



Midea MPCE Series Ceiling-mounted

Cooling capacity: 18-36 kBTU/h



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Features:

- Safe, low-GWP R454B refrigerant with leak alarm function.
- Durable, corrosion-resistant cabinet help prevent energy loss while virtually eliminating condensation.
- All-aluminum coil provides excellent heat transfer and efficiency with enhanced durability and less risk of leakage compared to conventional copper coils.
- Durable, integrated drain pan is made from rust-resistant materials. A gently-sloped design eliminates standing water.
- Variable speed blower motor provides gradual startup and shutdown, not only decreasing energy consumption but contributing to improved air quality and more consistent temperatures.
- Blower compartment- It can reduce sound for quiet operation and save energy.
- Exquisite design-Super slim appearance and compact structure will save much installation space.

1 Nomenclature

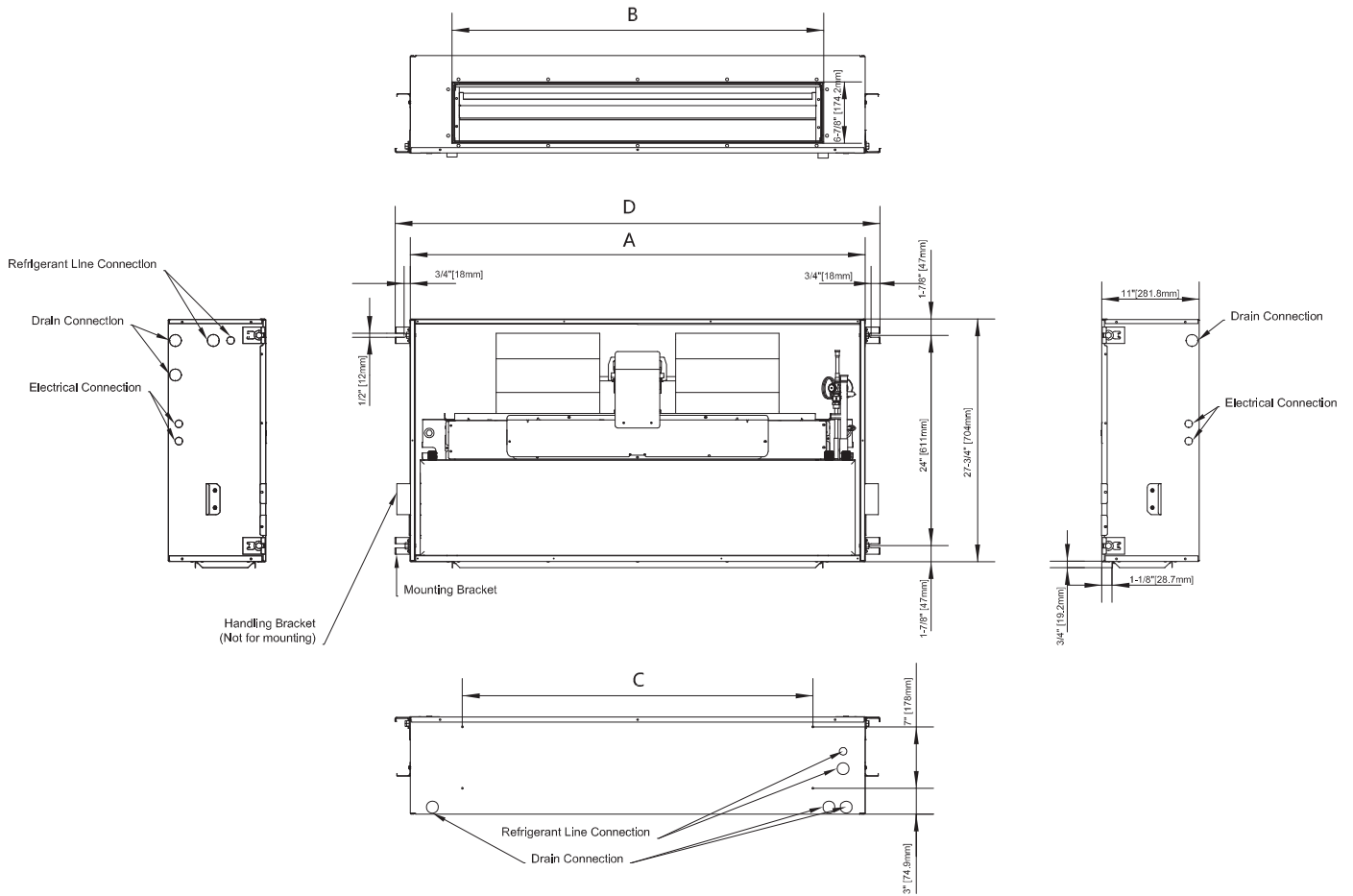
M	P	C	E	24	A	1	M	N10	T	A
1	2	3	4	5	6	7	8	9	10	11

