

MV Modular BLOWER CABINET



Representative photo only, some models may vary in appearance.

1 1/2 THRU 5 TONS SPLIT SYSTEM MV Series - Variable Speed

FEATURES

- Air Conditioning or Heat Pump ready
- Prepainted galvanized steel cabinet
- Internally lined with 1/2" Tuf-Skin II insulation
- Electronic control board with quick connect receptacle for electric heat*
- Direct drive slide-out blower assembly
- Variable Speed blower motor with separate controller for easy servicing
- Adjustable Blower time delay
- Efficient and Quiet Fan Only setting 60% Airflow
- Dehumidification Speed 80% Airflow
- Accepts accessory slip in electric heaters
- Accepts accessory two stage outdoor thermostats
- Flush Matches full line of Cased Coils w/ TXV
- Upflow, downflow and horizontal right or left applications

Accessory Heater

- UL listed for sale in U.S.A. and Canada
- Easy to install with simple plug in connection to Air Handler
- Designed for 208/240 Volt
- Breakerless 5, 7.5 and 10 nominal kW models available
- 5, 7.5, 10, 15, 20, 25 and 30 nominal kW models available with Circuit Breakers
- Auto reset high temperature limits

* Requires No Heat Kit if installed without electric heat



Rated in accordance with ARI Standard 210. Certification applies only when used with proper components as listed with ARI.



International Comfort Products, LLC
651 Heil-Quaker Ave.
Lewisburg, Tennessee 37091

RESIDENTIAL AND COMMERCIAL SYSTEMS • SPLIT SYSTEMS • PACKAGED AIR CONDITIONERS •
COMBINATION GAS / ELECTRIC UNITS • HEAT PUMPS • AIR HANDLERS • MANUFACTURED HOME AIR
CONDITIONERS • GAS, OIL AND ELECTRIC FURNACES

UNIT SPECIFICATIONS - BLOWER COILS

Model Number		MV08B1500A	MV12F1900A	MV16J2200A	MV20N2600A
Application		Upflow / Horizontal			
Electrical	Volts-Phase-Hz.	208 / 230 - 1 - 60			
Data **	Minimum Circuit Ampacity*	3.8	3.8	6.9	6.9
	Time Delay Fuse (Amps)	15			
	Maximum Fuse or Breaker Size (Amps)	15			
Blower	Size	DD10 - 7	DD10 - 8	DD10 - 9	DD10 - 9
Data	Horsepower - Speed	1/2 - VAR	1/2 - VAR	1 - VAR	1 - VAR
	Full Load Rated Amps	3.3	3.3	6.6	6.6
Transformer		40 VA			
Weight	Shipping / Net (Lbs.)	54 / 50	54 / 50	75 / 70	85 / 80

* Disregard if electric heat is added. Refer to Electric Heat table.

UNIT SPECIFICATIONS - Using No Heat Kit

Model	Supply Circuit			Supply Circuit No.	Nominal Motor HP	Maximum Motor AMPS.	Total AMPS.	Branch Circuit Ampacity*	Maximum Overcurrent Protective Device (AMPS.)	Recommended				
										Supply Wire 75 ° C. Copper			Ground Wire	
	Volts	Phase	Hertz							No.	Size	Max. Length (Ft)	No.	Size
MV08 - 12	240	1	60	Single	1/2	3.3	3.3	3.8	15	2	14	104	1	14
	208	1	60	Single		3.3	3.3	3.8	15	2	14	90	1	14
MV16 - 20	240	1	60	Single	1	6.6	6.6	6.9	15	2	14	104	1	14
	208	1	60	Single		6.6	6.6	6.9	15	2	14	90	1	14

* Based on maximum ampacity allowed by Magellan control program.

