



Midea MRC X152H Series Packaged Heat Pump

15.2 SEER2

Capacity: 36 - 60 kBTU/h



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Features:

- High efficiency, 15.2 SEER2&8.0 HSPF.
- Inverter technology, more quiet operation.
- ECM indoor fan motor, saving more operation cost.
- Compatible with 24V wired controller.
- Auto fan is standard (4 fan speed).
- Cold air prevention function, more comfortable
- Multiple system protection.
- Intelligent oil return technology.
- AHRI certified and ETL listed.
- All-aluminum tubes & fins.

1 Nomenclature

M	R	C	-	36	H	W	N1	-	M	16	A
1	2	3		4	5	6	7		8	9	10

Legend		
No.	Code	Remarks
1	M	Brand: Midea
2	R	Packaged unit
3	C	Discharge type: C: Side discharge D: Double deck
4	24	Capacity: 24: 24 kBtu/h; 30: 30 kBtu/h; 36: 36 kBtu/h; 42: 42 kBtu/h; 48: 48 kBtu/h; 60: 60 kBtu/h;
5	H	Unit type: C: cooling only; H: heat pump
6	W	Controller type: W: Wired controller
7	N1	Refrigerant type: N1: R410A
8	M	Power supply type: M: 1-Phase; X: 3-Phase
9	16	Efficiency: 16: 16SEER/15.2SEER2
10	A	Version number

2 Specifications

	MRC-36HWD1N1-M16A	MRC-60HWD1N1-M16A
NOMINAL CAPACITY		
Cooling (BTU/h)	36,000	60,000
Heating (BTU/h)	/	/
ELECTRICAL DATA		
Voltage / Phase (60 Hz)	208/230 / 1	208/230 / 1
Min. / Max. Voltage	187/253	187/253
MCA	25.1	41.8
MOP	40	60
COMPRESSOR		
Type	Rotary	Rotary
Stage	Single	Single
RLA	15.0	27.0
OUTDOOR COIL		
Type	Tube & Fin	Tube & Fin
Tube Size(O.D)	9/32	9/32
OUTDOOR FAN MOTOR		
Motor Type	ECM	ECM
Capacitor(uF)	/	/
Horsepower (HP)	1/3	1/3
Full Load Amps (FLA)	2.0	2.0
Rated RPM	980	980
INDOOR COIL		
Type	Tube & Fin	Tube & Fin
Tube Size(O.D)	9/32	9/32
INDOOR BLOWER MOTOR		
Motor Type	ECM	ECM
Capacitor(uF)	/	/
Horsepower (HP)	1/2	3/4
Full Load Amps (FLA)	4.3	6.0
Rated RPM	1050	1050
REFRIGERATION SYSTEM		
Refrigerant Control	EEV	EEV
Refrigerant Charge (lbs. - oz.)	5-13	5-12
OPERATION RANGE		
Cooling(°F)	55-115	55-115
Heating(°F)	5-86	5-86
SOUND POWER (DB)	80	81

3 Dimensions



		MRC-36HWN1-M16A	MRC-60HWN1-M16A
UNIT DIMENSION AND WEIGHTS			
	Height (in.)	24-13/16	33-1/16
	Width (in.)	37-3/4	42-1/16
	Depth (in.)	52	58-1/2
	Net Weight (lbs.)	320	434

