

Ceiling Type

MMC-AP0158HP-E / MMC-AP0188HP-E
MMC-AP0248HP-E / MMC-AP0288HP-E
MMC-AP0368HP-E / MMC-AP0488HP-E
MMC-AP0568HP-E



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1. Specifications

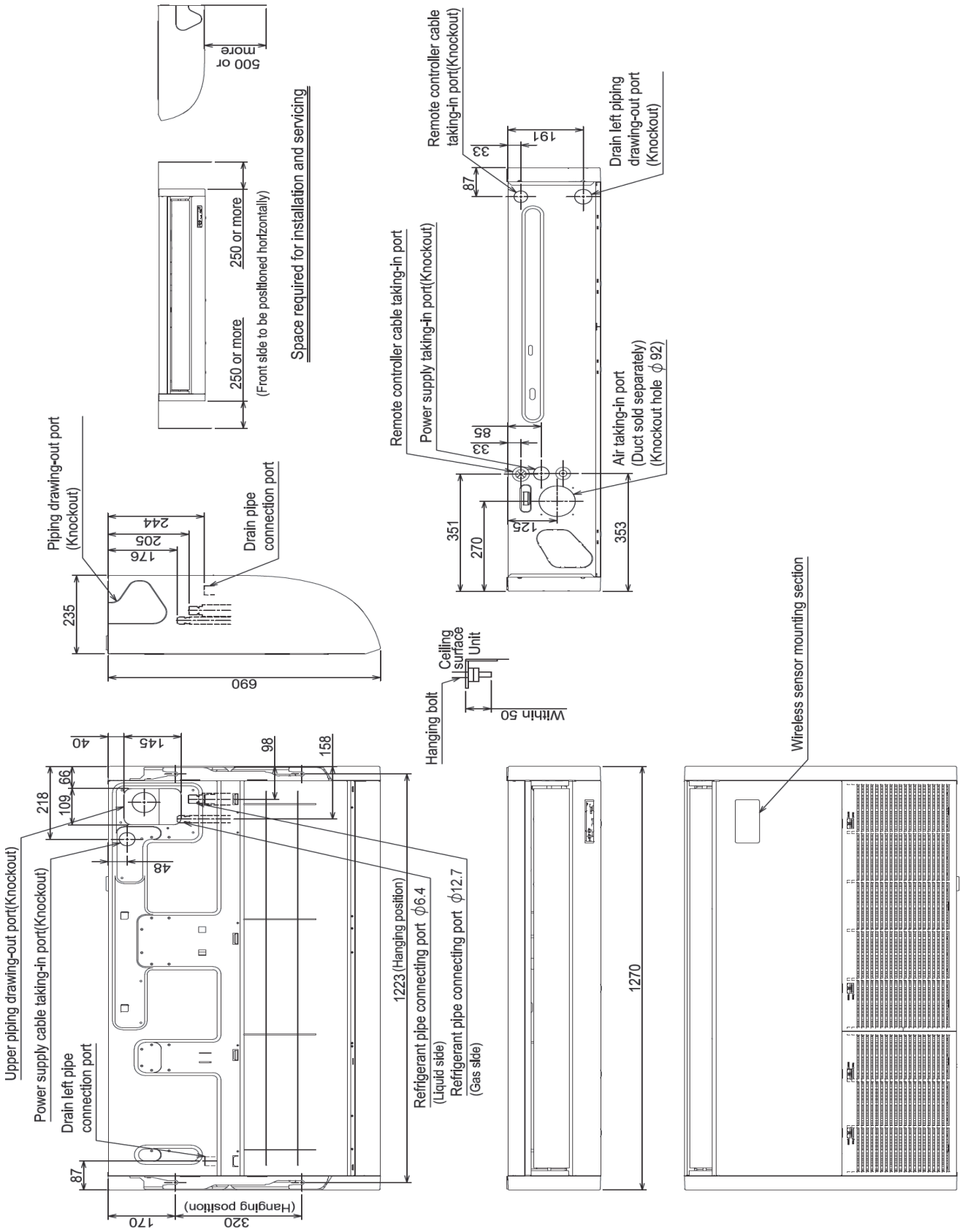


Model Name		MMC	0158HP-E	0188HP-E	0248HP-E	0278HP-E	0368HP-E	0488HP-E	0568HP-E
Cooling/Heating capacity		(kW)	4.5/5.0	5.6/6.3	7.1/8.0	8.0/9.0	11.2/12.5	14.0/16.0	16.0/18.0
Electrical characteristics	Power supply		1 phase 50Hz 230V (220-240V) / 1 phase 60Hz 220V						
	Running current (50/60 Hz)	(A)	0.36/0.37	0.37/0.38	0.65/0.67	0.65/0.67	0.77/0.80	0.77/0.80	0.99/1.02
	Power consumption	(kW)	0.033	0.034	0.067	0.067	0.083	0.083	0.111
	Starting current (50/60 Hz)	(A)	0.54/0.55	0.55/0.57	0.97/1.00	0.97/1.00	1.16/1.20	1.16/1.20	1.49/1.53
Appearance			Pure White (Munsell N9.1)						
Dimension	Height	(mm)	235						
	Width	(mm)	950	1270			1586		
	Depth	(mm)	690						
Total weight	(kg)	24	30			39			