ACCESSORIES

Model	Description	Use With
AMFK05AHA* AMFK05AHB	5 KW Single Phase	2 - 5 Ton
AMFK07AHA* AMFK07AHB	7 1/2 KW Single Phase	2 - 5 Ton
AMFK10AHA* AMFK10AHB	10 KW Single Phase	2 - 5 Ton
AMFK14AHB	15 KW Single Phase	2 - 5 Ton
AMFK20AHB	20 KW Single Phase	3 - 5 Ton
AMFK25AHB	25 KW Single Phase	4 - 5 Ton
AMFK30AHB	30 KW Single Phase	4 - 5 Ton
AMF019DFA	Downflow Kit (Subbase)	MV12
AMF022DFA	Downflow Kit (Subbase)	MV16
AMF026DFA	Downflow Kit (Subbase)	MV20

* AHA Models are Non-Breaker models

ELECTRICAL HEATER DATA TABLE - Single Phase									
Model	Wattage	Volts	Amperes	Phase	Frequency	Wiring	Notes	Comments	Location
EH-1000	1000	240	4.2	1	60	1/2"			
EH-2000	2000	240	8.3	1	60	3/4"			
EH-3000	3000	240	12.5	1	60	1"			
EH-4000	4000	240	16.7	1	60	1 1/4"			
EH-5000	5000	240	20.8	1	60	1 1/2"			
EH-6000	6000	240	25.0	1	60	2"			
EH-7000	7000	240	29.2	1	60	2 1/4"			
EH-8000	8000	240	33.3	1	60	2 1/2"			
EH-9000	9000	240	37.5	1	60	3"			

Heater Model	Supply Voltage	Nomi- Heating BTUH	Heat- KW	KW Per Element	Supply Circuit No.	Heater KW Per Circuit	Heater AMPS.	Maxi- Motor AMPS.	Total AMP	Branch Circuit Ampacity	Maximum Overcurrent Protective Device (AMPS.)	Recommended				
												Supply Wire 75 ° C. Copper			Ground Wire	
												No.	Size	Max. Length (Ft)		
AMFK05AH	240	16,832	4.8	4.8	Single	4.8	20.0	6.0	26.0	32.5	35	2	10	61	1	10
	208	12,287	3.6	3.6	Single	3.6	17.3	6.0	23.3	29.2	30	2	10	59	1	10
AMFK07AH	240	24573	7.2	3.6	Single	7.2	30.0	6.0	36.0	45.0	45	2	8	70	1	10
	208	18430	5.4	2.7	Single	5.4	26.0	6.0	32.0	40.0	40	2	8	68	1	10
AMFK10AH	240	32,765	9.6	4.8	Single	9.6	40.0	6.0	46.0	57.5	60	2	6	85	1	10
	208	24,574	7.2	3.6	Single	7.2	34.7	6.0	40.7	50.8	60	2	6	83	1	10
AMFK14AH	240	49,147	14.4	4.8	Single	14.4	60.0	6.0	66.0	82.5	90	2	4	94	1	8
					Mult. 1	9.6	40.0	6.0	46.0	57.5	60	2	6	50	1	10
					Mult. 2	4.8	20.0	0.0	20.0	25.0	25	2	12		1	10
	208	36,860	10.8	3.6	Single	10.8	52.0	6.0	58.0	72.5	80	2	4	93	1	8
					Mult. 1	7.2	34.7	6.0	40.7	50.8	60	2	6	50	1	10
Mult. 2	3.6	17.3	0.0	17.3	21.7	25	2	12		1	10					
AMFK20AH	240	65,530	19.2	4.8	Single	19.2	80.0	6.0	86.0	107.5	110	2	2	115	1	6
					Mult. 1	9.6	40.0	6.0	46.0	57.5	60	2	6	63	1	10
					Mult. 2	9.6	40.0	0.0	40.0	50.0	50	2	8		1	10
	208	49,147	14.4	3.6	Single	14.4	69.3	6.0	75.3	94.2	100	2	3	90	1	8
					Mult. 1	7.2	34.7	6.0	40.7	50.8	60	2	6	63	1	10
Mult. 2	7.2	34.7	0.0	34.7	43.3	45	2	8		1	10					
AMFK25AH	240	81912	24.0	4.8	Single	24.0	100.0	6.0	106.0	132.5	150	2	1 / 0	148	1	6
					Mult. 1	9.6	40.0	6.0	46.0	57.5	60	2	6	50	1	10
					Mult. 2	9.6	40.0	0.0	40.0	50.0	50	2	8		1	10
					Mult. 3	4.8	20.0	0.0	20.0	25.0	25	2	12		1	10
	208	61,434	18.0	3.6	Single	18.0	75.1	6.0	81.1	101.4	110	2	2	106	1	6
					Mult. 1	7.2	34.7	6.0	40.7	50.8	60	2	6	50	1	10
					Mult. 2	7.2	34.7	0.0	34.7	43.3	45	2	8		1	10
Mult. 3	3.6	17.3	0.0	17.3	21.7	25	2	12		1	10					
AMFK30AH	240	98,294	28.8	4.8	Single	28.8	120.0	6.0	126.0	157.5	175	2	2 / 0	158	1	6
					Mult. 1	9.6	40.0	6.0	46.0	57.5	60	2	6	63	1	10
					Mult. 2	9.6	40.0	0.0	40.0	50.0	50	2	8		1	10
					Mult. 3	9.6	40.0	0.0	40.0	50.0	50	2	8		1	10
	208	73,721	21.6	3.6	Single	21.6	90.1	6.0	96.1	120.2	125	2	1	112	1	6
					Mult. 1	7.2	34.7	6.0	40.7	50.8	60	2	6	63	1	10
					Mult. 2	7.2	34.7	0.0	34.7	43.3	45	2	8		1	10
Mult. 3	7.2	34.7	0.0	34.7	43.3	45	2	8		1	10					

