



# Midea MCPM Series A Coil



### Contents:

- 1 NOMENCLATURE.....2
- 2 SPECIFICATIONS.....4
- 3 DIMENSIONS.....5
- 4 PISTON.....6
- 4 AIRFLOW PERFORMANCE.....7



### Features:

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• Multi-refrigerant:<br/>Coils are designed compatible with R410A and R22 refrigerant.</li> <li>• High quality heat-exchanger:<br/>Constructed of enhanced aluminum fins and internally grooved copper tubing.</li> <li>• Insulated cabinet:<br/>Evaporator coil cabinets are thermally insulated with foil faced insulation to prevent sweating. (Cased coil only)</li> </ul> | <ul style="list-style-type: none"> <li>• Multi-position installation:<br/>Cased coil has two drain pans, and can satisfy multi-position installation. (Cased coil only)</li> <li>• Widely match:<br/>Cased &amp; uncased a coils match Midea unitary products and many brand-name, popular gas furnaces and split system.</li> <li>• UL listed.</li> </ul> |
|---|--|

## 1 Nomenclature

M	C	P	M	3	0	3	6	A	N	O	A
1	2	3	4		5			6	7	8	9

Legend		
No.	Code	Remarks
1	M	Brand: Midea brand
2	C	Coil
3	P	?
4	M	Installation type: M: Multiple Position Installation V: Vertical Position Installation
5	3036	Capacity: 3036: 30/36KBtu/h Note: The coil is designed for 30K and 36K condenser unit.
6	A	Cabinet Size
7	N	Refrigerant type: R410A
8	0	Valve type: O: Orifice(Piston) T: TXV E: EEV(Reserved)
9	A	Version Number

## 2 Specifications

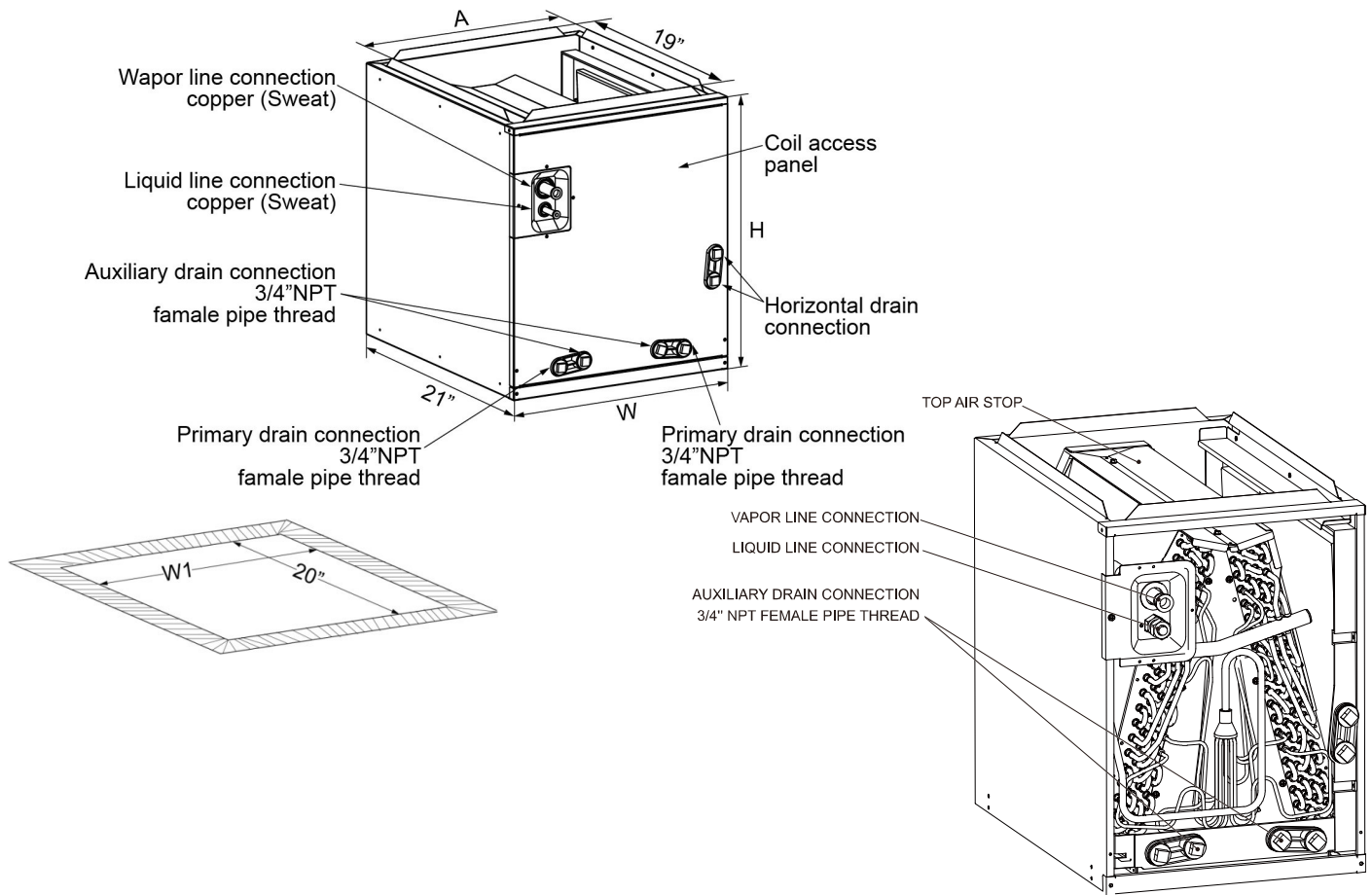
	<b>MCPM3036ANO</b>	<b>MCPM3036BNO</b>	<b>MCPM3036CNO</b>	<b>MCPM3642BNO</b>
<b>INSTALLATION</b>	Multiple position	Multiple position	Multiple position	Multiple position
<b>SUPPLY DUCT(in.)</b>	13	16	19-1/2	16
<b>NOMINAL RATING</b> Max. Cooling (BTU/h)	30,000/36,000	30,000/36,000	30,000/36,000	36,000/42,000
<b>EVAPORATOR COIL</b> Type Tube Material Tube Size(in.)	Tube & Fin Aluminum 9/32	Tube & Fin Aluminum 9/32	Tube & Fin Aluminum 9/32	Tube & Fin Aluminum 9/32
<b>REFRIGERANT CONNECTION SIZE</b> Liquid Line Size (O.D.) Suction Line Size (O.D.)	3/8  3/4	3/8  3/4	3/8  3/4	3/8  7/8

