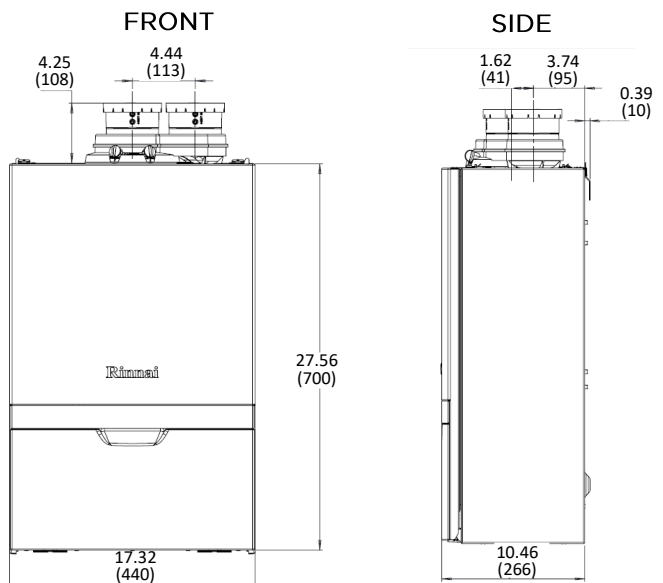


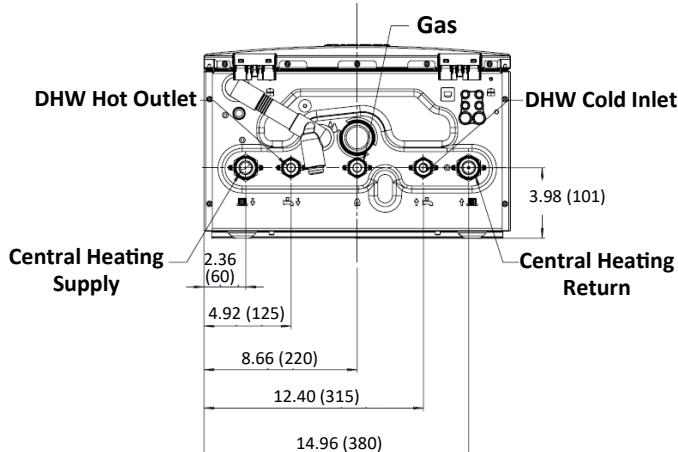


DIMENSIONS

Measurements: in. (mm)



BOTTOM



CONDENSING WALL-MOUNTED, GAS-FIRED COMBI BOILER (CENTRAL HEATING AND DOMESTIC HOT WATER)

Models	M060C, M090C, M120C, M160C
Appliance Type	Wall-Mounted, Gas-Fired Combi Boiler
Installation	Indoor
Gas Types	Natural Gas (or Propane with field conversion)
Standard Features	<ul style="list-style-type: none"> • Factory Installed Modulating Pump • Outdoor Reset Control System with Sensor • Priority DHW Standard • Built-in DHW Plate Heat Exchanger • Modulating Ceramic Burner • Stainless Steel Water Tube Condensing Heat Exchanger • Direct Vent Sealed Combustion • Approved for Room and Closet Installations
Included with Purchase	<ul style="list-style-type: none"> • Condensing Gas Boiler with Integrated Modulating Pump • Liquid Propane Field Conversion Kit • Wall Mounting Bracket • Pressure Relief Valve • Condensate Collector Kit • Outdoor Reset Sensor • Vent Top with Integrated 3 in. (80 mm) PP Adapters • 3 in. (80 mm) PP to 3" PVC Adapter (Qty 2) • 3 in. PVC to 2 in. PVC or 2 in. (60 mm) PP Adapter (Qty 2) • 3 in. X 5 in. Concentric Vent Adapter • NPT Adapters: <ul style="list-style-type: none"> – 1 in. for CH Systems (Qty 2) – 3/4 in. (Qty 3 total) <ul style="list-style-type: none"> ▪ (Qty 2) for DHW Systems ▪ (Qty 1) for Gas Supply Connection • Documentation: Installation and Operation Manual, User Manual, and ISCL (Installation, Service, and Commissioning Log)