MODEL NUMBER IDENTIFICATION ACCESSORY MODEL GUIDE

ACCESSORY MODEL GUIDE

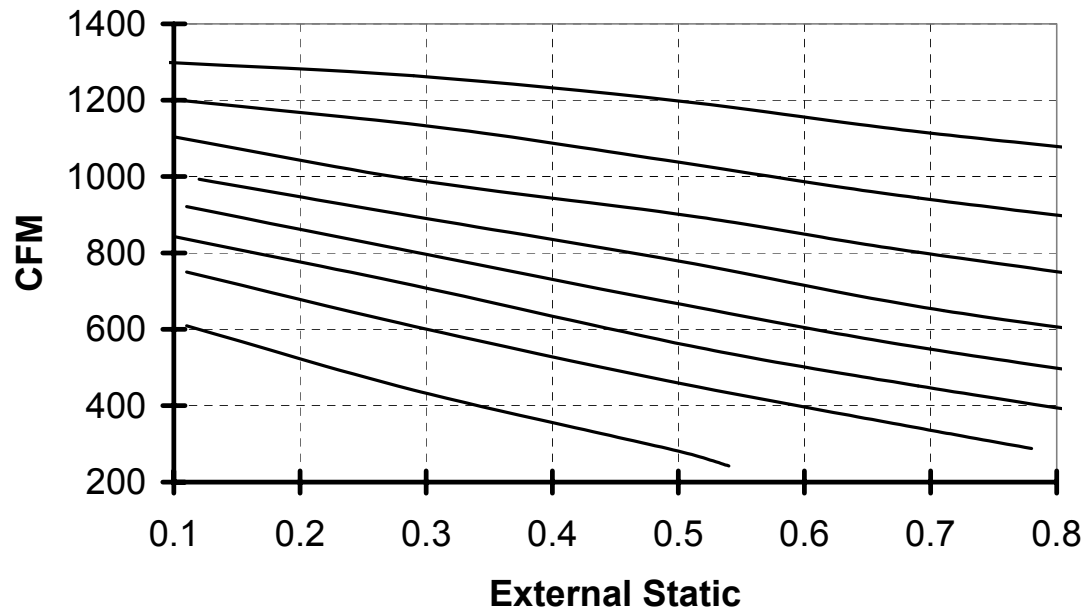
M	V	12	F19	00	A		M	F	001	DP	A
PRODUCT FAMILY					SALES CODE			PRODUCT GROUP			SALES CODE
MV = MODULAR VARIABLE SPEED BLOWER								A = Accessories			PRODUCT IDENTIFIER
					FIELD INSTALLED HEATERS			PRODUCT TYPE			PRODUCT IDENTIFIER NUMBER
NOMINAL CFM RANGE								C = Cooling H = Heating X = Special			
08 = 800								M = Multi Use (Heating and / or Cooling)			SERIES
12 = 1200											
16 = 1600					COIL WIDTH MATCH						
20 = 2000											