Legend		
No.	Code	Remarks
1	M	Brand: Midea brand
2	P	Discharge type: V: Vertical Air Handler H: Wall Mounted P: Pancake
3	C	Installation type: M: Multi-positional Installation V: Vertical Installation C: Cased (pancake) U: Uncased (pancake)
4	E	Motor type: P: PSC Motor E: ECM Motor
5	24	Capacity: 18: 18 kBtu/h; 24: 24 kBtu/h; 30: 30 kBtu/h; 36: 36 kBtu/h;
6	A	Cabinet Size
7	1	Cabinet Version Number
8	M	Power supply type: M: 1-Phase; X: 3- Phase
9	N10	Refrigerant type: N10: R454B
10	T	Valve type: O: Orifice (Piston) T: TXV E: EEV(Reserved)
11	A	Version Number

2 Specifications

	MPCE18A1MN10TA	MPCE24A1MN10TA	MPCE30B1MN10TA	MPCE36B1MN10TA
NOMINAL RATING				
Cooling (BTU/h)	18,000	24,000	30,000	36,000
External Static Pressure (in.w.g)(Pa)	45	45	60	60
ELECTRICAL DATA				
Voltage / Phase (60Hz)	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph
Min. / Max. Voltage (V)	187/253	187/253	187/253	187/253
Min. Circuit Amps (MCA) (A)	3.3	3.3	3.3	3.3
Max. Overcurrent Protection (MOP) (A)	15	15	15	15
FAN MOTOR				
Motor Type	ECM	ECM	ECM	ECM
Capacitor (uF)	/	/	/	/
Horsepower (HP)	1/3	1/3	1/3	1/3
Rated RPM	1050	1050	1050	1050
Full Load Amps (FLA) (A)	2.6	2.6	2.6	2.6
FAN BLOWER				
Material	Metal	Metal	Metal	Metal
Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Diameter (in.)	7	7	7	7
Height (in.)	8	8	9	9
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
SOUND POWER (dB(A))	57	57	54	54
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

3 Dimensional Drawing



Model	Dimensions (in.) [mm]				Unit Operating Weight (lbs.) [kg]
	A	B	C	D	
MPCE18A1MN10TA	39-3/4 [1010]	30-3/8 [771]	28 [711]	43-3/8 [1101]	116 [52.5]
MPCE24A1MN10TA	39-3/4 [1010]	30-3/8 [771]	28 [711]	43-3/8 [1101]	116 [52.5]
MPCE30B1MN10TA	51-3/4 [1315]	42-1/6 [1076]	40 [1016]	55-3/8 [1406]	142 [64.5]
MPCE36B1MN10TA	51-3/4 [1315]	42-1/6 [1076]	40 [1016]	55-3/8 [1406]	142 [64.5]

