

TECHNICAL SPECIFICATIONS

MB6(B,E,V)M Series

Modular Indoor Blower 13+ SEER Residential System

18,000 - 60,000 Btuh
(Heat Pump & Air Conditioner)

The MB6 Series Modular Indoor Blower offers exceptional flexibility for space restricted applications. Match the MB6 with our C6 cased coils to create upflow, downflow, and horizontal two-piece air handlers.



WARRANTY

- This product carries a 5-year all parts warranty. When installed with a matched outdoor unit, the air handler will carry the outdoor system warranty. See current warranty document or visit our consumer web site for warranty details.

FEATURES and BENEFITS

- **Durable, Attractive Cabinet:** Designed using galvanized steel. The door is also galvanized steel, with a polyester urethane finish. The 950 hour salt spray finish resists corrosion 50% better than comparable units. The plastic drain pan is corrosion-resistant.
- **Multi-poised:** Can be used in horizontal, upflow, downflow and vertical applications.
- **Multi-speed:** Gives flexibility of installation.
- **Ease-of-Service:** Plug-in wire connections and modularity make the air handler easy to service.
- **Plug-in Heater Kits:** Available in 5kw - 20kw
- **Circuit Board:** Incorporating blower time delay relay, low voltage terminal strip, and heat-strip sequencing.
- **Air Handler Control Board:** Controls time-sequencing of heat stages with field-selectable sequence timing.
- **Breaker Accessibility:** Breaker accessible from front of unit when heater is applied.
- **No Fasteners on Sides:** Smooth surfaces for ease of installation.
- **Cabinet Insulation:** 1/2" insulation contributes to quiet operation and prevents cabinet sweating in difficult applications.

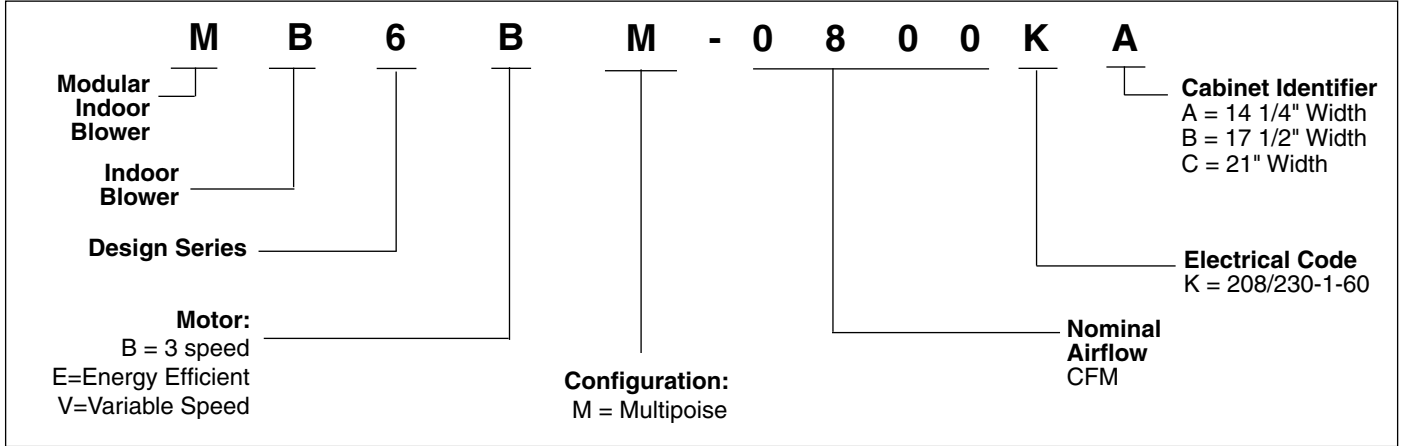
Additional MB6EM Features:

- **Increased Efficiencies:** Air conditioning and heat pump efficiencies up to 15 SEER and 9.0 HSPF.
- **X-13 Energy Efficient ECM Motor:** Advanced technology allows for 5 selected airflows to match any application.
- **Quiet Blower Operation:** Extra quiet and smooth blower on and off cycles.

