

# MBVC Variable-Speed, ComfortNet<sup>™</sup>-Compatible Modular Blowers

Cooling Capacity 18,000 - 60,000 BTU/h

#### **Standard Features**

- ComfortNet<sup>™</sup> Communications System compatible
- Variable-speed ECM blower motor
- Auto configuration of the airflow and tonnage in communicating mode
- CFM indicator
- Maximum four low-voltage wires required for operation in communicating mode
- Built-in dehumidify feature
- Diagnostic indicator lights
- Storage of six prior fault codes
- Programmable heat strip settings
- Color-coded terminal strip for noncommunicating set-up
- Cooling and heat pump applications
- AHRI Certified; ETL Listed

#### **Cabinet Features**

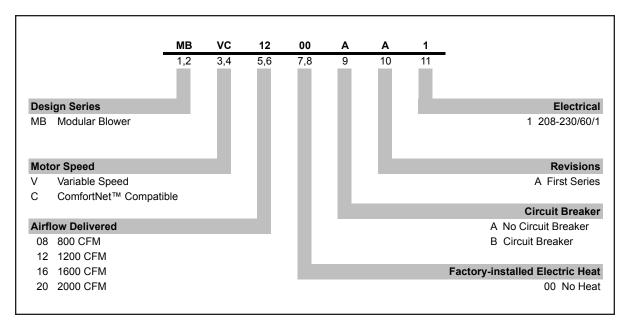
- Painted, galvanized-steel cabinet
- Blower section usable as an electric furnace
- Foil-faced insulation is glued in place and covers entire blower case, reducing sound and cabinet condensation
- Bottom flanges formed inward for additional strength, and to provide mounting surface for cased-coil section





\* Complete warranty details available from your local dealer or at www.amana-hac.com. To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Québec.

# Nomenclature



### **S**PECIFICATIONS

	CFM @ 0.3" ESP	VOITAGE-	VOLTAGE- PHASE MCA* MOP* BLOWER DIMENSIONS DIAMETER WIDTH HP		<b>BLOWER DIMENSIONS</b>		MOTOR	Ship
Model	(HIGH TO LOW)			WEIGHT (LBS)				
MBVC1200AA-1	1,200 to 600	208/230-1	4.3	15	10"	8″	1/2	73
MBVC1600AA-1	1,600 to 1,000	208/230-1	6.3	15	10"	8″	3⁄4	83
MBVC2000AA-1	2,000 to 1,200	208/230-1	5.8	15	11"	10"	3⁄4	95

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

#### HEAT KIT SELECTION

	MBVC1200 AA-1A*	MBVC1600 AA-1A*	MBVC2000 AA-1A*
HKR-03*	Х	Х	Х
HKR-05*/-05C*	Х	Х	Х
HKR-06*	Х	Х	Х
HKR-08*/-08C*	Х	Х	Х
HKR-10*/-10C*	Х	Х	Х
HKR-15C*	Х	Х	Х
HKR-20C*			Х

X Allowable combinations

\* Indicates revision level that may or may not be designated

C Indicates Circuit Breaker option

#### SINGLE POINT KIT \*\*

MODEL	HKR-15C	HKR-20C	HKR-21C
SPW-01	Х	Х	Х

\*\* Must be installed along with any of the above compatible heat kits. This kit will fit any MBVC blower as long as a compatible heat kit is installed in the unit.

#### COOLING / HP AIRFLOW

S1	S2	Speed Tap	MBVC1200 Airflow (SCFM)	MBVC1600 Airflow (SCFM)	MBVC2000 Airflow (SCFM)	
off	off	А	600	1000	1200	
on	off	В	800	1200	1600	
off	on	С	1000	1400	1800	
on	on	D	1200	1600	2000	

COOLING / HP / AUX TRIM			COOLING PROFILE				
S3	S4	Trim Value	S5	S6			
off	off	0	off	off	А		
on	off	10%	on	off	В		
off	on	-10%	off	on	С		
on	on	0	on	on	D		

#### HEATER KIT KW AIRFLOW

S9	S10	S11	Heater KW	MBVC1200 Airflow (SCFM)	MBVC1600 Airflow (SCFM)	MBVC2000 Airflow (SCFM)
off	off	off	21	NA	NA	NA
off	off	on	20	NA	NA	2000
off	on	off	15	1400	1500	1500
off	on	on	10	1000	1000	1200
on	off	off	8	740	1000	1000
on	off	on	6	635	800	800
on	on	off	5	600	800	800
on	on	on	3	600	800	800

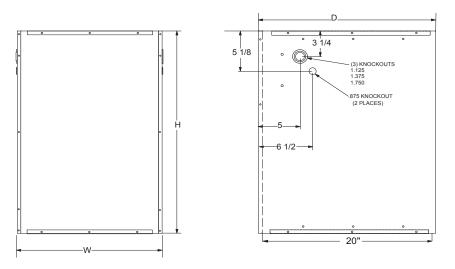
#### MBVC BLOWER PERFORMANCE DATA — DIPSWITCH SUMMARY

DIPSWITCH #	FUNCTION	DEFAULT SETTING
S1 - S2*	Cooling / HP Airflow A/B/C/D	Airflow D
S3 - S4*	Cooling / HP / Aux Trim (-10%, 0, +10%)	No Trim
S5 - S6*	Cooling Profile A,B,C,D	Profile 1
S7*	Dehum (on/off)	Off
S8	Unused	On
S9 - S11	Heater Kit Kw	Off/Off/Off

\* Valid only if the system is wired in legacy mode. If system is wired in the 4-wire communicating mode, these functions are selected via the user menu in the CTK01AA T-STAT.