ACCESSORY PRODUCT IDENTIFIER ASSIGNMENT

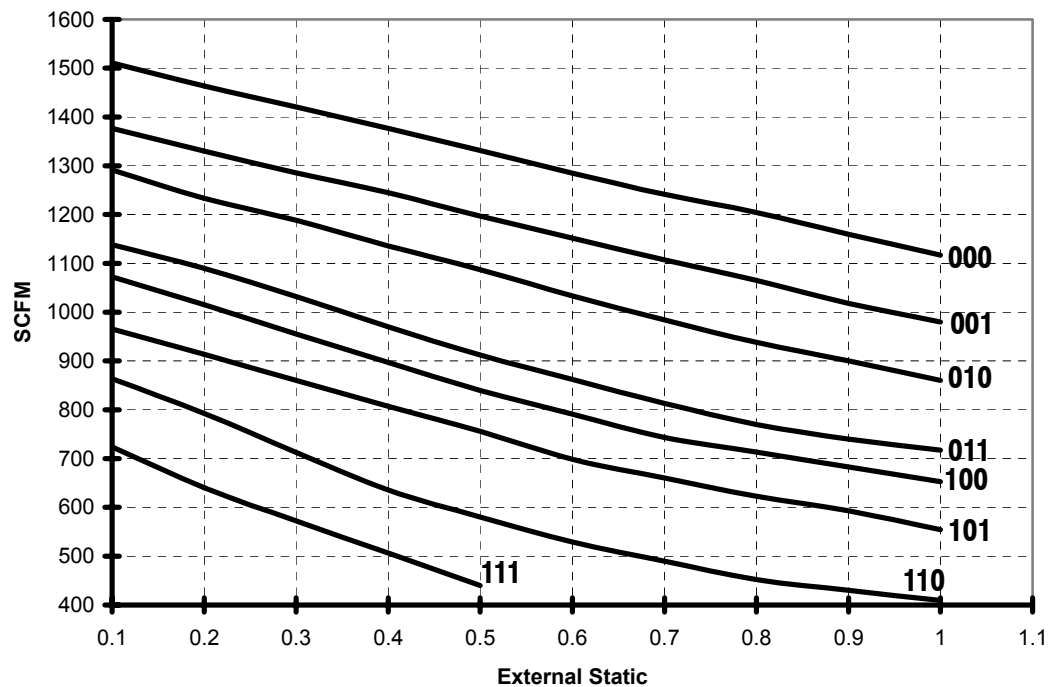
AH - Auxiliary Heater	DP - Drain Pan Kit
OT - Outdoor Thermostat	
WF - Washable Filter	NH - No Heat Kit
SP - Single Point Wiring Kit	TK - Thermostatic Expansion Valve