4 Airflow Data

Model Number	Motor Speed *		SCFM								
			External Static Pressure-Inches W.C.[kPa]								
			0[0]	0.1[.02]	0.2[.05]	0.3[.07]	0.4[.10]	0.5[.12]	0.6[.15]	0.7[.17]	0.8[.20]
36	Tap 1	SCFM	1046	951	890	876	841	/	/	/	/
		Watts	110	120	131	135	143	/	/	/	/
		Amps	1.26	1.33	1.49	1.43	1.33	/	/	/	/
	Tap 2	SCFM	1122	1075	1023	1009	976	931	/	/	/
		Watts	148	158	170	174	183	196	/	/	/
		Amps	1.52	1.6	1.68	1.71	1.77	1.87	/	/	/
	Tap 3	SCFM	1327	1287	1243	1229	1199	1158	1118	/	/
		Watts	234	247	260	265	275	290	306	/	/
		Amps	2.15	2.25	2.34	2.38	2.45	2.57	2.69	/	/
	Tap 4	SCFM	1411	1372	1330	1316	1285	1245	1206	1131	/
		Watts	275	288	302	307	316	333	349	380	/
		Amps	2.45	2.55	2.66	2.69	2.77	2.89	3.01	3.24	/
	Tap 5	SCFM	1572	1538	1500	1487	1458	1419	1382	1353	1314
		Watts	380	396	411	416	427	444	463	476	497
		Amps	3.2	3.36	3.47	3.51	3.59	3.72	3.86	3.96	4.12
60	Tap 1	SCFM	1398	1338	1282	1231	1175	/	/	/	/
		Watts	166	176	187	198	208	/	/	/	/
		Amps	1.7	1.7	1.8	1.9	1.9	/	/	/	/
	Tap 2	SCFM	1476	1420	1367	1316	1265	1213	/	/	/
		Watts	194	205	217	228	239	250	/	/	/
		Amps	1.9	2	2	2.1	2.2	2.3	/	/	/
	Tap 3	SCFM	1777	1728	1680	1635	1592	1549	/	/	/
		Watts	323	338	352	365	378	391	/	/	/
		Amps	2.8	2.9	3	3.1	3.2	3.3	/	/	/
	Tap 4	SCFM	1937	1889	1842	1792	1758	1720	1670	1636	/
		Watts	412	428	444	457	471	486	499	513	/
		Amps	3.5	3.6	3.7	3.8	3.9	4	4.1	4.2	/
	Tap 5	SCFM	2235	2191	2144	2091	2050	2010	1971	1936	1892
		Watts	623	642	660	673	689	704	719	734	744
		Amps	4.5	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.8

Bold outlined areas represent airflow outside of the required 300-450 cfm/ton range.

- 1 Silent Mode --- low stage speed.
- 2 Factory Default --- low stage speed.
- 3 Silent Mode --- high stage speed. Or High Static Pressure Mode --- low stage speed.
- 4 Factory Default --- high stage speed.
- 5 High Static Pressure Mode --- high stage speed.

NOTES:

