

Heating & Air Conditioning **Amana®**

LASTS AND LASTS AND LASTS.™

Specification Sheet



Cooling Capacity:
18,000 - 60,000 BTUH

LIMITED WARRANTY

- 5-Year—Parts



AsureSM
EXTENDED SERVICE PLAN



MBE/MBR

Modular Blowers

The Amana® brand MBE/MBR modular blower sections are tailor-made for exceptional energy efficiency. These blowers are designed with quality components and assembled with excellent craftsmanship. When matched with our cased coils for upflow, downflow and horizontal applications, these 2-piece blower coils increase both installation and application flexibility.

Quality Design Features. All models include foil-face insulation. The insulation is glued in place and covers the entire blower case; therefore, it reduces operating sound and opportunities for cabinet condensation.

Cabinet Durability and Installation Flexibility.

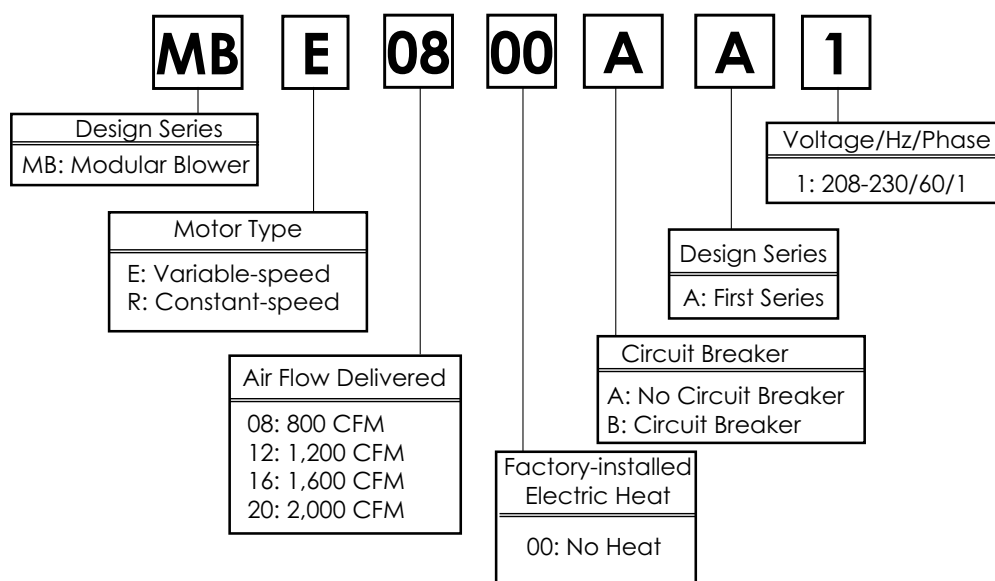
The cabinet is constructed from galvanized steel that is formed and painted to produce one of the best cabinets available on the market today. The two sides and back are made from a single piece of steel to increase rigidity and to make installations easier. Bottom flanges are formed inwardly for additional strength and to provide a good mounting surface for a cased-coil section to form a two-piece blower coil. Connector plates and screws are shipped with the MBE/MBR.

Easy to Service Controls. MBE and MBR blowers use the HKR electric heat kits that are used in single-piece air handlers. The MBR control board includes a fan delay in the cooling mode and is isolated from the air stream.

Variable-speed Motors. MBE models feature the GE ECM motor. This variable-speed motor features quiet ramp-up and ramp-down operation, while improving the overall air distribution in the HVAC system. With input from a field-installed humidity control, the MBE can respond to excess humidity conditions in the cooling mode. ECM motors use less electricity than the constant-speed PSC motors.

Specification Sheet

Nomenclature



MBR/MBE blower cabinets are designed to be used as a two-piece blower and coil combination. MBR/MBE blower sections can be attached to cased evaporator coil. This two piece arrangement allows for a variety of mix-matching possibilities providing greater flexibility.

The MBE blower uses a variable-speed motor that maintains a constant air flow despite duct static. It is approved for applications with cooling coils of up to 0.8 inches W.C. external static pressure and includes a feature that allows air flow to be changed by +10%/-15%.

The MBR/MBE blower cabinets are intended to be used with a cased evaporator coil and a condensing unit or heat pump. The blower section of the cabinet can also be used as an electric furnace. The electric heating elements are field-installed. The MBR/MBE uses HKR electric heat kits.

