



R454B

Midea Multi-Position Cased Coils

MCPM Series Indoor A-Coil

Cooling capacity: 30-60 kBtu/h



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Standard Features:

- Equipped with a refrigerant sensor, suitable for R454b system .
- UL 60335 2-40 and AHRI certificated.
- High efficiency and energy saving, AHRI energy efficiency certificated .
- Multi-position installation accommodated a variety of installation scenarios .
- Broad cooling range from 55 °F to 120 °F.
- Optional factory installed Thermostatic Expansion Valve .
- All aluminum coil for corrosion-resistance.
- 100% insulation, reduces operating sound and enhance thermal insulation.
- Perfect match with Midea MGV gas furnace, no need extra kit for R454b system.

1 Product lineup

Model	MCPM3036AN10OH, MCPM3036BN10OH MCPM3036CN10OH, MCPM3642BN10OH MCPM3642CN10OH, MCPM3642DN10OH MCPM4248BN10OH, MCPM4248CN10OH MCPM4248DN10OH, MCPM4860CN10OH MCPM4860DN10OH
Appearance	

2 Nomenclature

M	C	PM	3036	A	N10	O	H
1	2	3	4	5	6	7	8

Legend		
No.	Code	Remarks
1	M	Brand: Midea
2	C	A Coil
3	PM	PM—Multiple Position Installation (Cased)
4	3036	3036—30/36 kBtu/h; 3642 - 36/42 kBtu/h; 4248 - 42/48 kBtu/h; 4860 - 48/60 kBtu/h; Note: The coil is designed for 30K and 36K condenser unit.
5	A	A/B/C/D - Case specification
6	N10	Refrigerant type: N10: R454B
7	O	O: Piston; T: TXV
8	H	Design serial number