Additional MB6VM Features:

- **Increased Efficiencies:** Air conditioning and heat pump efficiencies up to 16 SEER and 9.0 HSPF.
- **ECM Variable Speed Motor:** Advanced technology allows for 12 selected cooling airflows and 4 heating airflows to match any application.
- **Quiet Blower Operation:** Extra quiet and smooth blower on and off cycles.
- **Constant Airflow:** Motor automatically adjusts to different static loads.
- **Field selectable delay profiles:** Increase efficiency and comfort.
- **Reduced air stratification:** This results in improved air quality by optimizing humidity removal and filtration capabilities.

MODEL IDENTIFICATION CODE



ELECTRICAL DATA

Model Number H6HK-	Voltage	KW	Standard Air Handler (A & B size)								Energy Efficient & Std Air Handler (C size)							
			Min. Circuit Ampacity				Max. Over-Current Protection				Min. Circuit Ampacity				Max. Over-Current Protection			
			Circuit A	Circuit B	Circuit C	Single Circuit	Circuit A	Circuit B	Circuit C	Single Circuit	Circuit A	Circuit B	Circuit C	Single Circuit	Circuit A	Circuit B	Circuit C	Single Circuit
005H-XX	240	4.8	-	-	-	30	-	-	-	30	-	-	-	34	-	-	-	40
008H-XX	240	7.5	-	-	-	45	-	-	-	50	-	-	-	48	-	-	-	50
010H-XX	240	9.6	-	-	-	55	-	-	-	60	-	-	-	59	-	-	-	60
015H-XX	240	14.4	55	25	-	80	60	30	-	90	59	25	-	83	60	30	-	90
020H-XX	240	19.2	55	50	-	105	60	60	-	125	59	50	-	109	60	60	-	125
005H-XX	208	3.6	-	-	-	27	-	-	-	30	-	-	-	30	-	-	-	40
008H-XX	208	5.6	-	-	-	39	-	-	-	40	-	-	-	42	-	-	-	50
010H-XX	208	7.2	-	-	-	48	-	-	-	50	-	-	-	52	-	-	-	60
015H-XX	208	10.8	48	21	-	70	50	25	-	80	52	22	-	73	60	25	-	80
020H-XX	208	14.4	48	43	-	92	50	50	-	100	52	43	-	95	60	50	-	100
009Q-XX	240	9.0	-	-	-	32	-	-	-	40	-	-	-	36	-	-	-	40
015Q-XX	240	14.4	-	-	-	48	-	-	-	50	-	-	-	52	-	-	-	60
009Q-XX	208	6.8	-	-	-	29	-	-	-	30	-	-	-	32	-	-	-	40
015Q-XX	208	10.8	-	-	-	43	-	-	-	50	-	-	-	46	-	-	-	50

ACCESSORIES

Accessory Kit Description	Cabinet Size			Order Number
	A	B	C	
Single circuit adaptor for 2 circuit breakers	X	X	X	913874

