



The new degree of comfort.[®]

Rheem[®] Condensing Tankless Water Heater with Built-In Recirculation

Key Features

- **Compatible with 1/2" gas line**
- **Built-in recirculation** — Provides instant hot water at the tap¹ saving time and reducing water waste
- **Timer-Based Recirculation** — Gives homeowner options to program unit timer to match their daily routine
- **Internal Recirculation** — Pumps water through the heat exchanger in a loop to prevent cold water bursts
- **Automatic Freeze Protection** — Pump turns on at 46°F, recirculating internally to keep the unit safe from freezing temperatures
- **Max vent lengths: 150' @ 3", 60' @ 2"** — Means more flexible and versatile installation options
- **Common vent two units** — Fewer wall penetrations, easier to install and more flexible options
- **Vent with Room Air Intake (single units only, not common vented)** — Save time and money on installation
- **Max Flow Rate of 11 GPM** — for 199K BTU model
- **Perfect for Replacement** — Install with a crossover valve to use existing cold water line as a return



Crossover valve and service valves included.

\$175 VALUE



Specifications

Rheem Model Number		ECO200DVRHLN-B ECO200DVRHLP-B	ECO180DVRHLN-B ECO180DVRHLP-B
Gas Input Rate	MAX	199,000 BTU/h	180,000 BTU/h
	MIN	18,000 BTU/h	18,000 BTU/h
	High Altitude (2,500-10,000 ft.) ²	180,000 BTU/h	180,000 BTU/h
Uniform Energy Factor (UEF)		0.95	0.95
Gallons Per Minute (GPM)	Max Flow Rate	11.1 Gal	9.9 Gal
	45°F Rise	8.7 Gal	7.7 Gal
	77°F Rise	5.1 Gal	4.5 Gal
Number of Bathrooms ³		4	3 - 4
Temp. Range		100°F - 140°F	
Type		Indoor Direct Vent (Outdoor Conversion Kits available with kit sold separately: RTGH-RHX)	
Flue System		Sealed Combustion Direct Vent, Single Vent	
Ignition System		Direct Electronic Ignition / Automatic Flame Sensing	
Burner System		Premixed Metal Fiber Burner	
Gas Valve System		Air ratio valve	
Minimum Flow Activation Flow		0.5 GPM	
Minimum Continuous Flow Rate		0.4 GPM	
Internal Pipe Material		STS 304, Stainless Steel with PPS	
Water Holding Capacity		Under 2 Gallon	
Water Pressure	MAX	Hot water 150 psi	
	MIN	15 psi	
Gas Pressure	Nat. Gas	3.5" WC to 10.5" WC	
	LP Gas	8" WC to 14.0" WC	
Materials	Casing	Electrolytic Galvanized Iron	
	Heat Exchanger	Heat Exchanger : STS 304	
Safety Devices		Flame Sensor, Overheat Cut Off Limit Switch , Gas Leak Detector sensor, Water Leak Detector Sensor Exhaust Temperature Sensor, Water Temperature Sensor	
Warranty		12-Year Heat Exchanger – Residential 5-Year Heat Exchanger – Commercial 5-Year Parts including Pump 1-Year Labor	

**ECO200DVRHLN-B (LP)*
& ECO180DVRHLN-B (LP)***
Indoor Direct Vent Model
18,000-199,000 BTU/h
Natural and LP Gas

*For Propane models, replace the **N** with **P** when ordering.



Installation Information

Rheem Model Number	ECO200DV / ECO180DV
Height	27.6"
Width	17.3"
Depth	14.8"
Weight	85 lbs
Max. Vent Run	2" (60ft) / 3" (150ft)
Venting Materials	Schedule 40 PVC, CPVC, PP
Power Supply	120V 60Hz
Max. Power Consumption	172W(82W+90W_PUMP)
Gas Conn.	3/4"
Water Conn.	3/4"

¹ Individual results may vary.

² Natural Gas models only, LP models rated only to sea level.