	<b>MCPM3642CNO</b>	<b>MCPM3642DNO</b>	<b>MCPM4248BNO</b>	<b>MCPM4248CNO</b>
<b>INSTALLATION</b>	Multiple position	Multiple position	Multiple position	Multiple position
<b>SUPPLY DUCT(in.)</b>	19-1/2	23	16	19-1/2
<b>NOMINAL RATING</b> Max. Cooling (BTU/h)	36,000/42,000	36,000/42,000	42,000/48,000	42,000/48,000
<b>EVAPORATOR COIL</b> Type Tube Material Tube Size(in.)	Tube & Fin Aluminum 9/32	Tube & Fin Aluminum 9/32	Tube & Fin Aluminum 9/32	Tube & Fin Aluminum 9/32
<b>REFRIGERANT CONNECTION SIZE</b> Liquid Line Size (O.D.) Suction Line Size (O.D.)	3/8  7/8	3/8  7/8	3/8  7/8	3/8  7/8

## Specifications

	MCPM4248DNOH	MCPM4860CNOH	MCPM4860DNOH
<b>INSTALLATION</b>	Multiple position	Multiple position	Multiple position
<b>SUPPLY DUCT(in.)</b>	23	19-1/2	23
<b>NOMINAL RATING</b> Max. Cooling (BTU/h)	42,000/48,000	48,000/60,000	48,000/60,000
<b>EVAPORATOR COIL</b>  Type Tube Material Tube Size(in.)	Tube & Fin Aluminum 9/32	Tube & Fin Aluminum 9/32	Tube & Fin Aluminum 9/32
<b>REFRIGERANT CONNECTION SIZE</b>  Liquid Line Size (O.D.)  Suction Line Size (O.D.)	3/8  7/8	3/8  7/8	3/8  7/8

### 3 Dimensions



Model	Unit Dimensions					Weight (lbs.)
	Unit height "H" (in.)	Unit width "W" (in.)	Supply duct "A" (in.)	"W1" (in.)	Liquid line/ Vapor line	
MCPM3036ANO	20	14-1/2	13	13-1/2	3/8 / 3/4	46
MCPM3036BNO	20	17-1/2	16	16-1/2	3/8 / 3/4	49
MCPM3036CNO	20	21	19-1/2	20	3/8 / 3/4	51
MCPM3642BNO	26	17-1/2	16	16-1/2	3/8 / 7/8	60
MCPM3642CNO	26	21	19-1/2	20	3/8 / 7/8	62
MCPM3642DNO	26	24-1/2	23	23-1/2	3/8 / 7/8	66
MCPM4248BNO	30	17-1/2	16	16-1/2	3/8 / 7/8	73
MCPM4248CNO	30	21	19-1/2	20	3/8 / 7/8	73
MCPM4248DNO	30	24-1/2	23	23-1/2	3/8 / 7/8	77
MCPM4860CNO	30	21	19-1/2	20	3/8 / 7/8	82
MCPM4860DNO	30	24-1/2	23	23-1/2	3/8 / 7/8	86

