

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 96% AFUE and ASME-rated (excludes 160K combi model).

Specifications

MODEL NO.		RCBH-L125i	RCBH-L160i	RCBH-L199i	
Input Rate	ИAX	99,000 BTU/h	125,000 BTU/h	125,000 BTU/h	
(Heating Mode)	/IN	16,500 BTU/h	23,000 BTU/h	28,500 BTU/h	
Output Hate	ИАХ	89,000 BTU/h	111,000 BTU/h	111,000 BTU/h	
(Heating mode)	/IN	15,800 BTU/h	22,000 BTU/h	27,100 BTU/h	
input riate	MAX	125,000 BTU/h	160,000 BTU/h	199,000 BTU/h	
(Domestic Hot Water)	/IN	16,500 BTU/h	23,000 BTU/h	28,500 BTU/h	
AFUE		95%	94%	95%	
Gas Pressure MAX (Nat Gas or LP gas) MIN		14" WC			
			4" WC		
Power Supply		120V/60Hz			
Weight lbs. (empty)		85	85 84		
Pressure vessel water content - USG		0.5	0.19		
Boiler Flow Rate - GPM	ИАХ	10	11	12	
N N	/IIN	2			
Water Pressure	ИАХ	DHW 150 psi / Heating 43.5psi			
N	/IN	DH\	N 40psi / Heating 8	Bpsi	
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 Pango	leating /lode	51°F-194°F			
H	omestic lot Water	105°F-149°F			
Minimum Activation Flow Rate	(DHW)	0.5 GPM			
dalions per williate - ar w	MAX	4		7	
(Domestic Hot Water) 6	7°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			
Ultra Low NOx					

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

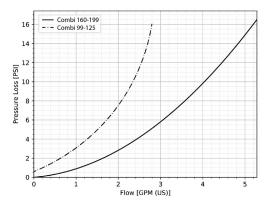






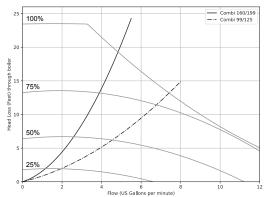


Water heater pressure drop - ThermaForce™ RCBH-L125i, RCBH-L160i & RCBH-L199i



The new degree of comfort.

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



Specifications

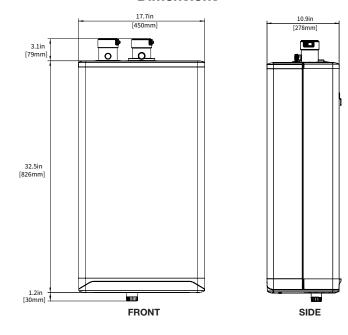
VENTING	MAXIMUM EQUIVALENT LENGTH		
Schedule 40 PVC, CPVC or Polyproyplene	(each side)		
2"	65' ²		
3"	120'		
2" or 3" 90° Long Sweep Vent Elbow	Allow 5 equivalent feet		
2" or 3" 90° Short Sweep Vent Elbow	Allow 8 equivalent feet		
2" or 3" 45° Vent Elbow	Allow 3 equivalent feet		
Polyproyplene			
PPs 87-90° Elbow	Allow 8 equivalent feet		
Flex PPS			
3" PPs Flex	35' Actual (Equivalent = Actual x 1.4)		

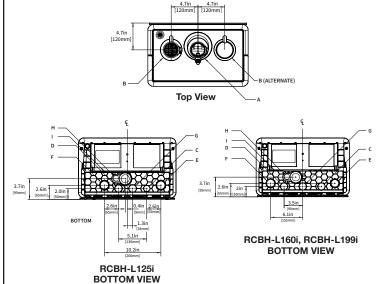
² Approximate input derate of 10 - 16% at 2" maximum vent length.

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.

Rheem Water Heating • 1115 Northmeadow Parkway, Suite 100 Roswell, Georgia 30076 • www.rheem.com

Rheem Canada Ltd./Ltée • 125 Edgeware Road, Unit 1 Brampton, Ontario L6Y 0P5 · www.rheem.ca

