 UEF

### Performance

- FHR: 66 - 86 gallons
- Recovery: 32.4 to 42.4 GPH at a 90° F rise

### Self-Diagnostic System

- Electronic gas control for improved monitoring and service



### Low Emissions

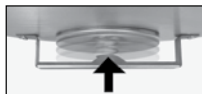
- Eco-friendly burner, low NOx design

### 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
- Protective control system that disables the heater in the presence of flammable vapor accumulation



Combustion Shut-off System



Flame Arrestor Plate



Maintenance Free

### Flexible Venting Option

- Long venting lengths up to 150 equivalent feet
- PVC, ABS, or CPVC vent pipe options
- Vertical or horizontal termination

### Longer Life

- Premium grade anode rod provides long-lasting tank protection

### High Altitude Compliant

- All models certified for applications up to 7,800 ft. above sea level

### Plus...

- Side water connections for space heating applications **available on select models**
- Enhanced flow brass drain valve
- Temperature and pressure relief valve included
- Low lead compliant
- EverKleen® patented system fights sediment build-up
- High Ambient Temperature Service Kit available for installations from 100-175° F. See chart on page 2 for more information

- 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

See specifications chart on back.

# Power Vent Water Heaters



## Specifications

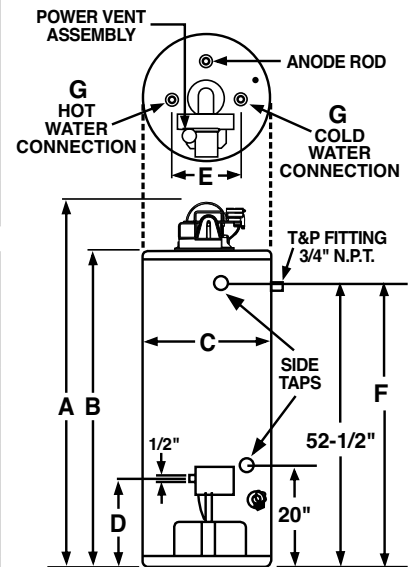
TYPE	DESCRIPTION			FEATURES						ROUGHING IN DIMENSIONS (SHOWN IN INCHES)							ENERGY INFO.	
	NOMINAL GALLON CAPACITY	RATED GALLON CAPACITY	MODEL NUMBER	GAS INPUT IN THOUS. BTU/H		RECOVERY IN G.P.H. 90° F RISE		FIRST HOUR RATING (GALLONS)		HEIGHT TO TOP OF ASSEMBLY A	TANK HEIGHT B	DIAM. C	HT. TO GAS CONN. D	WATER CONN. CENTER E	HT. TO SIDE T&P VALVE F	WATER CONN. SIZE G	SHIP WT. (LBS)	UNIFORM ENERGY FACTOR (UEF)
				NAT.	LP	NAT.	LP	NAT.	LP									
Tall	40	38	PROG40-40N RU67 PV	40	-	40.4	-	86	-	66-1/4	59	19-3/4	14	8	53-1/2	3/4	137	0.69
Tall	40	38	PROG40-36P RU67 PV	-	36	-	36.4	-	71	66-1/4	59	19-3/4	14	8	53-1/2	3/4	137	0.68
Tall	50	48	PROG50-42N RU67 PV	42	-	42.4	-	78	-	65-1/2	58	21-3/4	14	8	52-1/2	3/4	170	0.68
Tall	50	48	PROG50-42P RU67 PV	-	42	-	42.4	-	78	65-1/2	58	21-3/4	14	8	52-1/2	3/4	170	0.68
Short	40	39	PROG40S-36N RU67 PV	36	-	36.4	-	66	-	58-1/4	51-1/4	21-3/4	14	8	44-1/4	3/4	161	0.65
Short	40	39	PROG40S-32P RU67 PV	-	32	-	32.4	-	66	58-1/4	51-1/4	21-3/4	14	8	44-1/4	3/4	161	0.65
Short	50	48	PROG50S-36N RU67 PV	36	-	36.4	-	78	-	58-1/4	51-1/4	23-3/4	14	8	44	3/4	185	0.70
Short	50	48	PROG50S-32P RU67 PV	-	32	-	32.4	-	78	58-1/4	51-1/4	23-3/4	14	8	44	3/4	185	0.70
<b>Models with Installed Side Water Connections</b>																		
Tall	50	48	PROG50-42N RU PV AX	42	-	42.4	-	78	-	65-1/2	58	21-3/4	14	8	52-1/2	3/4	167	0.68
Tall	50	48	PROG50-42P RU PV AX	-	42	-	42.4	-	78	65-1/2	58	21-3/4	14	8	52-1/2	3/4	167	0.68

Uniform Energy Factor and rated gallon capacity based on Department of Energy (DOE) requirements.

Maximum and Minimum Vent Lengths for 2 - 3" Vents up to 2,000 Ft. (609 m) Above Sea Level								
Model	Gas	Heater input Btu/hr.	Vent System Diameter Inches	Min. Allowed Equivalent Vent Length		Max Allowed Equivalent Vent Length		Vent System Termination
				Feet	Meters	Feet	Meters	
All	Natural & Propane	42,000, 40,000, 36,000, 32,000	2	7	2.1	55	16.7	45° Elbow
			3	7	2.1	150	45.7	45° Elbow

Maximum and Minimum Vent Lengths for 2 - 3" Vents From 2,000 Ft. (609 m) through 7,800 Ft. (2,377 m) Above Sea Level								
Model	Gas	Heater Input Btu/hr.	Vent System Diameter Inches	Min. Allowed Equivalent Vent Length		Max Allowed Equivalent Vent Length		Vent System Termination
				Feet	Meters	Feet	Meters	
40 Gallon	Natural	40,000	2	7	2.1	25	7.6	45° Elbow
			3	7	2.1	150	45.7	45° Elbow
40 Gallon	Propane	36,000	2	7	2.1	35	10.6	45° Elbow
			3	7	2.1	150	45.7	45° Elbow
40 Gallon	Natural & Propane	36,000, 32,000	2	7	2.1	40	12.2	45° Elbow
			3	7	2.1	150	45.7	45° Elbow
50 Gallon	Natural & Propane	42,000, 36,000, 32,000	2	7	2.1	35	10.6	45° Elbow
			3	7	2.1	150	45.7	45° Elbow

For the 2" and 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.



High Ambient Installations				
Part	Temperature Rating	Vent Length	Venting Material Required	Fitting Material Required
SP21171- High Ambient Temperature Kit	100-175° F	First 10 equivalent feet of vent pipe and/or fittings be of CPVC or ABS	CPVC (Schedule 40, ASTM F441)	CPVC (Schedule 40, ASTM F438)
			ABS (Schedule 40, ASTM D2661)	ABS (Schedule 40 DWV, ASTM D2661)

See Use and Care Manual for additional information and instructions.

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