



Freedom CM™

Gas-fired High Efficiency, Condensing Boiler



- Exceeds 95% AFUE - ENERGY STAR® Certified
- Three Sizes 70, 90 & 120 MBH
 - Natural Gas or Propane
- Cast Aluminum Mono Block Design
- Fully Modulating Operating Control with Outdoor Reset
- Wall-hung Mounting Configuration
- Easily Installed Polypropylene Concentric Venting System
 - Included with Boiler

Burnham Freedom CM™ 95% High Efficiency

Burnham's Freedom CM™ boilers are high efficiency condensing boilers with AFUE's exceeding 95%. The heart of each Freedom CM boiler is its cast aluminum monoblock heat exchanger that works to help maximize the boiler efficiency. In addition, the Freedom CM offers a sleek, modern jacket design which is configured to be wall mounted or can be floor mounted using the optional, matching pedestal kit.

Freedom CM boilers come in three sizes and are available for either natural gas or propane installations. Each Freedom CM boiler has a fully modulating control system and a variety of sensors that are standard on each boiler. Also an indoor/outdoor reset control comes standard with every Freedom boiler.

A further innovation designed into each Freedom CM boiler is the use of state-of-the-art polypropylene concentric venting. This proven technology is easy to install and is included with every Freedom CM boiler... a feature that is unmatched in the industry.

Easy Access Control Panel

Fully modulating boiler with MCBA control module located inside lower front cover provides access to operating information and troubleshooting for Freedom CM boilers.



MCBA Control Panel
Instruction Guide

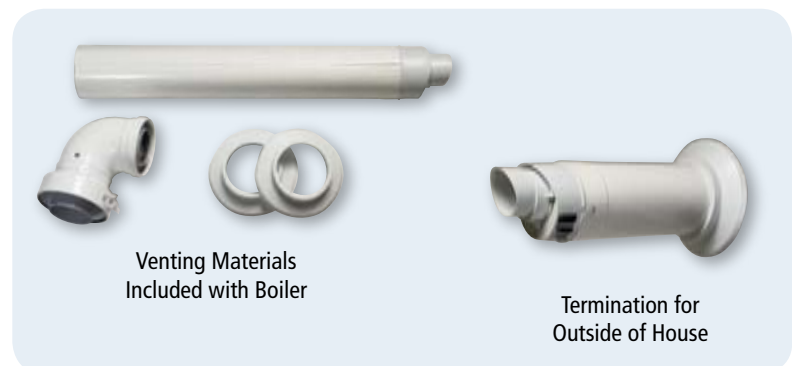


What is a "Condensing" Boiler?

When a condensing boiler is working at its peak efficiency, the water vapor produced in the gas combustion process condenses back into water – hence the name "condensing" boiler. This condensation of exhaust gases releases the latent heat that is given off whenever the vaporization of water takes place. Together these two processes create the high efficiencies associated with Burnham condensing boilers.

Vent Material Included with Freedom CM Boilers

Polypropylene Concentric Venting is easy to install and use on Freedom CM boilers. An elbow, vent pipe, and termination are included with every Freedom CM Boiler and work well for most wall hung applications.



Venting Materials
Included with Boiler

Termination for
Outside of House



Flue Pipe Access
Tapping with
Screw-on Cap

Freedom CM™ Boiler

LWCO installed as standard on each boiler

Polypropylene concentric venting system included with every boiler



Cylindrical stainless steel mesh burner assists in providing full modulation capabilities

Air and fuel are premixed in blower assembly and modulation is controlled by blower speed via MCBA module.

Monoblock cast aluminum heat exchanger

Gas valve and venturi system



Pressure and temperature gauge shows through when panel is closed

MCBA Control module and transformer

Flip down control panel easily exposes installation wiring and control module



Optional matching floor mount base is available for Freedom Boilers



Burnham Alliance SL™

Indirect-fired Water Heaters

For an abundant supply of domestic hot water, be sure to use an Burnham Alliance SL indirect-fired water heater with every boiler application.




The Alliance SL water heaters are designed with an effective hydrastone lining that offers superior corrosion resistance and outstanding performance in a wide variety of water conditions.

Water heaters are available in five sizes and come with a unique 10/2/1 warranty – 10 years on the tank and coil, 2 years labor and 1 year on parts.