Optional Accessories Closely Spaced Tee/Manifold Kit, Flue Gas Temperature Sensor, Condensate Neutralizer, ScaleCutter, ScaleCutter Refill Cartridge, Boiler Toolkit, and Isolation Valve Kit

Venting Options

- Direct Vent (Concentric and Twin Pipe)
- Room Air
- Materials: Polypropylene, Stainless Steel, PVC, CPVC

Maximum Equivalent Vent Lengths

Twin Pipe and Room Air:

Vent Sizes	2 in. PVC and 2 in. (60 mm) PP		3 in. PVC and 3 in. (80 mm) PP	
Boiler Model	M060C	M090C, M120C, M160C	M060C	M090C, M120C, M160C
Vent Lengths	60 ft (18 m)	30 ft (9 m)	150 ft (46 m)	140 ft (43 m)

Concentric:

Vent Sizes	2 in. X 4 in.		3 in. X 5 in.	
Boiler Model	M060C	M090C, M120C, M160C	M060C	M090C, M120C, M160C
Vent Lengths	60 ft (18 m)	30 ft (9 m)	150 ft (46 m)	140 ft (43 m)

45° elbow equivalent to 3 ft (1 m). 90° elbow equivalent to 6 ft (2 m).



CERTIFIED TO ANSI Z21.13 — CSA 4.9

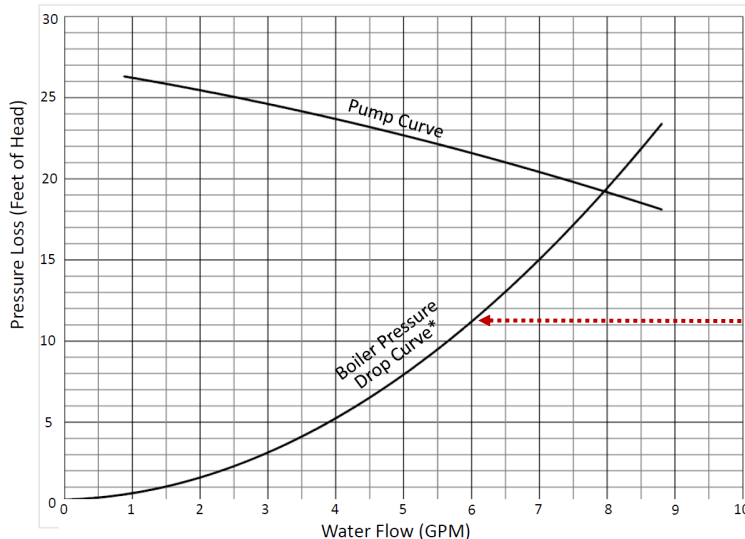
TECHNICAL SPECIFICATIONS

Model		M060C	M090C	M120C	M160C	
Dimensions (w, h, d)	Unit	17 in. x 28 in. x 10 in. (439 mm x 699 mm x 264 mm)				
	Shipping	12 in. x 23 in. x 31.5 in. (305 mm x 585 mm x 800 mm)				
Weight	Unit	77 lb. (35 kg)	84 lb. (38 kg)			
	Shipping	88 lb. (40 kg)	95 lb. (43 kg)			
Ignition System		Direct Electronic Ignition				
Heat Exchanger Material		Stainless Steel				
Heat Exchanger Surface Area		7.3 sq ft	11.8 sq ft			
Gas Consumption (Btu/h)	Min	NG: 17,000 LP: 31,500		NG: 23,500 LP: 73,500		
	Max (CH)	60,000	90,000	120,000	160,000	
	Max (DHW)	103,000	160,000			
Heating Capacity		57 MBH (17 kWh)	84 MBH (25 kWh)	112 MBH (33 kWh)	148 MBH (43 kWh)	
Temperature Setting	CH	(Min - Max) 68° F - 185° F (20° C - 85° C)				
	DHW	(Min - Max) 104° F - 149° F (40° C - 65° C)				
Water Content	CH	1 Gal. (3.8 L)	1.4 Gal. (5.2 L)	1.4 Gal. (5.2 L)	1.4 Gal. (5.2 L)	
	DHW	.05 Gal. (.2 L)	.08 Gal. (.3 L)	.08 Gal. (.3 L)	.08 Gal. (.3 L)	
Water Supply Pressure	CH	Minimum: 19 PSI (131 kPa) Maximum: 45 PSI (310 kPa)				
	DHW	Maximum: 150 PSI (1,034 kPa)				
	PRV	375 MBH (110 kWh)				
	PRV Rating	30 PSI (207 kPa)				
Pump Model		UPER 15-78				
Sound Level		46 dB	54 dB			
Electrical Data	Normal	CH	155 W	177 W	164 W	191 W
		DHW	185 W	191 W	191 W	191 W
	Standby	3.5 W				
	Max Current	1.97 Amps (maximum)				
