

# Essential

Essential Power Vent gas water heaters offer up to 100 foot vent runs, energy efficiency and the flammable vapor detection system

## EFFICIENCY

- .61 - 69 UEF
- ENERGY STAR® rated

## PERFORMANCE

- FHR: up to 79 gallons for 50-gallon models and up to 86 gallons for 40-gallon models
- Recovery: 32.4 to 42.4 GPH at a 90° F rise, depending on model

## 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
- Whisper quiet blower

## FLAMMABLE VAPOR DETECTION SYSTEM

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

## FLEXIBLE VENTING OPTIONS

- Long venting lengths up to 100 equivalent feet
- 2" or 3" 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

- Tall models certified for applications up to 7,700 ft. above sea level and short models up to 5,999 ft. above sea level

## PLUS...

- 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\*

\*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.



*Essential  
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.

# Essential

## Power Vent 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 HR. DELIVERY G.P.H.	HT. 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 WEIGHT (LBS)	UNIFORM ENERGY FACTOR (UEF)
				NAT.	LP	NAT.	LP										
Tall	40	38	★ 6GR40PVE2-40	40	-	40.4	-	86	67-3/8	59	19-3/4	14	8	53-1/2	3/4	140	0.69
Tall	40	38	★ 6GR40PVE2-36P	-	36	-	36.4	86	67-3/8	59	19-3/4	14	8	53-1/2	3/4	140	0.69
Tall	50	48	★ 6GR50PVE2-42	42	-	42.4	-	78	66-3/8	58	21-3/4	14	8	52-1/2	3/4	170	0.68
Tall	50	48	★ 6GR50PVE2-42P	-	42	-	42.4	78	66-3/8	58	21-3/4	14	8	52-1/2	3/4	170	0.68
Short	40	38	★ 6GR40SPVE2-36	36	-	36.4	-	64	62-1/2	51-1/4	21-3/4	14	8	44-1/4	3/4	155	0.69
Short	40	38	★ 6GR40SPVE2-32P	-	32	-	32.4	64	62-1/2	51-1/4	21-3/4	14	8	44-1/4	3/4	155	0.61
Short	50	48	★ 6GR50SPVE2-36	36	-	36.4	-	79	62-1/2	51-1/4	23-3/4	14	8	44	3/4	175	0.65
Short	50	48	★ 6GR50SPVE2-32P	-	32	-	32.4	79	62-1/2	51-1/4	23-3/4	14	8	44	3/4	175	0.65

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

★ ENERGY STAR® compliant model.

### 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.

