



EcoSense®

Rheem EcoSense® High Efficiency Condensing Power Direct Vent gas water heaters are a perfect choice when indoor air quality is a concern

Efficiency

- 0.80 - .83 UEF
- ENERGY STAR® rated

Performance

- FHR: 87 gallons for natural and LP gas
- Recovery: 43.6 to 48.5 GPH at a 90° F rise, depending on model

Self-Diagnostic System

- Integrated system control for easy installation and service
- Diagnostic system control can be replaced without draining the water heater

Low Emissions

- Eco-friendly burner, low NOx design

Features

- Power direct vents are an ideal choice when either indoor air quality or negative air pressure are concerns
- Two-pipe system: one pipe pulls in outside air for combustion and the other exhausts combustion gases
- 120 VAC, 60Hz, induced draft blower
- New whisper quiet blower

Innovative Technology

- Proven center flue design with submerged coil type condensing heat exchanger
- Heat exchanger is porcelain coated inside and out for increased product life

Maintenance Free Burner System

- FVIR compliant protective
- Control system that disables the heater in the presence of flammable vapor accumulation

Flexible Venting Options

- Long venting lengths up to 60 feet
- Use 2 or 3 inch diameter PVC, ABS, or CPVC vent pipe options. (In Canada ULC S636 PVC and CPVC must be used.)
- Vertical or horizontal termination
- Concentric vent kit available

Longer Life

- Dual anode rods protect the tank from corrosion

High Altitude Compliant

- Models are certified for applications up to 9,000 feet above sea level

Plus...

- Enhanced flow brass drain valve
- Temperature and pressure relief valve included
- Low lead compliant
- Durable silicon nitride igniter (HSI)
- Inlet tube with diffuser enhances heat transfer
- Front access to condensate trap and vent pipe
- Condensate neutralizer option
- Standard replacement parts

Warranty

- 6-Year limited warranty for tank and parts, 1-year full in-home labor 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.



Rheem EcoSense® High Efficiency Condensing Power Direct Vent

38 and 48-Gallon Capacities
Up to 40,000 Btu/h



LEED Points = 2

See specifications chart on back.



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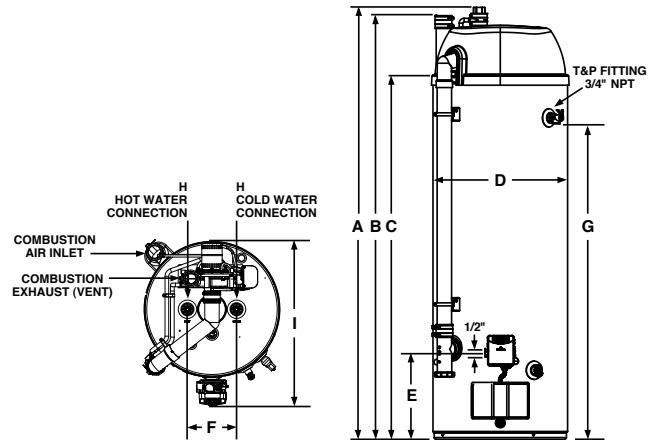
Rheem EcoSense® High Efficiency Condensing Power Direct Vent Specifications

Fuel Type	Description	Nominal Gallon Capacity	Rated Gallon Capacity	Model Number	Gas Input in Thous. Btu/h	Recovery in G.P.H. 90° F Rise	First Hour Delivery G.P.H.	Ht. to Vent A	Ht. to Air Inlet B	Tank Height C	Diam. D	Ht. to Gas Conn. E	Water Conn. Center F	Ht. to Side T&P Valve G	Water Conn. Size H	Front to Back I	Ship Weight (LBS)	Uniform Energy Factor (UEF)
Natural Gas	Short	38	37	ECORHE40S	40	48.5	87	60-3/8	60-1/8	51-1/16	22-1/8	14-1/8	8	44-1/4	3/4	26-11/16	220	0.83
Natural Gas	Tall	48	46	ECORHE50	40	48.5	87	68-3/4	68-5/8	59-11/16	22-1/8	14-1/8	8	52-7/8	3/4	26-11/16	250	0.80
Liquid Propane	Short	38	37	ECORHE40SP	36	43.6	87	60-3/8	60-1/8	51-1/16	22-1/8	14-1/8	8	44-1/4	3/4	26-11/16	220	0.83
Liquid Propane	Tall	48	46	ECORHE50P	36	43.6	87	68-3/4	68-5/8	59-11/16	22-1/8	14-1/8	8	52-7/8	3/4	26-11/16	250	0.80

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



LEED Points = 2



Air-Inlet and Venting Information

From Sea Level Through 5,999 ft. Above Sea Level					
Model	Vent & Combustion Air-Inlet Pipe Diameter (Inches)	Minimum Allowed Equivalent Vent & Combustion Air-Inlet Lengths – Each Pipe Run (Ft.)	Maximum Allowed Equivalent Vent & Combustion Air-Inlet Lengths – Each Pipe Run (Ft.)	Vent and Combustion Air-Inlet System Termination(s)	
ECORHE40S	2	7	30	90° Elbows	Concentric*
ECORHE40S	3	7	60	90° Elbows	Concentric*
ECORHE50	2	7	30	90° Elbows	Concentric*
ECORHE50	3	7	60	90° Elbows	Concentric*

From 6,000 ft. Above Sea Level Through 8,999 ft. Above Sea Level					
Model	Vent & Combustion Air-Inlet Pipe Diameter (Inches)	Minimum Allowed Equivalent Vent & Combustion Air-Inlet Lengths – Each Pipe Run (Ft.)	Maximum Allowed Equivalent Vent & Combustion Air-Inlet Lengths – Each Pipe Run (Ft.)	Vent and Combustion Air-Inlet System Termination(s)	
ECORHE40S	2	Not Allowed	Not Allowed	–	–
ECORHE40S	3	7	45	90° Elbows	Concentric*
ECORHE50	2	Not Allowed	Not Allowed	–	–
ECORHE50	3	7	45	90° Elbows	Concentric*

One 90° elbow is equivalent to 5 feet of straight pipe. One 45° elbow is equivalent to 2.5 feet of straight pipe.

The vent and combustion air inlet terminations are not included in the equivalency calculations.

* Use only Rheem 3 inch concentric termination kit SP20245.

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

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