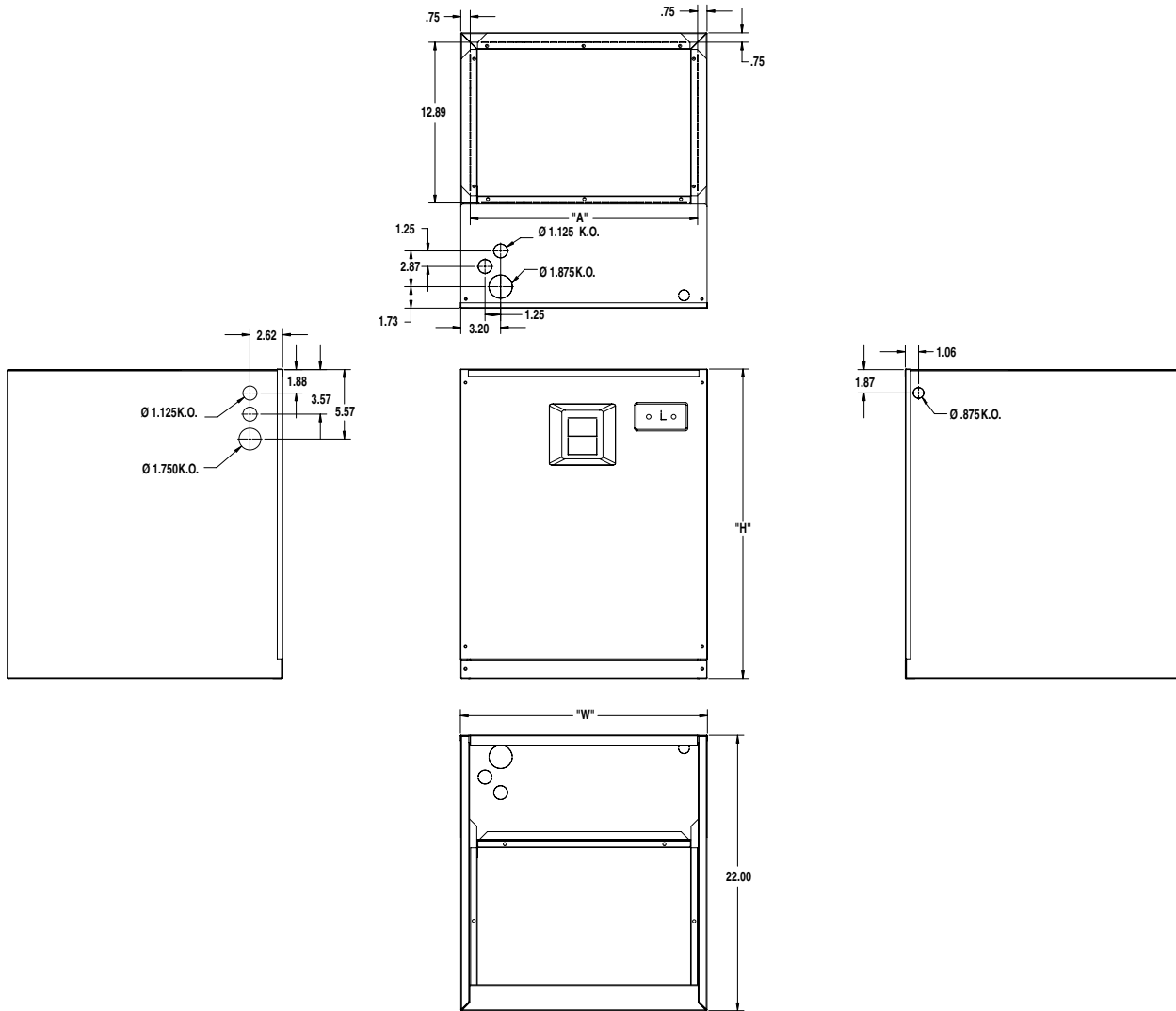
240V Single-Phase Heater Kit Application

Nominal KW	Matched Units					Order Number	
	*800-A	*1200-A	*1200/1600-B	*1600-C	*2000-C	With Circuit Breakers	Without Circuit Breakers
5	X	X	X	X	X	904407	904406
8	X	X	X	X	X	904409	904408
10	X	X	X	X	X	904412	904411
15	n/a	X	X	X	X	904414	n/a
20	n/a	n/a	X	X	X	904416	n/a

240V Three-Phase Heater Kit Application

Nominal KW	Matched Units					Order Number	
	*800-A	*1200-A	*1200/1600-B	*1600-C	*2000-C	With Circuit Breakers	Without Circuit Breakers
9	X	X	X	X	X	904410	n/a
15	n/a	X	X	X	X	904415	n/a

DIMENSIONS



SPECIFICATIONS

Model Number MB6-	BM-0800-A	BM-1200-A	BM-1200-B	BM-1600-C	BM-2000-C	EM-1200-A	EM-1600-B	EM-2000-C	VM-1200-A	VM-1600-B	VM-2000-C
Nominal cooling capacity - BTUh ¹	24000	36000	36000	48000	60000	36000	48000	60000	36000	48000	60000
Maximum Available Auxiliary Heat	10	15	20	20	20	15	20	20	15	20	20
Nominal Blower Size (Dia. x Width)	10 x 6	10 x 6	10 x 8	10 x 10	11 x 10	10 x 6	11 x 8	11 x 10	10 x 6	11 x 8	11 x 10
Motor Hp-speeds-type	1/5-3-PSC	1/2-3-PSC	1/3-3-PSC	1/2-3-PSC	3/4-3-PSC	1/2-X13	1/2-X13	3/4-X13	1/2-VS	1/2-VS	3/4-VS
Approximate Shipping Weight, lbs	50	50	60	73	73	50	60	73	50	60	73
Height, "H", in.	24-3/4	24-3/4	24-3/4	27-1/2	27-1/2	24-3/4	24-3/4	27-1/2	24-3/4	24-3/4	27-1/2
Width, "W", in.	14-1/4	14-1/4	17-1/2	21	21	14-1/4	17-1/2	21	14-1/4	17-1/2	21
Supply Air Outlet Dimension, in.	12-7/8x12-3/4	12-7/8x12-3/4	12-7/8x12-3/4	12-7/8x18-1/4	12-7/8 x18-1/4	12-7/8 x12-3/4	12-7/8x12-3/4	12-7/8x18-1/4	12-7/8x12-3/4	12-7/8x12-3/4	12-7/8x18-1/4

¹ See current AHRI Directory for certified combinations and ratings.

