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
- **Hydronic Heating** Compatible with hydronic air handler, hydronic fan coils, baseboard radiator, and radiant flooring
- 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

Specifications

- 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
- Power-Vent® Capable3
- 4.5 GPM at 77°F Rise for 199.000 BTU model

Rheem Mod	lel Number	RCBH199DVLN RCBH199DVLP	RCBH180DVLN RCBH180DVLP		
Gas Input Rate ⁵	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		
AFU	JE	0.95	0.95		
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		
Town Dones	Heating Mode	100°F - 180°F			
Temp. Range	Domestic Hot Water	90°F - 140°F			
Тур	е	Indoor Direct Vent / Power-Vent®			
Flue Sy	/stem	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 ration	o valve		
Minimum Flow A	Activation Flow	0.5 (GPM		
Minimum Contin	uous Flow Rate	0.4 GPM			
Internal Pip	e Material	STS 304, Copper Tubing (Primary and Secondary)			
Water Holdin	ng Capacity	Under 2 Gallons			
Water Pressure ⁷	MAX	DHW150 psi/ Heating 30 psi			
water Fressure	MIN	DHW 15 psi/ l	Heating 12 psi		
Gas Pressure	Nat. Gas	3.5" WC to 10.5" WC			
Gas Flessule	LP Gas	8.0" WC to	14.0" WC		
Materials	Casing Cold Rolled Carbon Steel				
Waterials	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			



RCBH199DVLN⁴ & RCBH180DVLN⁴

Indoor Direct Vent / Power-Vent® 18.000-199.000 BTU/h Natural and LP Gas









Installation Information

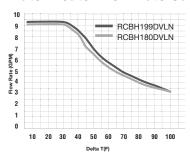
Rheem Model Number	RCBH199DVLN / RCBH180DVLN		
Height	28.7"		
Width	17.3"		
Depth	14.8"		
Weight	90 lbs.		
Max. Vent Run	2"(50ft) / 3"(100ft)		
Venting Materials	ULC S636 PVC, CPVC, PP		
Power Supply	120V 60Hz 6' power cord included		
Max. Power	187W (71W + 116W Pump) for RCBH199DVLN		
Consumption	180W (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 See National Fuel Gas Code, ANSI Z223.1 and CAN/CSA - B149.1
- Subject to local code requirements. May not be allowed in all jurisdictions.
- 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.



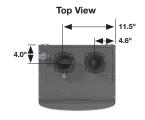
Water Heater Flow Rate Curves



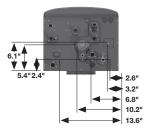
00 150						
0 45	50°	60°	70°	80°	90°	100°
.6 7.7	7.0	5.8	4.9	4.3	3.8	3.2
.3 7.0	6.5	5.4	4.6	4.0	3.6	3.2
_						6 7.7 7.0 5.8 4.9 4.3 3.8 3 7.0 6.5 5.4 4.6 4.0 3.6

Above estimates are for sizing purposes only.

Dimensions

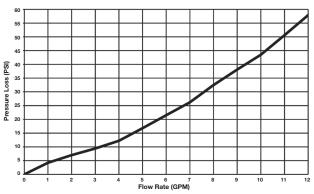


Bottom View





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.

Venting Materials Allowed: ULC S636 PVC, CPVC, PP

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

Parts & Accessories

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 - (Sold Separately)*						
Safely dispose of condensate	RTG20318 - (Sold Separately)	SP20895 – 2" (Included) SP20896 – 3" (Included)	RTG20220AB – (Sold Separately)	(Included)	(Included)	(Included)

^{*}Installation must comply with local, provincial, and national codes, laws, regulations and ordinances.

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

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