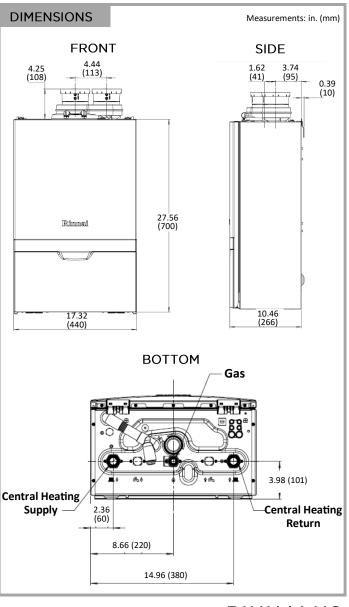


M060S, M090S, M120S, M160S

M-SERIES CONDENSING SOLO BOILER SPECIFICATIONS





CONDENSING WALL-MOUNTED, GAS-FIRED SOLO BOILER (CENTRAL HEATING) Models M060S, M090S, M120S, M160S **Appliance Type** Wall-Mounted, Gas-Fired Solo Boiler Installation Indoor **Gas Types** Natural Gas (or Propane with field conversion) Standard **Factory Installed Modulating Pump** Outdoor Reset Control System with Sensor **Features Modulating Ceramic Burner** Stainless Steel Water Tube Condensing Heat Exchanger **Direct Vent Sealed Combustion** Approved for Room and Closet Installations Condensing Gas Boiler with Integrated Modulating Pump Included with Liquid Propane Field Conversion Kit **Purchase** 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:** 1 in. (Qty 2) 3/4 in. (Qty 1 for Gas Supply Connection) Documentation: Installation and Operation Manual, User Manual, and ISCL (Installation, Service, and Commissioning Log) Closely Spaced Tee/Manifold Kit, Flue Gas Temperature Optional Sensor, Condensate Neutralizer, ScaleCutter, ScaleCutter **Accessories** Refill Cartridge, and Boiler Toolkit Venting • Direct Vent (Concentric and Twin Pipe) **Options** • 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	M060S,	M120S,	M060S,	M120S,
	M090S	M160S	M090S	M160S
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	M060S,	M120S,	M060S,	M120S,
	M090S	M160S	M090S	M160S
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).







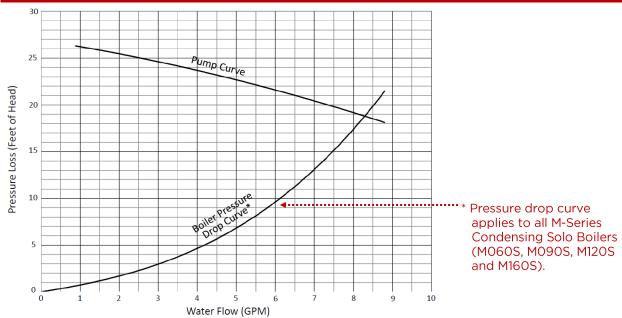


CERTIFIED TO ANSI Z21.13 — CSA 4.9

TECHNICAL SPE	CIFICATIONS					
Model		M060S	M090S	M120S	M160S	
Dimensions	Unit	17 in. x 28 in. x 10 in. (439 mm x 699 mm x 264 mm)				
(w, h, d)	Shipping	12 in. x 23 in. x 31.5 in. (305 mm x 585 mm x 800 mm)				
	Unit	64 lb. (29 kg)		70 lb. (32 kg)		
Weight Shipping		75 lb. (34 kg)		81 lb. (37 kg)		
Ignition System		Direct Electronic Ignition				
Heat Exchanger Material		Stainless Steel				
Heat Exchanger Surface Area		7.3 sq ft 11.8 sq ft			sq ft	
Temperature Setting		(Min - Max) 68° F - 185° F (20° C - 85° C)				
Water Content		1 Gal. (3.8 L)		1.4 Gal. (5.2 L)		
Gas	Min	NG: 17,000 LP: 31,500		NG: 23,500 LP: 73,500		
Consumption	Max	60,000	90,000	120,000	160,000	
Heating Capacity	•	57 MBH (17 kWh)	84 MBH (25 kWh)	112 MBH (33 kWh)	148 MBH (43 kWh	
	СН	Minimum: 14 PSI (97 kPa) Maximum: 45 PSI (310 kPa)				
Water Supply Pressure	PRV	375 MBH (110 kWh)				
11033410	PRV Rating	30 PSI (207 kPa)				
Pump Model		UPER 15-78				
Sound Level		39 dB	42 dB	48 dB	54 dB	
	Normal	155 W	177 W	164 W	191 W	
Floatrical Data	Standby	3.5 W				
Electrical Data	Max Current	1.62 Amps	1.8 Amps	1.67 Amps	1.97 Amps	
	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	5.3:1 / 2.9:1	5.1:1 / 1.6:1	6.8:1 / 2.2:1	
Available Pressure Drop at Maximum Input Rate		21.1 ft at 3.2 GPM	16.9 ft at 4.8 GPM	9.5 ft at 6.3 GPM	4.8 ft at 7.5 GPM	
AFUE		95.0%				
ENERGY STAR® Ce	rtification	Yes				
Certifications		ANSI Z21.13, CSA 4.9				

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





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.

CH = Central Heating PRV = Pressure Relief Valve