

The new degree of comfort."

Rheem[®] Professional *Prestige*[®] Combination Boiler

Key Features

- Space Heating and Hot Water Efficient heating combined with continuous hot water all from one unit for space and cost savings
- Perfect for Replacing a Boiler Compatible with any hyrdonic heat emitting devices including air handlers
- Saves Space A single, compact combi boiler can replace a boiler AND tank water heater
- Built-in Auto-Feeder Maintains hydronic loop pressure automatically between 12-30 psi
- Outdoor Reset Sensor Tracks outdoor temperatures and overrides the heating set point as needed to keep the home comfortable when weather changes
- Auto Boost Feature¹ If the thermostat set point has not been achieved in a reasonable time, the combi will auto boost the hydronic loop to reach the desired temperature more quickly
- Max Vent Lengths: 100' @ 3", 50' @ 2"² — Means more flexible and versatile installation options
- Vent with Room Air³ Save time and money on installation
- **4.5 GPM at 77°F Rise** for 199,000 BTU model

Specif	ficati	ons

Rheem Mod	el Number	RCBH199DVLN RCBH199DVLP	RCBH180DVLN RCBH180DVLP			
Gas Input Rate⁵	MAX	120,000 BTU/h	100,000 BTU/h			
(Heating Mode)	MIN	18,000 BTU/h	18,000 BTU/h			
Gas Input Rate⁵	MAX	199,000 BTU/h	180,000 BTU/h			
(Domestic Hot Water)	MIN	18,000 BTU/h	18,000 BTU/h			
AFUE		95	95			
Turndown Ratio	(Heating Mode)	6.7:1	5.6:1			
Turndown R	atio (DHW)	11:1	10:1			
Gallons Per Minute -	MAX GPM	9.9 GPM	9.0 GPM			
GPM (Domestic	45°F Rise	7.7 GPM	7.0 GPM			
Hot Water)	77°F Rise	4.5 GPM	4.1 GPM			
Number of E	Bathrooms ⁶	2 - 2.5	2			
T. D.	Heating Mode	100°F -	- 180°F			
Temp. Range	Domestic Hot Water	90°F -	140°F			
Тур	e	Indoor Direct Vent				
Flue Sy	vstem	Sealed Combustion Direct Vent or Room Air Intake				
Ignition	System	Direct Electronic Ignition /	Automatic Flame Sensing			
Burner S	System	Premixed Meta	al Fiber Burner			
Gas Valve	System	Air rati	o valve			
Minimum Flow A	Activation Flow	0.5 (GPM			
Minimum Contin	uous Flow Rate	0.4 GPM				
Internal Pip	Internal Pipe Material		STS 304, Copper Tubing (Primary and Secondary)			
Water Holdin	g Capacity	Under 2 Gallons				
Water Pressure ⁷	MAX	DHW150 psi/ Heating 30 psi				
water Pressure	MIN	DHW 15 psi/ Heating 12 psi				
Gas Pressure	Nat. Gas	3.5" WC to 10.5" WC				
das Fressure	LP Gas	8.0" WC to 14.0" WC				
Materials	Casing		Cold Rolled Carbon Steel			
wateriais	Heat Exchanger	STS 304 Stainless Steel				
Safety Devices		Flame Sensor, Overheat Cut Off Limit Switch, Gas Leak Detector, Water Leak Detector, Exhaust Thermistor, Pressure Sensor, Heating Supply Thermistor				
Warra	anty		Residential – 10-Year Heat Exchanger, 5-Year Parts, 1-Year Labor			

P5% AFUE qualifies for top vates across the US - see local offers for details

RCBH199DVLN⁴ & RCBH180DVLN⁴

Indoor Direct Vent Only 18,000-199,000 BTU/h Natural and LP Gas



Installation Information

Rheem Model Number	RCBH199DVLN / RCBH180DVLN	
Height	28.7"	
Width	17.3"	
Depth	14.8"	
Weight	90 lbs.	
Max. Vent Run	2"(50ft) / 3"(100ft)	
Venting Materials	Schedule 40 PVC, CPVC, PP	
Power Supply	120V 60Hz 6' power cord included	
Max. Power	187W (71W + 116W Pump) for RCBH199DVLN	
Consumption	180W (64W + 116W Pump) RCBH180DVLN	
Gas Conn.	3/4"	
Water Conn.	3/4"	
Glycol Mix ⁸	Up to 50%	

 ¹ Auto Boost Feature requires installation of outdoor reset sensor.
 ² Up to 50' @ 2" and 100' @ 3"; Maximum equivalent venting lengths: see Installation Instructions for additional details.

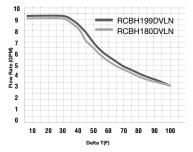
³ Follow the National Fuel Gas Code (ANSI Z223.1 / NFPA 54)

⁴ For Propane models, replace the N with P when ordering.

⁵ Gas input (BTU/h) derates at higher than sea level installations.
⁶ Individual results may vary based on temperature rise demands

⁷ DHW water pressure must be greater than the heating system water pressure. ⁸ Glycol mixture will derate system performance. Use propylene glycol only. The new degree of comfort.

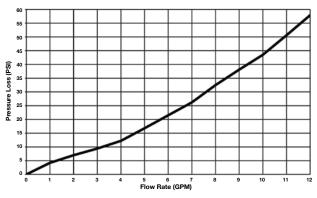
Water Heater Flow Rate Curves



	Temperature Rise (°F)								
Model Number 30° 40° 45° 50° 60° 70° 80° 90° 100°						100°			
RCBH199DVLN Water Flow (GPM)	9.9	8.6	7.7	7.0	5.8	4.9	4.3	3.8	3.2
RCBH180DVLN Water Flow (GPM)	9.0	8.3	7.0	6.5	5.4	4.6	4.0	3.6	3.2

Above estimates are for sizing purposes only.

RCBH Pressure Loss



Venting

Maximum Vent Length for Direct Vent (2 Pipe)

Number of Water Heaters	PIPE SIZE				
Common Vented	2"	3"	4"		
1	50'	100'	N/A		
2	N/A	50'	83'		

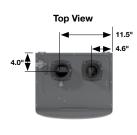
NOTE: Minimum vent length 7' for 2" and 3" venting.

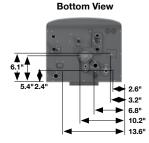
Parts & Accessories

Venting Materials Allowed: Schedule 40 PVC,	
CPVC, PP	

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

Dimensions







Condensate Neutralizer	Manifold Accessory	Vent Screens	Service Valves	CH Pressure Relief Valve (CH Line 3/4" 30 psi)	Outdoor Temperature Sensor	Bracket and Anchors
SP12151 - (Optional)*	1					
Safely dispose of condensate	RTG20318 – (Optional)	SP20895 - 2" (Included) SP20896 - 3" (Included)	RTG20220AB – (Sold Separately)	(Included)	(Included)	(Included)

*Check your local plumbing codes

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

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