PowerVent with Electronic Control Water Heaters

The PowerVent with Electronic Control is an energy saving, induced draft gas water heater with flexible venting options

Efficiency

- .67 EF exceeds ENERGY STAR® Phase II requirements, Sept. 2010

Performance

- FHR: 85 to 87 gallons for 50-gallon models and 68 to 71 gallons for 40-gallon models
- Recovery rate is 40.4 to 42.4 for 50-gallon models and 36.4 for 40-gallon models at a 90 degree rise

Self-Diagnostic System

- Integrated system control for easy installation and service

Low Emissions

- Eco-friendly burner, low NOx design

Technology

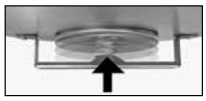
- PV electronic control
- Standard 110 volt electrical connection
- New quiet blower

What is a PV Electronic Control?

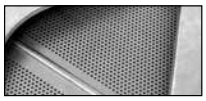
- **Available hot water display:** The LCD screen provides a simple three-level bar graph for an at-a-glance indication of how much hot water remains in the tank
- **Adjustable set-point:** The homeowner can adjust the water temperature up or down at the LCD
- **Automatic "scald warning":** Setting the water temperature above 120°F triggers an alert calling attention to a potential hot water risk
- **Vacation mode option:** a homeowner can make the adjustment remotely at the LCD device
- **Control lockout:** the user must depress the "up" and "down" temperature buttons for five seconds to unlock the control
- **"Service Needed" indicator:** The user or service technician can display the specific failure codes and quickly identify problems in need of remedy, saving service time and cost

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 feet
- PVC, ABS, or CPVC vent pipe options
- Vertical or horizontal termination

Longer Life

- Patented magnesium anode rod with resistor protects the tank from rust

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…

- Brass drain valve and temperature and pressure relief valve are included
- EverKleen™ device removes sediment
- 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.

PV with Electronic Control
Induced Draft
40 and 50-Gallon Capacities
Natural and LP Gas

Electronic Control

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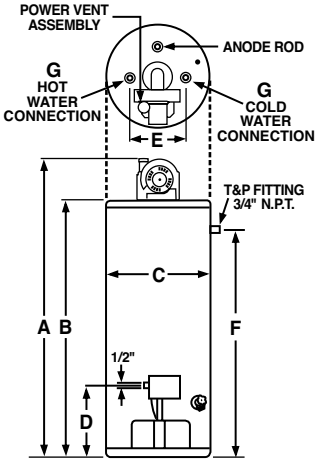
PowerVent with Electronic Control Water Heaters

Ruud PV with Electronic Control Specifications

DESCRIPTION			FEATURES					ROUGHING IN DIMENSIONS (SHOWN IN INCHES)								ENERGY INFO.	
TYPE	GAL. CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/H		RECOVERY IN G.P.H. 90° RISE		FIRST HOUR DEL. G.P.H. NAT.	HT. TO TOP OF ASSEMBLY A	TANK HT. B	DIAM. C	HT. TO GAS CONN. D	WATER CONN. CNTR. E	HT. TO SIDE T&P VALVE F	WATER CONN. SIZE G	SHIP. WT. (LBS)	ENERGY FACTOR NAT.	AVG. ANN. OPER. COSTS NAT.
			NAT.	LP	NAT.	LP											
TALL	40	PVP40E2-E	40	36	40.4	36.4	68	67-3/8	59	19-3/4	14	8	53-1/2	3/4	140	0.67	$272
	50	PVP50E2-E	42	42	42.4	42.4	87	66-3/8	58	21-3/4	14	8	52-1/2	3/4	170	0.67	$272
SHORT	40	PVP40SE2-E	36	32	36.4	32.4	71	62-1/2	51-1/4	21-3/4	14	8	44-1/4	3/4	155	0.67	$272
	50	PVP50SE2-E	36	32	36.4	32.4	85	62-1/2	51-1/4	23-3/4	14	8	44	3/4	175	0.67	$272

Specify LP gas when ordering. Add "P" to the model number. Example PVP40PE2-E.
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.



Tall Models Maximum and Minimum Vent Lengths

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.

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.

Short Models Maximum and Minimum Vent Lengths

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' - 6000'
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.

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' - 6000'
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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.

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