The MBR/MBE blower cabinets can be positioned for upflow, downflow, horizontal right or horizontal left operation. All units are constructed with foil-face insulation.

The CAPX/CHPX coils rated with the MBR/MBE are equipped with a check thermostatic expansion valve assembly for refrigerant control. The CACF/CAPF/CHPF coils rated with the MBR/MBE are equipped with a check flowrater. The coils are designed for upflow, downflow or horizontal applications, using three-speed, direct-drive motors on the MBR models, and BPM (Brushless Permanent Magnet) or ECM motor on the MBE models.

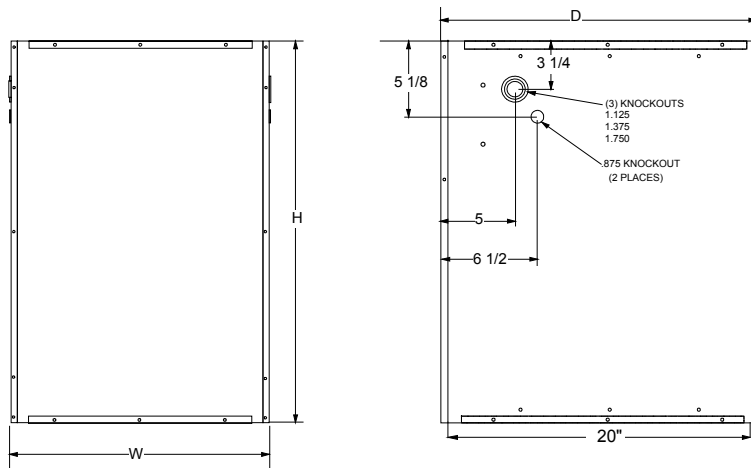
Specifications

Model	Blower Wheel (D x W)	Blower Motor (HP)	Minimum Circuit Ampacity ¹	Maximum Overcurrent Protection ¹	Shipping Weight (pounds)
MBR0800	9" x 6"	1/4	1.9	15	72
MBR1200	9" x 8"	1/3	3.0	15	72
MBE1200	10" x 8"	1/2	3.2	15	72
MBR1600	10" x 8"	1/3	3.8	15	82
MBE1600	10" x 8"	3/4	5.7	15	82
MBR2000	10" x 10"	1/2	4.9	15	94
MBE2000	11" x 10"	3/4	4.4	15	94

1) Minimum Circuit Ampacity and Maximum Overcurrent Protection for blower without supplemental heat installed. Refer to unit nameplate for these specifications with approved accessory heaters installed.