	Fuse	5 Amps				
Gas Supply Pressure ¹	Natural Gas	3.0 in. - 10.5 in. W.C. (7.5 - 26 mbar)				
	Propane	8.0 in. - 13.5 in. W.C. (19.9 - 33.6 mbar)				
Electric Voltage		AC 120 V, 60 Hz.				
Electric Voltage Controls		24 V				
Circuit Breaker Rating		15 A (Recommended)				
Turndown Ratio (TDR)		3.5:1 / 1.9:1	3.8:1 / 1.2:1	5.1:1 / 1.6:1	6.8:1 / 2.2:1	
Available Pressure Drop at Maximum Input Rate		20.5 ft at 3.2 GPM	16 ft at 4.8 GPM	9.2 ft at 6.3 GPM	2.8 ft at 7.5 GPM	
AFUE		95.0%				
DHW Flow Rate 70°F ΔT ²		2.6 GPM (9.8 LPM)	4.2 GPM (15.9 LPM)			
DHW Minimum Activation		0.4 GPM (1.5 LPM)				
ENERGY STAR® Certification		Yes. Recognized as the Most Efficient of ENERGY STAR® 2018				
Certifications		ANSI Z21.13, CSA 4.9				

¹ The maximum gas supply pressure must not exceed the value specified by the manufacturer.

² Minimum flow may vary slightly depending on the temperature setting and the inlet water temperature. Minimum activation flow is 0.4 GPM (1.5 L/min).

PRESSURE DROP AND WATER FLOW CURVE



* Pressure drop curve applies to all M-Series Condensing Combi Boilers (M060C, M090C, M120C and M160C).

FEATURES

Faster, Easier Installation

- Compact & lightweight design
- Convenient mounting bracket
- NPT threads for connection points
- More flexible venting options
- Simplified parameters for commissioning and setup

Clearances

- Top: 2 in. (51 mm)*
- Bottom: 12 in. (305 mm)
- Front: 6 in. (152 mm)**
- Back: 0 in.
- Sides: 2 in. (51 mm)
- Vent: 0 in.
- * 0 in. from vent components. 6 in. (152 mm) for closet installations.
- ** Clearance for servicing is 24 in. (610 mm) in front of boiler.

Warranty

Residential:

- Heat Exchanger: 12 Years
- All Other Parts/Components: 2 Years
- Labor: 1 Year

Commercial:

- Heat Exchanger: 5 Years
- All Other Parts/Components: 2 Years
- Labor: 1 Year

Important

- If the boiler is to be installed in a system that has multiple zones, a Closely Spaced Tee/Manifold Kit is recommended to be installed.
- If the pressure drop in the loop/system is greater than the available head pressure from the boiler circulator, a Closely Spaced Tee/Manifold Kit must be used.

DHW = Domestic Hot Water
CH = Central Heating
PRV = Pressure Relief Valve