Heat exchanger			Finned tube						
Soundproof/Heat-insulating material			Polyethylene foam						
Fan unit			Centrifugal fan (Sirocco fan)						
Standard air flow	High	(m³/h)	840	960	1440	1440	1860	1860	2040
	Mid.	(m³/h)	690	720	1020	1020	1350	1530	1650
	Low	(m³/h)	540	540	750	750	1020	1200	1260
Motor output		(W)	94				139		
Air filter			Standard filter (Long life filter)						
Controller			Remote controller						
Room thermostat			Attached						
Connecting pipe	Gas side	(mm)	12.7			15.9			
	Liquid side	(mm)	6.4			9.5			
	Drain port	(mm)	20 (Polyvinyl chloride tube)						
Sound pressure level (High/Mid/Low)		(dBA)	36/34/28	37/35/28	41/36/29	41/36/29	44/38/32	44/41/35	46/42/36

Note :

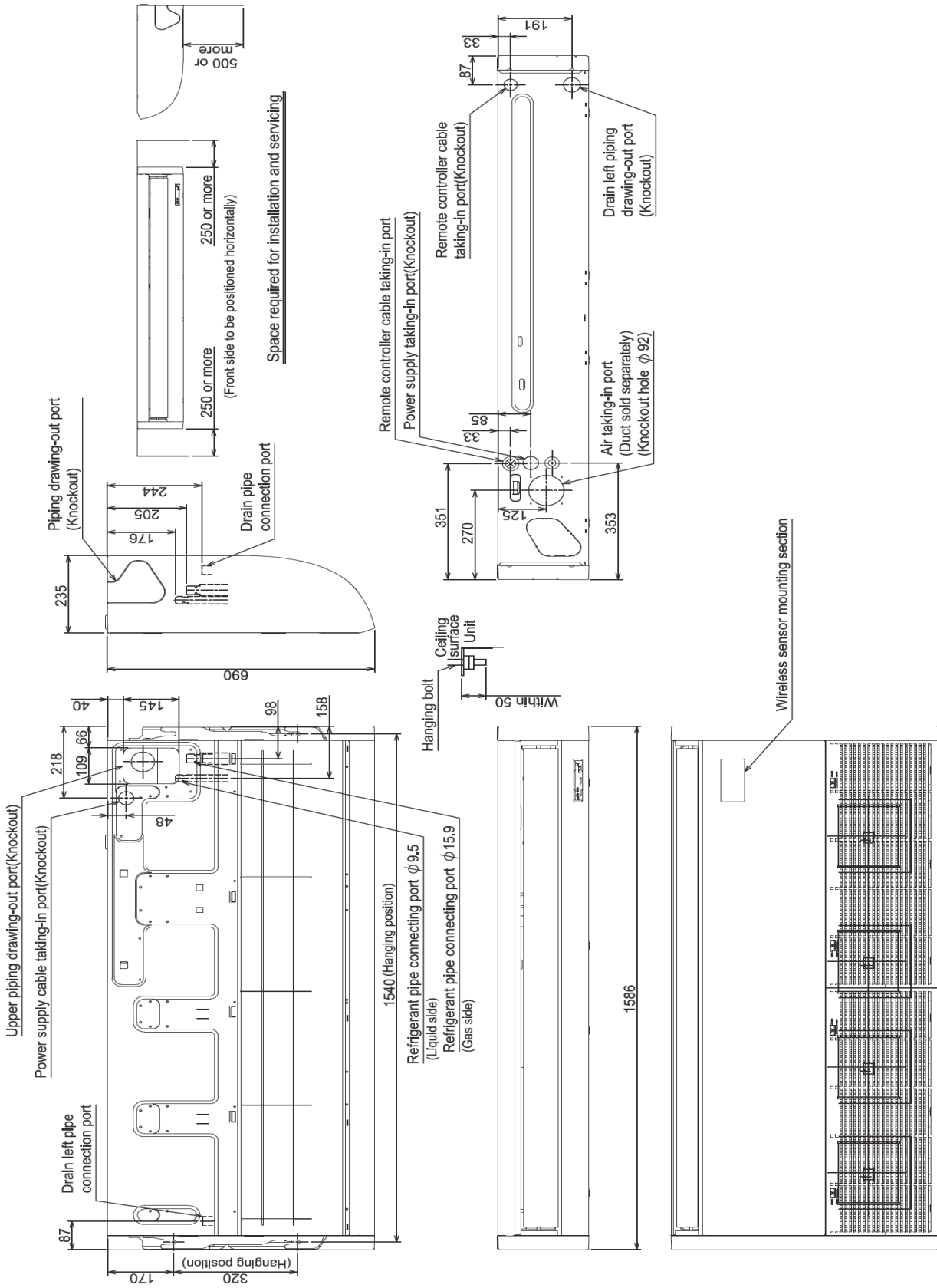
(*1) Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB
 Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB
 Based on equivalent piping length of 7.5 m and piping height difference of 0 m.