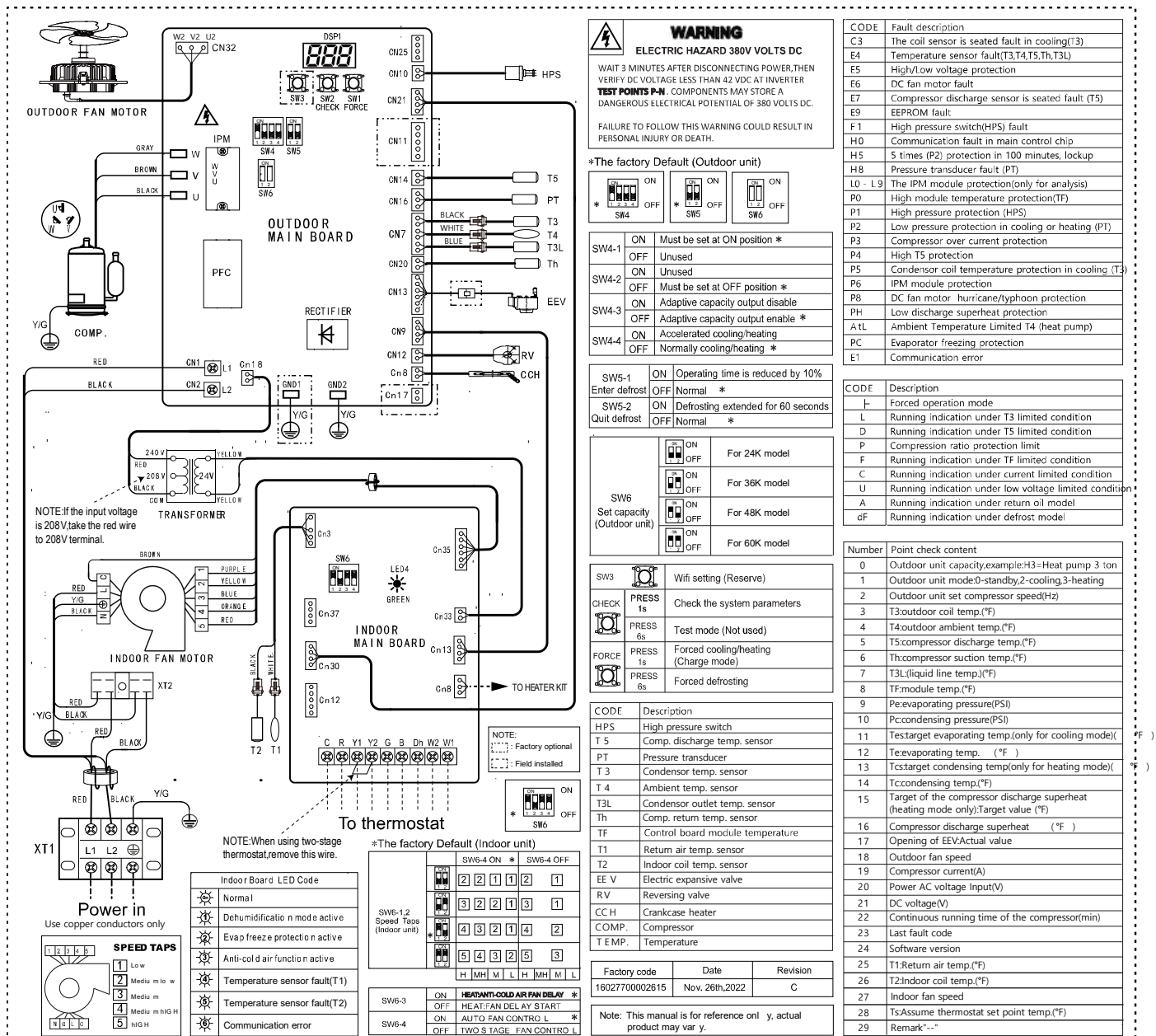
1. This table is only used to select the highest blower speed.
2. The rated airflow of systems without electric heater kits requires between 300 and 450 cubic feet of air per minute (CFM).The rated airflow of systems with electric heater kits requires between 350 and 450 cubic feet of air per minute (CFM).
3. The air distribution system has the greatest effect on airflow. Therefore, the contractor should use only industry-recognized procedures.
4. Duct design and construction should be carefully done. System performance can be lowered dramatically through poor design or workmanship.
5. Air supplier ducts should be located along the perimeter of the conditioned space and properly sized. Improper location or insufficient air flow may cause drafts or noise in the ductwork.
6. Installers should balance the air distribution system to ensure proper quiet airflow to all rooms in the home. An air velocity meter or airflow hood can be used to balance and verify branch and system airflow (CFM).
7. Factory Default maximum static pressure 0.6 inches W.C.. If static pressure exceeds 0.6 inches W.C. please dial code to Tap(5)

5 Electric Heat Kit Data

Capacity KBTU	Heater Circuit (without units)					
	Model	KW	Stages	Amps	MCA	Max Fuse Breaker Amps
36	EHK-05J-15	3.8/5	1	18.1/20.8	23/26	25/30
	EHK-08J-15	5.6/7.5	1	27.1/31.3	34/40	35/40
	EHK-10J-15	7.5/10	1	36.1/41.7	46/53	50/60
	EHK-15J-15	11.3/15	2	54.2/62.5	68/79	70/80
60	EHK-05J-15	3.8/5	1	18.1/20.8	23/26	25/30
	EHK-08J-15	5.6/7.5	1	27.1/31.3	34/40	35/40
	EHK-10J-15	7.5/10	1	36.1/41.7	46/53	50/60
	EHK-15J-15	11.3/15	2	54.2/62.5	68/79	70/80
	EHK-20J-15	15/20	2	72.3/83.4	91/105	100/110

6 Wiring Diagrams

MRC-36HWD1N1-M16A, MRC-60HWD1N1-M16A



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Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.