**4 Piston**

Factory installed piston size for each coil model. Additional piston sizes are provided in the ship-with literature bag as necessary

Model	Piston/orifice sizes												
	50	52	56	58	60	64	68	70	73	75	80	83	90
MCPM3036ANO		X		X	X	X*		X					
MCPM3036BNO		X		X	X	X*		X					
MCPM3036CNO		X		X	X	X*		X					
MCPM3642BNO		X			X	X		X		X*			
MCPM3642CNO					X	X		X		X*			
MCPM3642DNO					X	X		X		X*			
MCPM4248BNO				X		X		X		X		X*	
MCPM4248CNO						X		X		X		X*	
MCPM4248DNO								X		X		X*	
MCPM4860CNO										X	X	X	X*
MCPM4860DNO										X	X	X	X*

**Note:** \* means that this piston is pre-installed

**Piston superheat charging chart**

Outdoor temp(°F)	Indoor Temperature(°F) Dry Bulb/Wet Bulb					
	95/79	90/75	85/71	80/67	75/63	70/58
	Superheat					
115	23	16	7	5	5	5
110	24	17	9	5	5	5
105	26	19	11	5	5	5
100	27	21	13	7	5	5
95	29	23	16	9	5	5
90	30	25	18	12	5	5
85	35	26	20	14	8	5
80	34	28	22	17	11	5
75	35	30	24	19	13	6
70	37	32	26	21	16	10
65	38	34	29	24	19	13
60	40	36	31	27	22	17
55	41	37	33	29	25	21

**Note:** Chart is based on 400CFM/Ton indoor airflow and 50% relative humidity. If indoor relative humidity is above 70% or below 20%, use indoor wet bulb temperature only.

Airflow range is 375 to 425 CFM/Ton

## 5 Airflow Performance

Pressure drop characteristics for cooling and heat pump coils								
Pressure drop (Inches of water)								
Model	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4*
<b>MCPM3036ANO</b> H	307	485	618	729	823	911	991	1063
<b>MCPM3036BNO</b> H	327	527	682	810	925	1024	1122	1217
<b>MCPM3036CNO</b> H	360	585	748	893	1019	1132	1238	1348
<b>MCPM3642BNO</b> H	401	600	773	916	1045	1160	1256	1357
<b>MCPM3642CNO</b> H	457	663	856	1019	1156	1277	1394	1502
<b>MCPM3642DNO</b> H	496	718	924	1102	1259	1398	1530	1651
<b>MCPM4248BNO</b> H	456	638	810	953	1077	1191	1284	1390
<b>MCPM4248CNO</b> H	505	726	932	1098	1244	1375	1494	1604
<b>MCPM4248DNO</b> H	533	857	1105	1319	1509	1675	1824	1956
<b>MCPM4860CNO</b> H	439	699	906	1071	1224	1362	1487	1589
<b>MCPM4860DNO</b> H	466	764	978	1157	1313	1466	1590	1695

Data based on wet coil with entering air at 80 degF DB / 67 degF WB without air filter. The maximum allowable pressure drop is 0.4 IWG.

The maximum CFM is the data at 0.4 IWG pressure.

### Maximum airflow setting

Maximum airflow setting (CFM)				
Model	Up flow	Horizontal Left	Down flow	Horizontal Right
<b>MCPM3036ANO</b> H	1200	1050	1050	1200
<b>MCPM3036BNO</b> H	1250	1200	1050	1250
<b>MCPM3036CNO</b> H	1250	1200	1050	1250
<b>MCPM3642BNO</b> H	1575	1400	1400	1575
<b>MCPM3642CNO</b> H	1575	1400	1400	1575
<b>MCPM3642DNO</b> H	1575	1450	1450	1575
<b>MCPM4248BNO</b> H	1800	1800	1700	1500
<b>MCPM4248CNO</b> H	1800	1800	1700	1700
<b>MCPM4248DNO</b> H	1800	1800	1700	1700
<b>MCPM4860CNO</b> H	1850	1750	1750	1850
<b>MCPM4860DNO</b> H	2000	1850	1850	2000

**Note:** Water blow-off could occur in certain installation positions if the airflow setting exceeds the maximum values listed.

**Midea Building Technologies Division**  
**Midea Group**

**Add.:** Midea Headquarters Building, 6 Midea Avenue, Shunde, Foshan, Guangdong, China

**Postal code:** 528311

[mbt.midea.com](http://mbt.midea.com) / [global.midea.com](http://global.midea.com) / [tsp.midea.com](http://tsp.midea.com)

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

