

The new degree of comfort.®

Rheem® ThermaForce® Super High-Efficiency **Condensing Combi Boilers**

Flexible Installation

- Moveable combustion air intake (left/right) and ability to flex vent in existing B-vent
- Extra long pipe fittings with notched sides for easy gripping with wrench
- Only 5 moving parts Fan, Bypass Valve, Pump, Gas Valve, and Damper
- Universal shared platform parts Easily diagnose and service with common parts for all ThermaForce units

Key Features

• Innovative Labyrinth Heat Exchanger with 2 independent copper waterways for maximum heat transfer and minimal heat loss

- Built-in ECM variable speed, high efficiency boiler pump
- Built-in Illuminated Touchscreen Control Panel
- Outdoor reset technology increases efficiency by lowering water temperature automatically
- Wireless cascading using RF balances workload of each unit for longer life
- Only Combi Boilers that can be cascaded for both space heating and domestic
- ENERGY STAR® certified with up to 95% AFUE and ASME-rated (excludes 160K combi model).

Specifications

MODEL NO.		RCBH-L125i	RCBH-L160i	RCBH-L199i	
Input Rate	MAX	99,000 BTU/h	125,000 BTU/h	125,000 BTU/h	
(Heating Mode)	MIN	16,500 BTU/h	23,000 BTU/h	28,500 BTU/h	
Output Rate	MAX	89,000 BTU/h	111,000 BTU/h	111,000 BTU/h	
(Heating mode)	MIN	15,800 BTU/h	22,000 BTU/h	27,100 BTU/h	
Input Rate	MAX	125,000 BTU/h	160,000 BTU/h	199,000 BTU/h	
(Domestic Hot Water)	MIN	16,500 BTU/h	23,000 BTU/h	28,500 BTU/h	
AFUE		95%	94%	95%	
Gas Pressure	MAX	14" WC 4" WC			
(Nat Gas or LP gas)	MIN				
Power Supply		120V/60Hz			
Weight lbs. (empty)		85	84		
Pressure vessel water conte		0.5		19	
Boiler Flow Rate - GPM	MAX	10	11	12	
	MIN	2			
Water Pressure	MAX		DHW 150 psi / Heating 43.5psi		
MIN		 	N 40psi / Heating		
Maximum Altitude		10,100 ft	10,100 ft	10,100 ft ³	
Ambient temperature – Low (°F)			32°		
Ambient temperature – High (°F)		122°			
Max relative humidity (non-condensing)		90%			
Tomp Pange Heating Mode		51°F-194°F			
	Domestic Hot Water	105°F-149°F			
Minimum Activation Flow Ra	Minimum Activation Flow Rate (DHW)		0.5 GPM		
Gallons per Minute - GPM	MAX	4		7	
(Domestic Hot Water)	67°F Rise	3.2	4.1	5	
Gas Connection		3/4" Male NPT			
Domestic Hot Water Connection		3/4" Male NPT			
Heating Connection		1" Male NPT			
Max equivalent vent length 2" (each side) ²		65'			
Max equivalent vent length 3" each side)		120'			
Ultra Low NOx		Meets 14ng/J NOx requirements - SCAQMD Rule 1146.2 compliant			
Warranty ¹		10-Year Heat Exchanger, 5-Year Parts, 1-Year Labor			

¹See Warranty Certificate for complete information. ²Approximate input derate of 10 - 16% at 2" maximum vent length. 3Natural Gas only, LP is 7,800 ft



RCBH-L125i, RCBH-L160i & RCBH-L199i

Indoor Direct Vent 125,000-199,000 BTU/h Natural Gas/LP Convertible



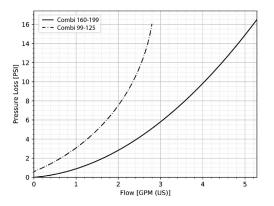






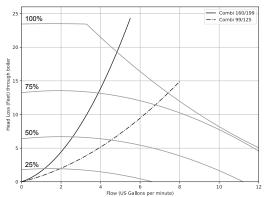


Water heater pressure drop - ThermaForce® RCBH-L125i, RCBH-L160i & RCBH-L199i





View the boiler head loss - ThermaForce® RCBH-L125i, RCBH-L160i & RCBH-L199i



Specifications

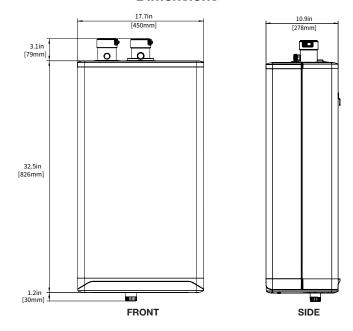
VENTING	MAXIMUM EQUIVALENT LENGTH		
Schedule 40 PVC, CPVC or Polyproyplene	(each side)		
2"	65¹ ²		
3"	120'		
2" or 3" 90° Long Sweep Vent Elbow	Allow 5 equivalent feet		
2" or 3" 90° Short Sweep Vent Elbow	Allow 8 equivalent feet		
2" or 3" 45° Vent Elbow	Allow 3 equivalent feet		
Polyproyplene			
PPs 87-90° Elbow	Allow 8 equivalent feet		
Flex PPS			
3" PPs Flex	35' Actual (Equivalent = Actual x 1.4)		

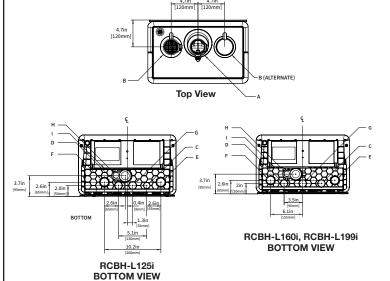
² Approximate input derate of 10 - 16% at 2" maximum vent length.

SURFACE	MIN. DISTANCE FROM COMBUSTIBLE SURFACES	RECOMMENDED DISTANCE FOR INSTALLATION AND SERVICE	
Front	2"	24"	
Rear	0"	0"	
Left Side	1.5"	6"	
Right Side	4"	6"	
Тор	2"	24"	
Bottom	8"	24"	

	PIPING CONNECTIONS	DIMENSION	
Α	Exhaust Outlet	2" Schedule 40 PVC	
В	Combustion Air Inlet	2" Schedule 40 PVC	
С	Cold Domestic Water Connection	3/4" Male NPT	
D	Hot Domestic Water Connection	3/4" Male NPT	
Е	Heating Water Inlet	1" Male NPT	
F	Heating Water Outlet	1" Male NPT	
G	Gas Inlet	3/4" Male NPT	
Н	Condensate Outlet	3/4" Hose	
I	Control Wiring	7/16" Rubber Plug	

Dimensions





Parts & Accessories

Floor Stand	Service Parts Kit	EZ Pipe Manifold	2" PVC Sidewall Vent Kit	3" PVC Sidewall Vent Kit
P-267C	P-911R	251-063, 251-064	P-741	P-742

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

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