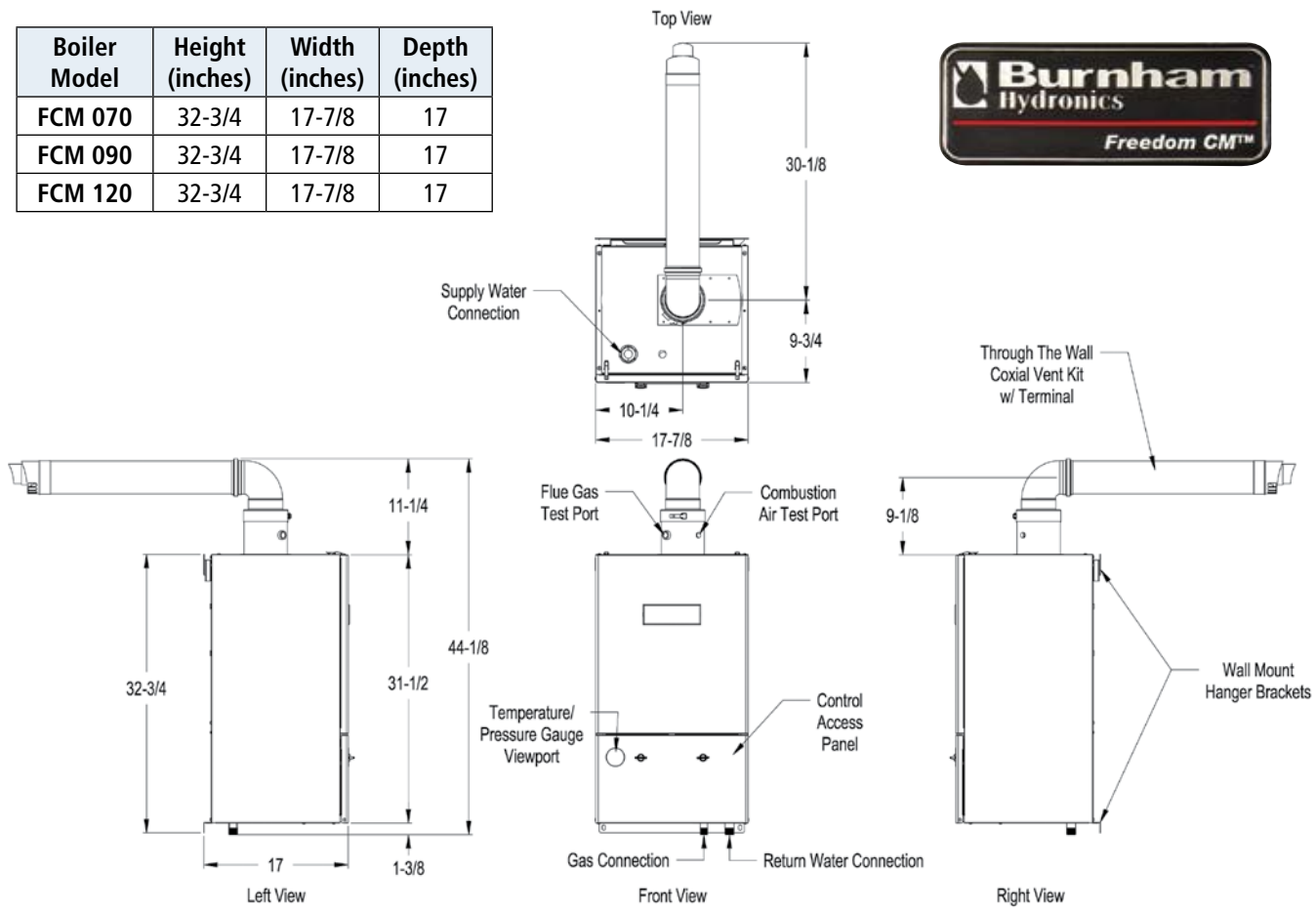
Ratings



Boiler Model	Maximum Input (MBH)	Minimum Input (MBH)	DOE Heating Capacity (MBH)	I=B=R Net Rating (MBH)	 AFUE (%)	Approx. Net Weight (lbs.)	Venting System	Mounting System
FCM 070	70	30	63	55	95.4	102	Concentric Polypropylene (included)	Wall Hung Bracket (included)
FCM 090	90	30	80	70	94.5	102		
FCM 120	120	40	107	93	95.2	110		

Dimensions

Boiler Model	Height (inches)	Width (inches)	Depth (inches)
FCM 070	32-3/4	17-7/8	17
FCM 090	32-3/4	17-7/8	17
FCM 120	32-3/4	17-7/8	17



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