Encore®

Richmond[®] Encore[®] L-Series 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 L-Series units

KEY FEATURES

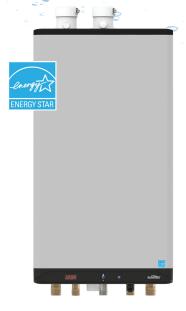
 Innovative Labyrinth Heat Exchanger with 2 independent copper waterways for maximum heat transfer and minimal heat loss

- 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 hot water
- ENERGY STAR® certified with up to 95% AFUE and ASME-rated (excludes 160K combi model).

Specifications

MODEL NO.		RMCBH-L125i	RMCBH-L160i	RMCBH-L199i
Input Rate (Heating Mode)	MAX	99,000 BTU/h	125,000 BTU/h	125,000 BTU/h
	MIN	16,500 BTU/h	23,000 BTU/h	28,500 BTU/h
Output Rate (Heating mode)	MAX	89,000 BTU/h	111,000 BTU/h	111,000 BTU/h
	MIN	15,800 BTU/h	22,000 BTU/h	27,100 BTU/h
Input Rate (Domestic Hot Water)	MAX	125,000 BTU/h	160,000 BTU/h	199,000 BTU/h
	MIN	16,500 BTU/h	23,000 BTU/h	28,500 BTU/h
AFUE		95%	94%	95%
Gas Pressure	MAX	14" WC		
(Nat Gas or LP gas)	MIN	4" WC		
Power Supply		120V/60Hz		
Weight lbs. (empty)		85 84		
Pressure vessel water content – USG		0.5	0.	19
Boiler Flow Rate - GPM	MAX	10	11	12
Boller Flow Rate - GPIVI	MIN	2		
Water Pressure	MAX	DHW 150 psi / Heating 43.5psi		
Trater Freeduce	MIN	DHW 40psi / Heating 8psi		8psi
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%		
Temp Range	Heating Mode	51°F-194°F		
	Domestic Hot Water	105°F-149°F		
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 N0x 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



RMCBH-L125i, RMCBH-L160i & RMCBH-L199i

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



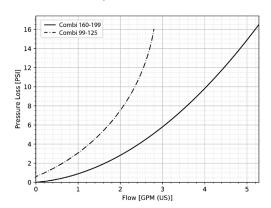








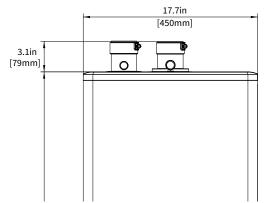
Water heater pressure drop – L-Series RMCBH-L125i, RMCBH-L160i & RMCBH-L199i





Richmond® Encore® L-Series Super High-Efficiency Condensing Combi Boilers

View the boiler head loss - L-Series RMCBH-L125i, RMCBH-L160i & RMCBH-L199i



Specifications

VENTING	MAXIMUM EQUIVALENT LENGTH
Schedule 40 PVC, CPVC or Polypropylene	(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
Polypropylene	
PPs 87-90° Elbow	Allow 8 equivalent feet
Flex PPS	
3" PPs Flex	35' Actual (Equivalent = Actual x 1.4)

²Approximate 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 17.7in [450mm] 10.9in 3.1in [79mm] 32.5in 1.2in [30mm] **FRONT** SIDE **Top View** RMCBH-L160i, RMCBH-L199i BOTTOM VIEW

RMCBH-L125i BOTTOM VIEW

Parts & Accessories