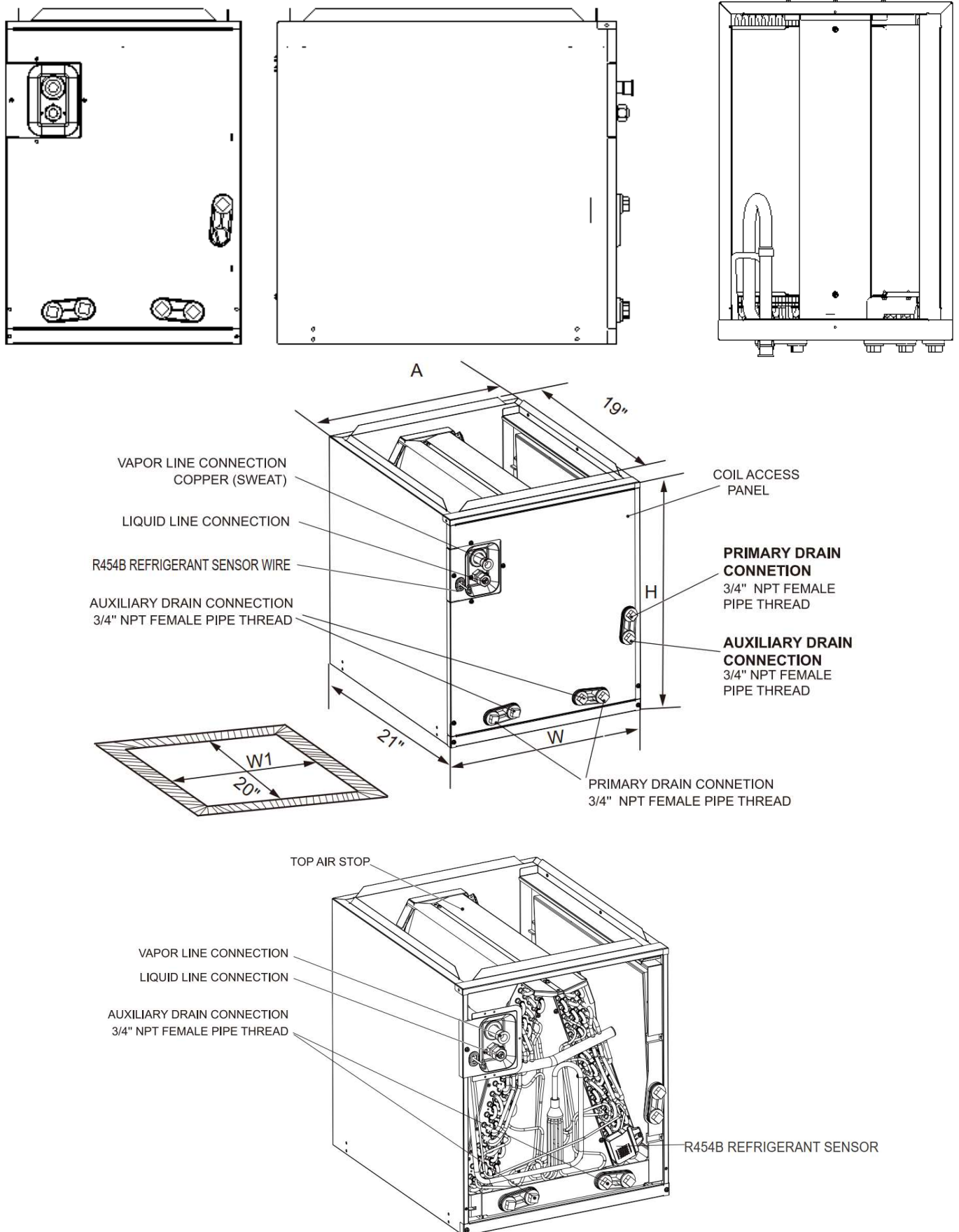
3 Specifications

	MCPM3036AN100H	MCPM3036BN100H	MCPM3036CN100H	MCPM3642BN100H
INSTALLATION	Multiple position	Multiple position	Multiple position	Multiple position
AIR OUTLET (W × H) (in.)	13 × 19	16 × 19	19-1/2 × 19	16 × 19
NOMINAL RATING				
Max. Cooling (BTU/h)	30,000/36,000	30,000/36,000	30,000/36,000	36,000/42,000
EVAPORATOR COIL				
Type	Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
Tube Material	Aluminum	Aluminum	Aluminum	Aluminum
Tube Size (in.)	9/32	9/32	9/32	9/32
REFRIGERANT CONNECTION SIZE				
Liquid Line Size (O.D.) (in.)	3/8	3/8	3/8	3/8
Suction Line Size (O.D.) (in.)	3/4	3/4	3/4	3/4
DIMENSIONS				
Net dimensions (D × W × H) (in.)	21 × 14-1/2 × 20	21 × 17-1/2 × 20	21 × 21 × 20	21 × 17-1/2 × 26
Packed dimensions (D × W × H) (in.)	25 × 17-11/16 × 22-1/4	24-15/16 × 20-5/8 × 22-1/4	24-15/16 × 24-3/16 × 22-1/4	24-15/16 × 20-5/8 × 28-1/8
WEIGHT				
Net weight (lbs.)	45	47	49	57
Shipping weight (lbs.)	54	57	55	64

	MCPM3642CN100H	MCPM3642DN100H	MCPM4248BN100H	MCPM4248CN100H
INSTALLATION	Multiple position	Multiple position	Multiple position	Multiple position
AIR OUTLET (W × H) (in.)	19-1/2 × 19	23 × 19	16 × 19	19-1/2 × 19
NOMINAL RATING				
Max. Cooling (BTU/h)	36,000/42,000	36,000/42,000	42,000/48,000	42,000/48,000
EVAPORATOR COIL				
Type	Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
Tube Material	Aluminum	Aluminum	Aluminum	Aluminum
Tube Size (in.)	9/32	9/32	3/8	3/8
REFRIGERANT CONNECTION SIZE				
Liquid Line Size (O.D.) (in.)	3/8	3/8	3/8	3/8
Suction Line Size (O.D.) (in.)	3/4	3/4	3/4	3/4
DIMENSIONS				
Net dimensions (D × W × H) (in.)	21 × 21 × 26	21 × 24-1/2 × 26	21 × 17-1/2 × 30	21 × 21 × 30
Packed dimensions (D × W × H) (in.)	24-15/16 × 24-3/16 × 28-1/8	24-15/16 × 27-9/16 × 28-1/8	24-15/16 × 20-5/8 × 32-5/16	24-15/16 × 24-3/16 × 32-5/16
WEIGHT				
Net weight (lbs.)	59	64	73	73
Shipping weight (lbs.)	66	70	79	79