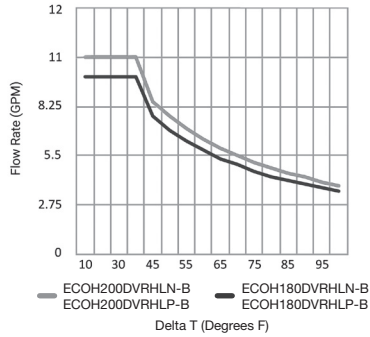
³ Individual results may vary based on temperature rise demands.

Rheem Condensing Tankless Gas Water Heaters with Built-In Recirculation



The new degree of comfort.™

Water Heater Flow Rate Curves

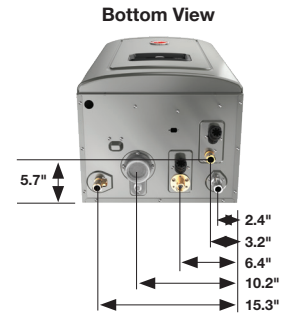


Model Number	Temperature Rise (° F)							
	35°	45°	50°	60°	70°	80°	90°	100°
ECOH200DV Water Flow (GPM)	11.0	8.5	7.7	6.4	5.5	4.8	4.3	3.8
ECOH180DV Water Flow (GPM)	9.9	7.7	6.9	5.8	5.0	4.3	3.9	3.5

Above estimates are for sizing purposes only.

Model #	Inlet Temp. 37-47°		Inlet Temp. 47-57°		Inlet Temp. 57-62°		Inlet Temp. 62-77°	
	Max. GPM	Approx. Usage	Max. GPM	Approx. Usage	Max. GPM	Approx. Usage	Max. GPM	Approx. Usage
ECOH200DV	4.8	☺☺☺	5.5	☺☺☺☺	6.4	☺☺☺☺☺	7.7	☺☺☺☺☺☺
ECOH180DV	4.3	☺☺☺	5.0	☺☺☺☺	5.8	☺☺☺☺☺	6.9	☺☺☺☺☺☺

Dimensions



Venting

Maximum Vent Length for Direct Vent (2 Pipe)

Number of Water Heaters Common Vented	PIPE SIZE		
	2"	3"	4"
1	60'	150'	N/A
2	N/A	60'	100'

NOTE: Minimum vent length 7' for 2" and 3" venting.

Venting Materials Allowed: PVC, CPVC, PP

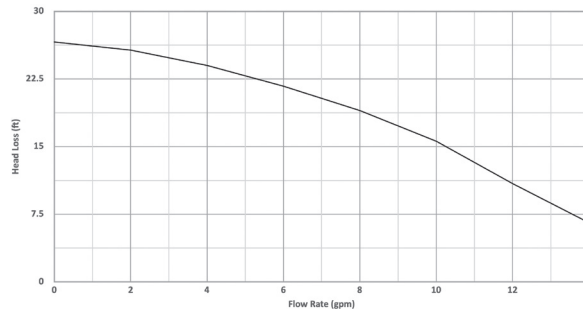
	Equivalent Elbow Lengths in Ft. of Straight Pipe	
	2"	3"
90°	8'	5'
45°	4'	2.5'

Recirculation Lengths

Maximum Equivalent Recirculation Length	
3/4"	500'
1/2"	200'

NOTE: Refer to fitting manufacturer guide for pressure loss in fittings expressed as equivalent feet.

Recirculation Pump Head Loss Curve



INCLUDED IN THE BOX:

- Tankless water heater with built-in recirculation pump
- Brass service valves
- Crossover valve
- Pressure relief valve
- 5' 120V 3-prong power cord
- Mounting & spare parts kit
- Vent screens
- Use & care manual

ALSO NEEDED FOR INSTALLATION:

- Schedule 40 PVC venting in 2" or 3" (sold separately)
- 120V outlet near installation location*
- Water and gas lines near installation location*
- Condensate Wastewater Neutralizer (sold separately)*

*Check local code requirements

OPTIONAL ACCESSORIES:

- On-Demand Recirculation kit & Manual Wall Switch
- Venting kits

Accessories available at homedepot.com

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