MB6BM BLOWER PERFORMANCE DATA

		Dry Coil ESP	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80
0800 A-Cabinet	Low		685	645	605	565	515	465	405	345
	<i>Corrected ESP¹</i>			0.07	0.19	0.30	0.42	0.53	0.65	0.76
	Med		860	825	780	735	680	625	565	500
	<i>Corrected ESP¹</i>				0.11	0.23	0.36	0.48	0.60	0.72
	High		1070	1025	975	920	860	800	730	660
	<i>Corrected ESP¹</i>					0.14	0.27	0.40	0.53	0.67
		Dry Coil ESP	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80
1200 A-Cabinet	Low		850	825	795	755	705	645	580	510
	<i>Corrected ESP¹</i>			0.04	0.15	0.27	0.38	0.50	0.62	0.74
	Med		1120	1085	1045	995	940	875	800	715
	<i>Corrected ESP¹</i>				0.04	0.17	0.29	0.42	0.55	0.68
	High		1275	1235	1185	1130	1070	1005	935	860
	<i>Corrected ESP¹</i>					0.10	0.23	0.36	0.49	0.63
		Dry Coil ESP	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80
1200 B-Cabinet	Low		995	955	910	845	780	705	610	530
	<i>Corrected ESP¹</i>			0.08	0.19	0.31	0.42	0.54	0.65	0.76
	Med		1335	1290	1235	1175	1100	1015	925	805
	<i>Corrected ESP¹</i>				0.10	0.22	0.34	0.46	0.59	0.71
	High		1470	1425	1360	1300	1225	1135	1050	920
	<i>Corrected ESP¹</i>					0.08	0.22	0.37	0.51	0.65
		Dry Coil ESP	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80
1600 C-Cabinet	Low		1035	1005	970	925	875	825	770	710
	<i>Corrected ESP¹</i>			0.11	0.22	0.33	0.44	0.54	0.65	0.76
	Med		1635	1595	1525	1475	1405	1305	1210	1060
	<i>Corrected ESP¹</i>				0.08	0.20	0.32	0.44	0.57	0.69
	High		1910	1840	1760	1685	1595	1495	1395	1250
	<i>Corrected ESP¹</i>					0.14	0.26	0.39	0.52	0.65
		Dry Coil ESP	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80
2000 C-Cabinet	Low		1520	1510	1500	1485	1465	1440	1415	1385
	<i>Corrected ESP¹</i>			0.11	0.21	0.31	0.42	0.52	0.62	0.72
	Med		1900	1885	1860	1830	1790	1740	1680	1620
	<i>Corrected ESP¹</i>			0.06	0.16	0.27	0.37	0.48	0.59	0.70
	High		2245	2195	2135	2080	2015	1950	1885	1800
	<i>Corrected ESP¹</i>				0.12	0.23	0.34	0.45	0.56	0.67

¹ ESP estimate with wet coil and filter

Notes:

- 1) Airflow is shown in CFM, +/- 5%.
- 2) External static pressure (ESP) is shown in inches w.c.
- 3) See unit nameplate or installation instructions for maximum recommended external static pressure.

MB6EM BLOWER PERFORMANCE DATA

		Dry Coil ESP	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80
1200 A-Cabinet	Tap 1	840	800	760	715	670	625	580	530	
	Corrected ESP ¹		0.08	0.19	0.30	0.42	0.53	0.64	0.75	
	Tap 2	880	850	810	770	735	690	660	605	
	Corrected ESP ¹		0.07	0.18	0.29	0.40	0.51	0.62	0.73	
	Tap 3	975	945	910	870	840	800	765	720	
	Corrected ESP ¹		0.03	0.15	0.26	0.37	0.48	0.59	0.70	
	Tap 4	1250	1225	1190	1160	1120	1075	1025	970	
	Corrected ESP ¹				0.08	0.20	0.33	0.45	0.58	
	Tap 5	1380	1340	1295	1245	1190	1130	1070	1000	
	Corrected ESP ¹				0.03	0.16	0.30	0.43	0.56	