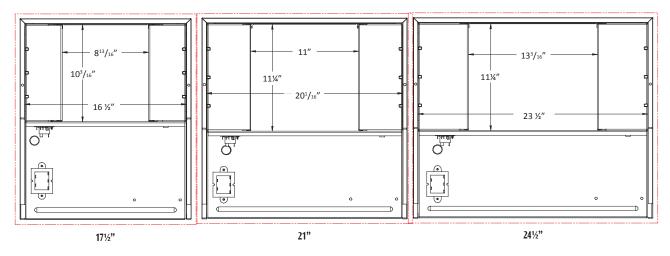
### DIMENSIONS

### SIDE AND FRONT VIEWS

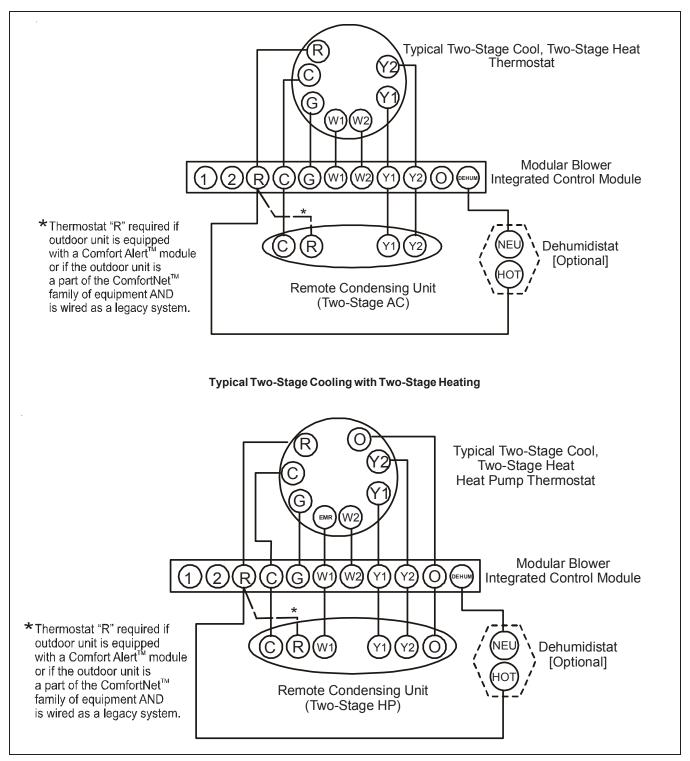


Monsi	DIMENSIONS					
MODEL	WIDTH	Depth	Height			
MBVC1200AA-1	17½"	21″	26″			
MBVC1600AA-1	21″	21″	30″			
MBVC2000AA-1	24½"	21″	30"			

### TOP VIEW



### WIRING DIAGRAMS



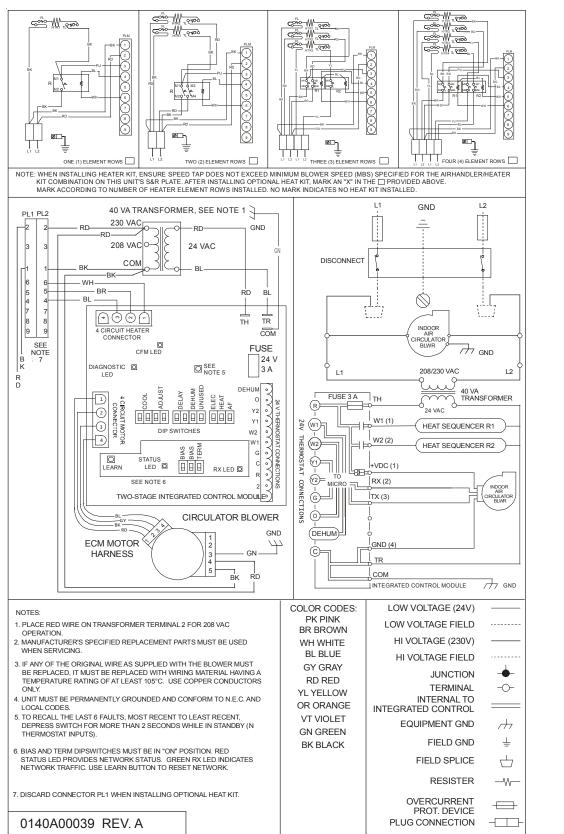
TYPCIAL TWO-STAGE HEAT PUMP HEATING AND AUXILIARY/EMERGENCY HEATING

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.

 $\mathbb{A}$ 

 WARNING
 High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

## WIRING DIAGRAMS (CONT.)





N

power death.

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.

Product Specifications				
Notes				

8

50 9001

Amana\* is a trademark of Maytag Corporation or its related companies and used under license to Goodman Company, L.P. All rights reserved. Our continuing commitment to quality products may mean a change in specifications without notice. © 2010 • Goodman Company, L.P. • Houston, Texas • Printed in the USA.

SS-AMBVC

۲