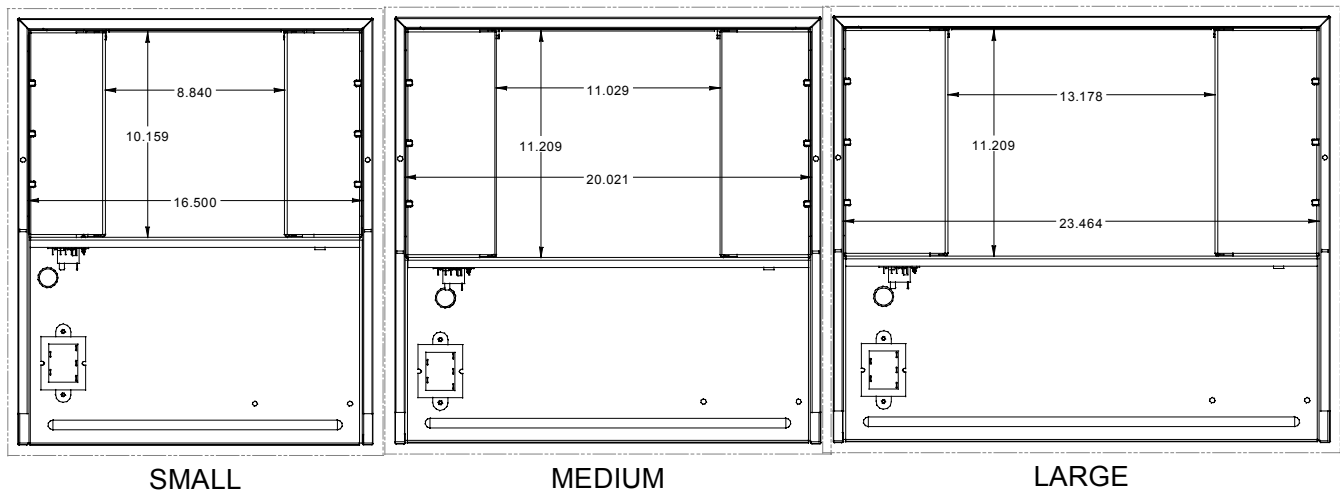
Dimensions

Side and Front View Dimensions



	MBR0800 MBR1200 MBE1200	MBR1600 MBE1600	MBR2000 MBE2000
W	17½"	21"	24½"
H	26"	30"	30"
D	21"	21"	21"

Top View Dimensions



Electric Heater Kit Applications

Blower	Electric Heat Kit									
	HKR-03A	HKR-05(C)A	HKR-06A	HKR-08(C)A	HKR-10(C)A	HKR-15(C)A	HKR-20(C)A	HKR-21(C)A	HKR3-15A	HKR3-20A
MBR0800AA-1	X	X	X	X	X					
MBR1200AA-1	X	X	X	X	X	X	X	X	X	X
MBR1600AA-1	X	X	X	X	X	X	X	X	X	X
MBR2000AA-1	X	X	X	X	X	X	X	X	X	X
MBE1200AA-1				X	X	X				
MBE1600AA-1					X	X				
MBE2000AA-1					X	X	X			

X = Allowable combinations

Shaded areas indicate restricted combinations

Specification Sheet

MBR Blower Performance Specifications

Speed	Static	MBR0800**.* SCFM	MBR1200**.* SCFM	MBR1600**.* SCFM	MBR2000**.* SCFM
High	0.1	1,240	1,500	1,800	2,160
	0.2	1,170	1,460	1,740	2,080
	0.3	1,120	1,360	1,680	1,990
	0.4	1,060	1,280	1,610	1,890
	0.5	980	1,200	1,520	1,790
	0.6	900	1,110	1,430	1,690
Medium	0.1	900	1,380	1,540	1,730
	0.2	850	1,320	1,490	1,670
	0.3	790	1,270	1,450	1,590
	0.4	740	1,200	1,400	1,520
	0.5	680	1,140	1,350	1,420
	0.6	605	1,040	1,280	1,320
Low	0.1	650	1,170	1,130	1,520
	0.2	590	1,130	1,100	1,450
	0.3	540	1,080	1,070	1,360
	0.4	500	1,020	1,030	1,290
	0.5	430	950	990	1,200
	0.6	330	830	930	1,090

External static is for blower @ 230 Volts, it does not include Coil, Air Filter or Electric heaters.

MBE Blower Performance Specifications

Dipswitch Functions

Dipswitch Number	Function
1	Electric Heat
2	
3	N/A
4	Indoor Thermostat
5	Cooling & Heat Pump CFM
6	
7	CFM Trim Adjust
8	

Cooling/Heat Pump Operation

Model	Switch 5	Switch 6	CFM
MBE1200	OFF	OFF	1,200
	ON	OFF	1,000
	OFF	ON	800
	ON	ON	600
MBE1600	OFF	OFF	1,600
	ON	OFF	1,400
	OFF	ON	1,200
	ON	ON	1,000
MBE2000	OFF	OFF	2,000
	ON	OFF	1,800
	OFF	ON	1,600
	ON	ON	1,200

Electric Heat Operation

Model	Switch 1	Switch 2	CFM
MBE1200	OFF	OFF	1,200
	ON	OFF	1,000
	OFF	ON	800
	ON	ON	600
MBE1600	OFF	OFF	1,600
	ON	OFF	1,400
	OFF	ON	1,200
	ON	ON	1,000
MBE2000	OFF	OFF	2,000
	ON	OFF	1,800
	OFF	ON	1,600
	ON	ON	1,200

Thermostat "Fan Only" Mode

During Fan Only operations, the CFM output is 30% of the cooling setting.

CFM Trim Adjust

Minor adjustments can be made through the dip switch combination of 7-8.

CFM	Switch 7	Switch 8
+10%	ON	OFF
-15%	OFF	ON

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