The new degree of comfort.®

Rheem[®] ThermaForce[™] Super High-Efficiency Condensing 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 4 moving parts Fan, Pump, Gas Valve, and Damper
- Universal shared platform parts Easily diagnose and service with common parts for all ThermaForce™ units

Key Features

- Innovative single pass Labyrinth Heat Exchanger with Integrated copper waterways ensures 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
- ENERGY STAR® certified with up to 96% AFUE and ASME-rated

Specifications

MODEL NO.		RHBH-L99i	RHBH-L120i	
Input Rate	MAX	99,000 BTU/h	120,000 BTU/h	
input Rate	MIN	15,500 BTU/h	13,650 BTU/h	
Output Rate	MAX	89,000 BTU/h	108,000 BTU/h	
Output Rate	MIN	14,800 BTU/h	13,000 BTU/h	
AFUE		96%	95%	
Gas Pressure	MAX	14" WC		
(Nat Gas or LP gas)	MIN	4" WC		
Power Supply		120V/60Hz		
Weight lbs. (empty)		85		
Pressure vessel water content – USG		0.5		
Boiler Flow Rate – GPM	MAX	10	11	
Boller Flow Rate - GPM	MIN	2		
Water Pressure	MAX	43.5psi		
water Pressure	MIN	8psi		
Maximum Altitude		10,100 ft		
Ambient temperature – Low (°F)		32°		
Ambient temperature – High (°F)		122°		
Max relative humidity (non-condensing)		90%		
Temperature Range	Temperature Range		51°F - 194°F	
Gas Connection		3/4" Male NPT		
Max equivalent vent length 2" (each side) ²		65'		
Max equivalent vent length 3" each side)		120'		
Ultra Low NOx		Meets 14 ng/J NOx requirements - SCAQMD Rule 1146.2 compliant		
Warranty¹		10-Year Heat Exchanger, 5-Year Parts, 1-Year Labor		

¹See Warranty Certificate for complete information. ²Approximate input derate of 5 - 16% at 2" maximum vent length.



RHBH-L99i & RHBH-L120i

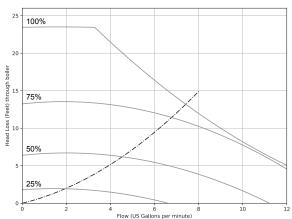
Indoor Direct Vent 99,000-120,000 BTU/h Natural Gas/LP Convertible







View the boiler head loss – ThermaForce™ RHBH-L99i & RHBH-L120i



Specifications

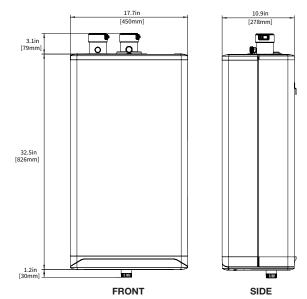
VENTING	MAX EQUIVALENT LENGTH	
Schedule 40 PVC, CPVC, or Polyproyplene	(each side)	
2"	65 ¹²	
3"	120'	
2" or 3" 90° Long Sweep Vent Elbow	Allow 5 equivalent feet	
2" or 3" 90° Short Sweep Vent Elbow	Allow 8 equivalent feet	
2" or 3" 45° Vent Elbow	Allow 3 equivalent feet	
Polyproyplene		
PPs 87-90° Elbow	Allow 8 equivalent feet	
Flex PPs		
3" PPs Flex	35' Actual (Equivalent = Actual x 1.4)	

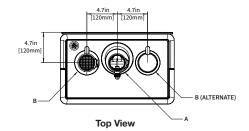
² Approximate input derate of 5 - 16% at 2" maximum vent length.

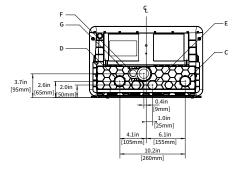
SURFACE	MIN. DISTANCE FROM COMBUSTIBLE SURFACES	RECOMMENDED DISTANCE FOR INSTALLATION AND SERVICE	
Front	2"	24"	
Rear	0"	0"	
Left Side	1.5"	6"	
Right Side	4"	6"	
Тор	2"	24"	
Bottom	8"	24"	

	PIPING CONNECTIONS	DIMENSION	
А	Exhaust Outlet	2" Schedule 40 PVC	
В	Combustion Air Inlet	2" Schedule 40 PVC	
С	Heating Water Inlet	1" Male NPT	
D	Heating Water Outlet	1" Male NPT	
E	Gas Inlet	3/4" Male NPT	
F	Condensate Outlet	3/4" Hose	
G	Control Wiring	Control Wiring 7/16" Rubber Plug	

Dimensions







Bottom View

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	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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