4 Airflow Data

Model	Motor Speed	CFM Wet Coil without Filter or Electric Heat, Cased, Back Return							
		External Static Pressure-Inches W.C. [kPa]							
		0[0]	0.1[.025]	0.15[.0375]	0.2[.050]	0.3[.075]	0.4[.100]	0.5[.125]	0.55[.1375]
18K	1	755	691	631	551	512	497	429	399
	2	876	821	766	710	658	639	594	574
	3	980	925	874	829	794	784	720	699
	4	1083	1034	988	947	912	904	860	703
	5	1191	1149	1105	1067	1019	998	869	737
24K	1	755	691	631	551	512	497	429	399
	2	876	821	766	710	658	639	594	574
	3	980	925	874	829	794	784	720	699
	4	1083	1034	988	947	912	904	860	703
	5	1191	1149	1105	1067	1019	998	869	737
30K	1	866	769	655	564	492	473	396	360
	2	1016	926	831	744	685	671	593	555
	3	1144	1067	986	898	840	826	757	719
	4	1272	1200	1128	1061	999	983	920	889
	5	1372	1306	1243	1181	1127	1113	1027	930
36K	1	866	769	655	564	492	473	396	360
	2	1016	926	831	744	685	671	593	555
	3	1144	1067	986	898	840	826	757	719
	4	1272	1200	1128	1061	999	983	920	889
	5	1372	1306	1243	1181	1127	1113	1027	930

Model	Motor Speed	CFM Wet Coil without Filter or Electric Heat, Cased, Bottom Return							
		External Static Pressure-Inches W.C. [kPa]							
		0[0]	0.1[.025]	0.2[.050]	0.3[.075]	0.38[.095]	0.4[.100]	0.5[.125]	0.55[.1375]
18K	1	770	704	638	560	505	493	431	406
	2	899	835	779	724	667	657	595	566
	3	1015	964	910	861	821	810	748	694
	4	1135	1085	1036	991	952	942	780	685
	5	1228	1183	1137	1057	971	943	773	687
24K	1	770	704	638	560	505	493	431	406
	2	899	835	779	724	667	657	595	566
	3	1015	964	910	861	821	810	748	694
	4	1135	1085	1036	991	952	942	780	685
	5	1228	1183	1137	1057	971	943	773	687
30K	1	904	775	678	586	516	498	416	379
	2	1052	950	834	755	693	677	595	563
	3	1186	1098	992	908	853	839	771	738
	4	1323	1245	1145	1063	1003	988	900	794
	5	1432	1361	1274	1183	1091	1068	903	799
36K	1	904	775	678	586	516	498	416	379
	2	1052	950	834	755	693	677	595	563
	3	1186	1098	992	908	853	839	771	738
	4	1323	1245	1145	1063	1003	988	900	794
	5	1432	1361	1274	1183	1091	1068	903	799

--- Shaded boxes represent airflow outside the required 300-450 cfm/ton.

NOTES:

1. Airflow data is without filter or electric heat accessory. Heater adds 0.05 ---in. static.
2. Use wet coil data for determining cooling airflow.
3. Accessory louver panel adds 0.05 ---in. static.
4. When electric heater only is operating, 300CFM for each ton is sufficient except 30K works with 10KW heat (≥900SCFM)