Dip Switch Settings - 000 Highest Speed 111 Lowest Speed

MV08B1500A

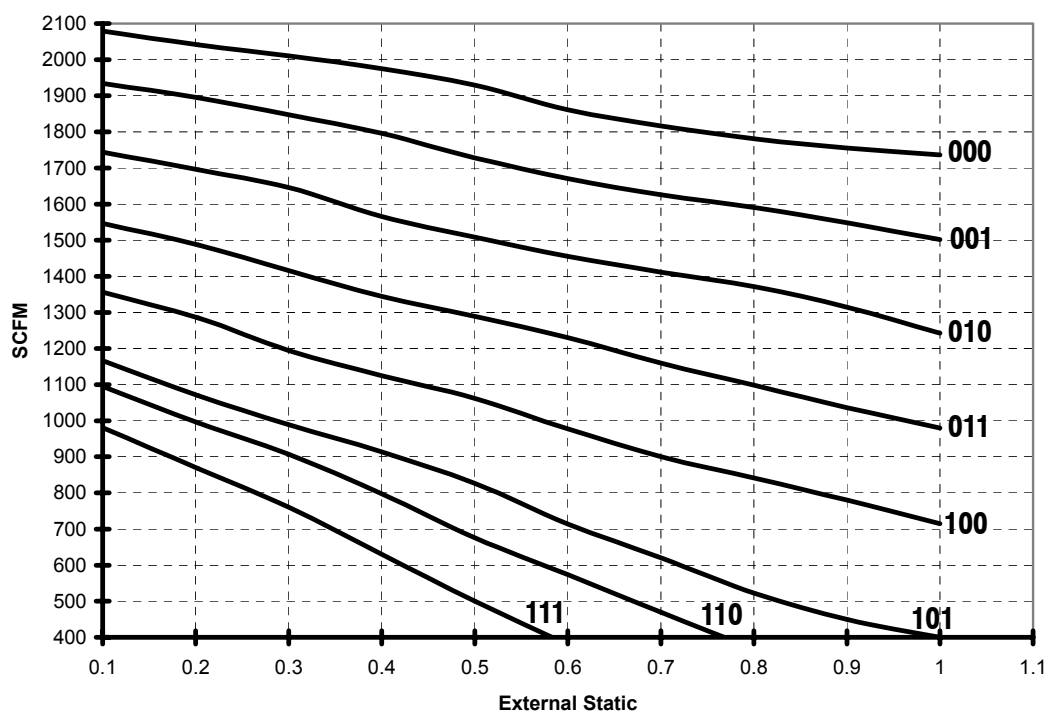


MV12F1900 Airflow

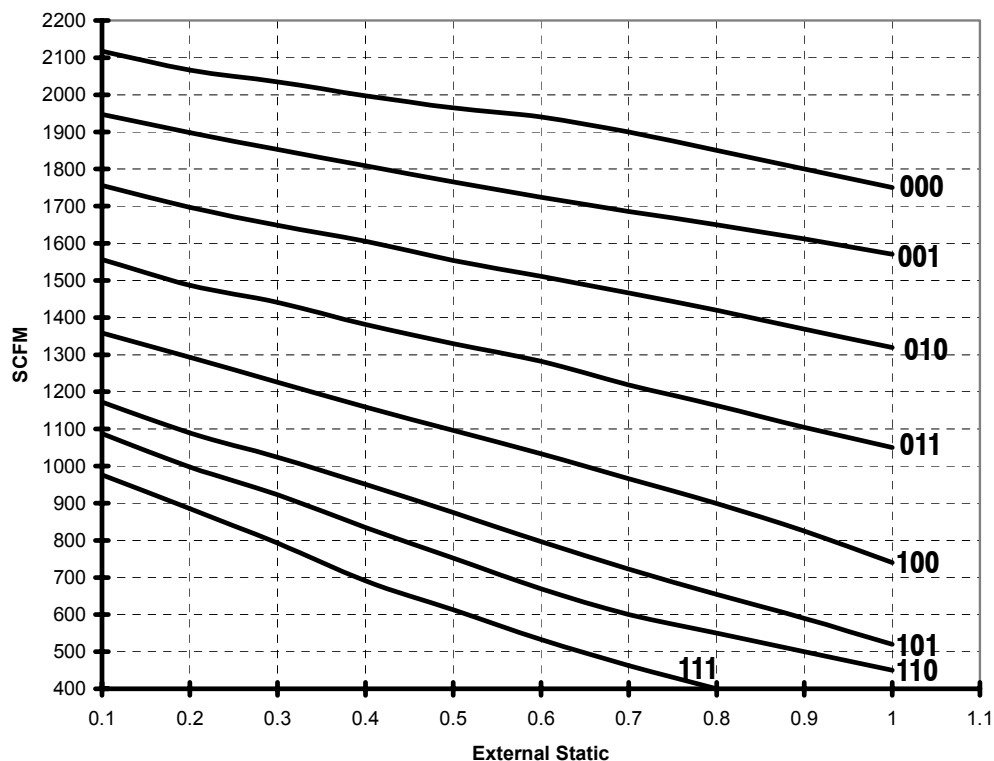


Dip Switch Settings - 000 Highest Speed 111 Lowest Speed

MV16J2200 Airflow



MV20N2600 Airflow



HEATER STATIC TABLE

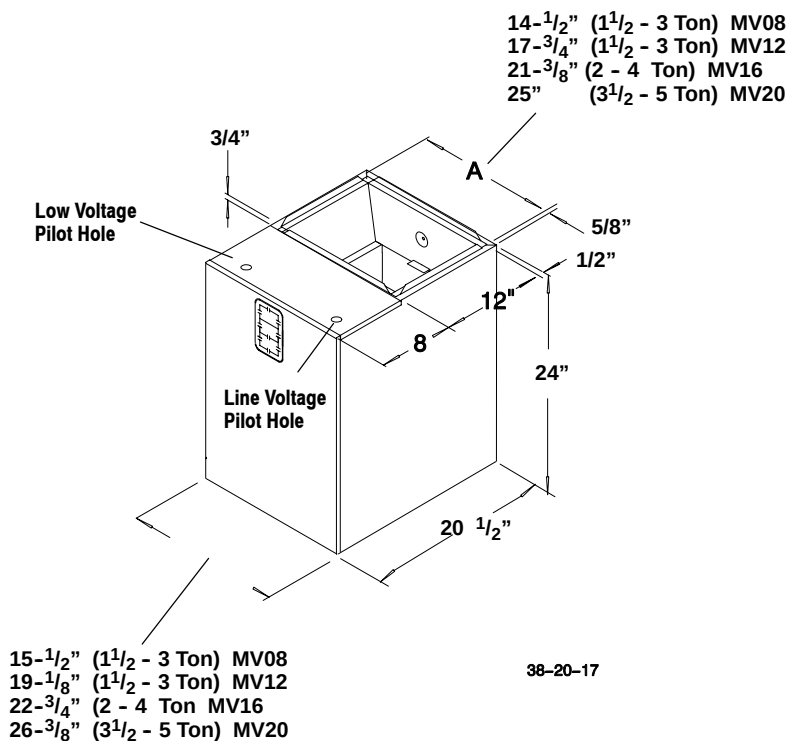
CFM	HEATER KW / STATIC DROP						
	5	7.5	10	15	20	25	30
600	.01	.01	.01	.01	/	/	/
800	.01	.01	.01	.01			
1000	.01	.01	.01	.01	.02	/	/
1100	.01	.01	.01	.02			
1200	.01	.01	.01	.02	.02	/	/
1300	.01	.02	.02	.02	.02		
1400	.01	.02	.02	.02	.03	.03	/
1500	.01	.02	.02	.02	.03		
1600	.01	.02	.02	.03	.03	.04	.04
1700	.01	.02	.02	.03	.03		
1800	.01	.02	.02	.03	.04	.04	.05
1900	.01	.02	.02	.03	.04	.05	.06
2000	.01	.02	.02	.03	.04	.05	.06
DO NOT OPERATE IN THIS AREA CFM / KW LIMIT EXCEEDED							

Deduct heater static shown in heater static table.