Dry Coil ESP 0.10 0.20 0.30 0.40 0.50 0.60 0.70 0.80

1600 B-Cabinet	Tap 1	1000	860	740	640	560	505	475	460	
	Corrected ESP ¹		0.04	0.18	0.31	0.43	0.54	0.65	0.75	
	Tap 2	1100	1015	935	865	800	745	690	650	
	Corrected ESP ¹			0.11	0.24	0.36	0.48	0.60	0.71	
	Tap 3	1320	1280	1235	1190	1140	1085	1030	975	
	Corrected ESP ¹			0.06	0.18	0.30	0.41	0.53	0.65	
	Tap 4	1505	1465	1425	1390	1350	1300	1250	1200	
	Corrected ESP ¹				0.10	0.21	0.33	0.45	0.57	
	Tap 5	1625	1590	1550	1520	1480	1440	1390	1345	
	Corrected ESP ¹				0.04	0.15	0.27	0.39	0.51	

Dry Coil ESP 0.10 0.20 0.30 0.40 0.50 0.60 0.70 0.80

2000 C-Cabinet	Tap 1	1270	1210	1150	1090	1030	970	900	850	
	Corrected ESP ¹		0.11	0.22	0.33	0.44	0.54	0.65	0.76	
	Tap 2	1500	1450	1400	1355	1305	1255	1200	1160	
	Corrected ESP ¹		0.07	0.18	0.29	0.40	0.50	0.61	0.72	
	Tap 3	1695	1655	1610	1565	1515	1470	1420	1370	
	Corrected ESP ¹		0.03	0.14	0.25	0.36	0.47	0.58	0.68	
	Tap 4	1895	1850	1810	1770	1730	1685	1645	1600	
	Corrected ESP ¹			0.10	0.21	0.32	0.43	0.53	0.64	
	Tap 5	2095	2055	2020	1975	1935	1890	1845	1805	
	Corrected ESP ¹			0.05	0.16	0.27	0.38	0.49	0.60	

¹ ESP estimate with wet coil and filter

Notes:

- 1) Airflow is shown in CFM, +/- 5%.
- 2) External static pressure (ESP) is shown in inches w.c.
- 3) See unit nameplate or installation instructions for maximum recommended external static pressure.

AIRFLOW SELECTION FOR VARIABLE SPEED MODELS

Basic Airflow Setting

A-CABINET								
CFM	Switch Number				Nominal Capacity			
	1	2	3	4	1.5	2.0	2.5	3.0
540	0	0	0	1				
600	0	0	0	0				
660	0	0	1	0				
715	1	0	0	1				
790	1	0	0	0				
870	1	0	1	0				
915	0	1	0	1				
955	1	1	0	1				
1015	0	1	0	0				
1060	0	1	1	0				
1075	1	1	0	0				
1165	1	1	1	0				

B-CABINET											
CFM	Switch Number				Nominal Capacity						
	1	2	3	4	1.5	2.0	2.5	3.0	3.5	4.0	
720	0	0	0	1							
800	0	0	0	0							
850	1	0	0	1							
880	0	0	1	0							
945	1	0	0	0							
1040	1	0	1	0							
1085	0	1	0	1							
1140	1	1	0	1							
1205	0	1	0	0							
1265	1	1	0	0							
1325	0	1	1	0							
1390	1	1	1	0							

C-CABINET											
CFM	Switch Number				Nominal Capacity						
	1	2	3	4	3.0	3.5	4.0	5.0			
1075	0	0	0	1							
1135	1	0	0	1							
1225	0	0	0	0							
1295	1	0	0	0							
1380	0	0	1	0							
1460	1	0	1	0							
1525	0	1	0	1							
1625	1	1	0	1							
1740	0	1	0	0							
1860	1	1	0	0							
1960	0	1	1	0							
2090	1	1	1	0							

NOTE: 0=OFF, 1=ON



GENERAL TERMS OF LIMITED WARRANTY

NORDYNE will furnish a replacement for any part of this product which fails in normal use and service within the first five years of installation, in accordance with the terms of the warranty.

For complete details of the Limited Warranty, including applicable terms and conditions, see your local installer or contact the NORDYNE warranty department for a copy.

NORDYNE
COMPLETE COMFORT. GENUINE VALUE.

8000 Phoenix Parkway | O'Fallon, MO 63368-3827

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