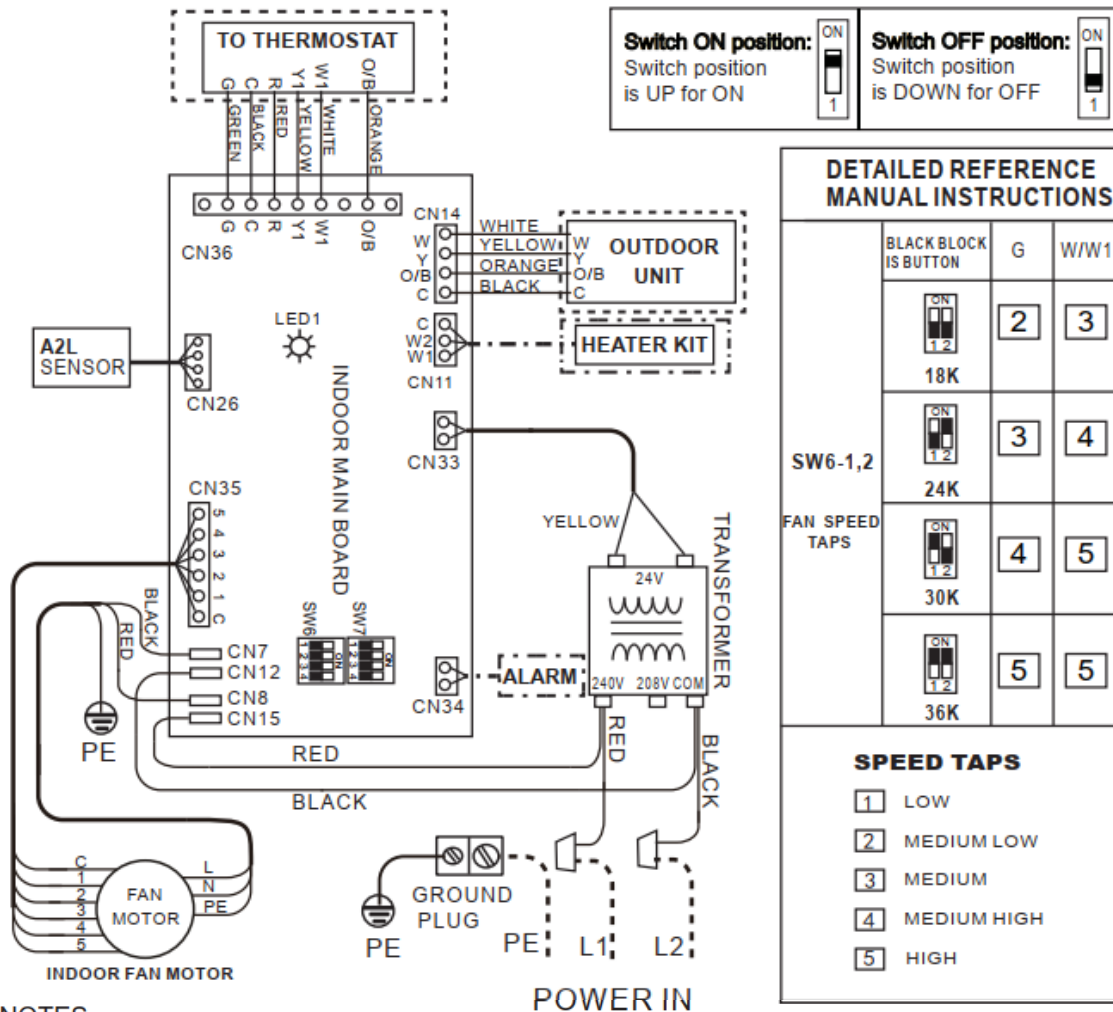
Required CFM Range for Heat Pump Operation

Size	CFM	
	Min	Max
18	450	675
24	600	900
30	750	1125
36	900	1350

5 Wiring Diagram

MPCE18A1MN10TA; MPCE24A1MN10TA; MPCE30B1MN10TA; MPCE36B1MN10TA

<p style="text-align: center; font-weight: bold; font-size: 1.2em;">SCHEMATIC DIAGRAM</p> <p>SEE RATING PLATE FOR VOLT&HERTZ FIELD POWER WIRING</p>	<p style="text-align: center; font-weight: bold;">CAUTION:</p> <p style="text-align: center;">NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V TO GROUND.</p> <p style="text-align: center; font-weight: bold;">ATTENTION:</p> <p style="text-align: center;">NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150V ALA TERRE.</p>
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NOTES:

- 1: Use copper wire (75 °C min) only between disconnect switch and unit.
- 2: To be wired in accordance with **NEC** and local codes.
- 3: If any of the original wire, as supplied, must be replaced. Use the same or equivalent type wire.
- 4: Connect R to R, G to G, Y to Y, etc. See outdoor instruction for details.
- 5: If some signal lines of **CN36** are not used, please wrap them up separately with **CAP**.
- 6: See airflow tables for airflow settings.
- 7: If the input voltage is 208 V, please change the transformer tap by taking the red wire to **208 V** terminal.
- 8: The rated operating current of **ALARM** cannot exceed 1 A. Please refer to the manual for wiring methods.

- - - - - **OPTIONAL**

- - - - - **FIELD INSTALLED**

LED1 STATUS	CONTENT	CONTENT
	STEADY ON	NORMAL OPERATION
	OFF	POWER SUPPLY FAILURE
	KEEP FLASHING	REFRIGERANT LEAK PROTECTION
	3 FLASH/CYCLE	A2L SENSOR ERROR
	4 FLASH/CYCLE	A2L SENSOR COMMUNICATION ERROR

Factory code	Date	Revision
16023000014748	Nov. 15th, 2023	A

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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.