	MCPM4248DN100H	MCPM4860CN100H	MCPM4860DN100H
INSTALLATION	Multiple position	Multiple position	Multiple position
AIR OUTLET (W × H) (in.)	23 × 19	19-1/2 × 19	23 × 19
NOMINAL RATING			
Max. Cooling (BTU/h)	42,000/48,000	48,000/60,000	48,000/60,000
EVAPORATOR COIL			
Type	Tube & Fin	Tube & Fin	Tube & Fin
Tube Material	Aluminum	Aluminum	Aluminum
Tube Size (in.)	3/8	3/8	3/8
REFRIGERANT CONNECTION SIZE			
Liquid Line Size (O.D.) (in.)	3/8	3/8	3/8
Suction Line Size (O.D.) (in.)	3/4	3/4	3/4
DIMENSIONS			
Net dimensions (D × W × H) (in.)	21 × 24-1/2 × 30	21 × 21 × 30	21 × 24-1/2 × 30
Packed dimensions (D × W × H) (in.)	24-15/16 × 27-9/16 × 32-5/16	24-15/16 × 24-3/16 × 32-5/16	24-15/16 × 27-9/16 × 32-5/16
WEIGHT			
Net weight (lbs.)	75	82	86
Shipping weight (lbs.)	82	88	93

4 Dimensional Drawing



MODELS	Unit Dimensions IN. [mm]					WEIGHT (LBS. [kg])
	UNIT HEIGHT "H"	UNIT WIDTH "W"	SUPPLY DUCT "A"	"W1"	LIQUID LINE/ VAPOR LINE	
MCPM3036AN10OH	20 [508]	14-1/2 [368]	13 [330]	13-1/2 [343]	3/8 / 3/4	44 [20]
MCPM3036BN10OH	20 [508]	17-1/2 [445]	16 [407]	16-1/2 [419]	3/8 / 3/4	46 [21]
MCPM3036CN10OH	20 [508]	21 [533]	19-1/2 [495]	20 [508]	3/8 / 3/4	49 [22]
MCPM3642BN10OH	26 [660]	17-1/2 [445]	16 [407]	16-1/2 [419]	3/8 / 3/4	57 [26]
MCPM3642CN10OH	26 [660]	21 [533]	19-1/2 [495]	20 [508]	3/8 / 3/4	59 [27]
MCPM3642DN10OH	26 [660]	24-1/2 [622]	23 [584]	23-1/2 [597]	3/8 / 3/4	64 [29]
MCPM4248BN10OH	30 [762]	17-1/2 [445]	16 [407]	16-1/2 [419]	3/8 / 3/4	73 [33]
MCPM4248CN10OH	30 [762]	21 [533]	19-1/2 [495]	20 [508]	3/8 / 3/4	73 [33]
MCPM4248DN10OH	30 [762]	24-1/2 [622]	23 [584]	23-1/2 [597]	3/8 / 3/4	75 [34]
MCPM4860CN10OH	30 [762]	21 [533]	19-1/2 [495]	20 [508]	3/8 / 3/4	82 [37]
MCPM4860DN10OH	30 [762]	24-1/2 [622]	23 [584]	23-1/2 [597]	3/8 / 3/4	86 [39]

5 Airflow Performance

Pressure drop characteristics for cooling (SCFM)								
Model	Pressure drop (Inches of water gauge)							
	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4
MCPM3036AN10OH	307	485	618	729	823	911	991	1063
MCPM3036BN10OH	327	527	682	810	925	1024	1122	1217
MCPM3036CN10OH	360	585	748	893	1019	1132	1238	1348
MCPM3642BN10OH	401	600	773	916	1045	1160	1256	1357
MCPM3642CN10OH	457	663	856	1019	1156	1277	1394	1502
MCPM3642DN10OH	496	718	924	1102	1259	1398	1530	1651
MCPM4248BN10OH	456	638	810	953	1077	1191	1284	1390
MCPM4248CN10OH	505	726	932	1098	1244	1375	1494	1604
MCPM4248DN10OH	533	857	1105	1319	1509	1675	1824	1956
MCPM4860CN10OH	439	699	906	1071	1224	1362	1487	1589
MCPM4860DN10OH	466	764	978	1157	1313	1466	1590	1695

Data based on wet coil with entering air at 80 deg F DB / 67 deg F WB without air filter.

The maximum allowable pressure drop is 0.4 in. WC.

The maximum CFM is the data at 0.4 in. WC. pressure

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