HEATER STAGING

HEATER MODEL	VOLTAGE	TOTAL HEAT		1st STAGE (W1)		2nd STAGE (W2)	
		208V	240V	208V	240V	208V	240V
AMFK05AH	208-240/1/60	3.6	4.8	3.6	4.8	-	-
AMFK07AH	208-240/1/60	5.4	7.2	2.7	3.6	2.7	3.6
AMFK10AH	208-240/1/60	7.2	9.6	3.6	4.8	3.6	4.8
AMFK14AH	208-240/1/60	10.8	14.4	7.2	9.6	3.6	4.8
AMFK20AH	208-240/1/60	14.4	19.2	7.2	9.6	7.2	9.6
AMFK25AH	208-240/1/60	18.0	24.0	7.2	9.6	10.8	14.4
AMFK30AH	208-240/1/60	21.6	28.8	7.2	9.6	14.4	19.2

DIMENSIONS



Bottom Return Air Opening

14-3/8" x 20"	MV08
18" x 20"	MV12
21-5/8" x 20"	MV16
25-1/4" x 20"	MV20

CLEARANCES

NO HEATERS

All Sides	0"
From Supply Duct	0"
Recommended Service From Front (Service for blower, filter if installed)	20"

WITH HEATERS

All Sides	0"
From First Three Feet of Supply Duct to Combustibles	1"
From Duct after Three Feet	0"
Recommended Service From Front (Service for blower, filter, heaters if installed)	20"