MMC-AP0248HP-E, AP0278HP-E



(Unit:mm)

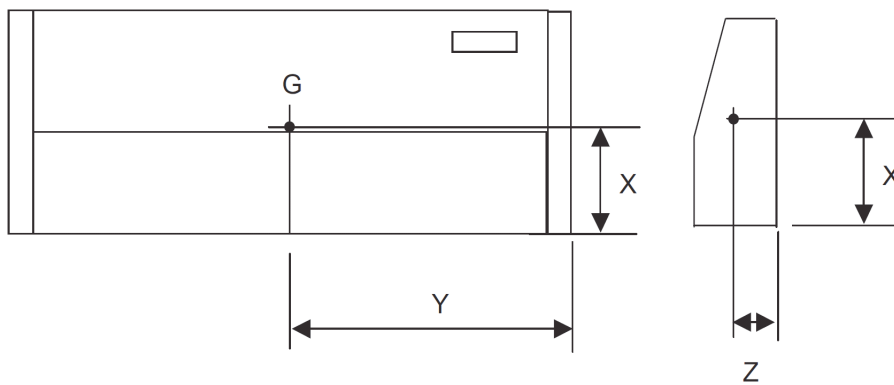
MMC-AP0368HP-E, AP0488HP-E, AP0568HP-E



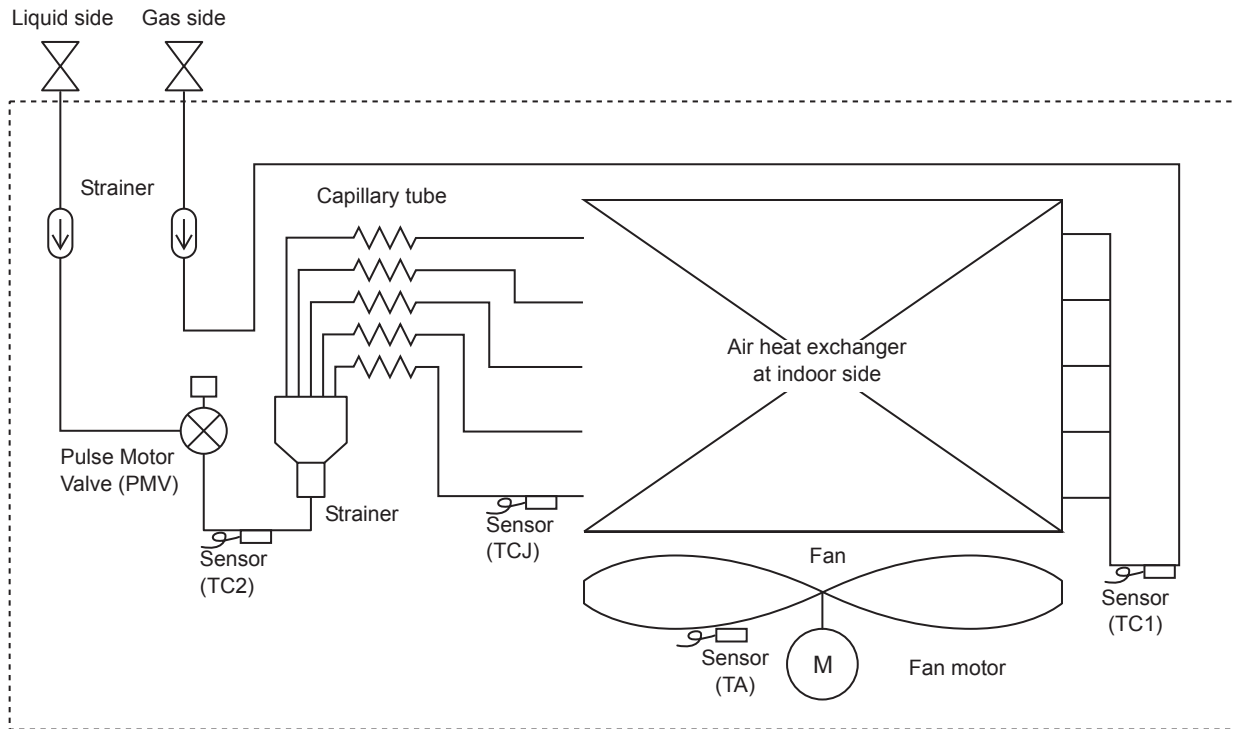
(Unit:mm)

3. Center of gravity

Model name	X (mm)	Y (mm)	Z (mm)	Total weight (kg)
MMC-AP0158HP-E	375	480	100	24
MMC-AP0188HP-E				
MMC-AP0248HP-E	375	620	100	30
MMC-AP0278HP-E				
MMC-AP0368HP-E	375	760	100	39
MMC-AP0478HP-E				
MMC-AP0568HP-E				



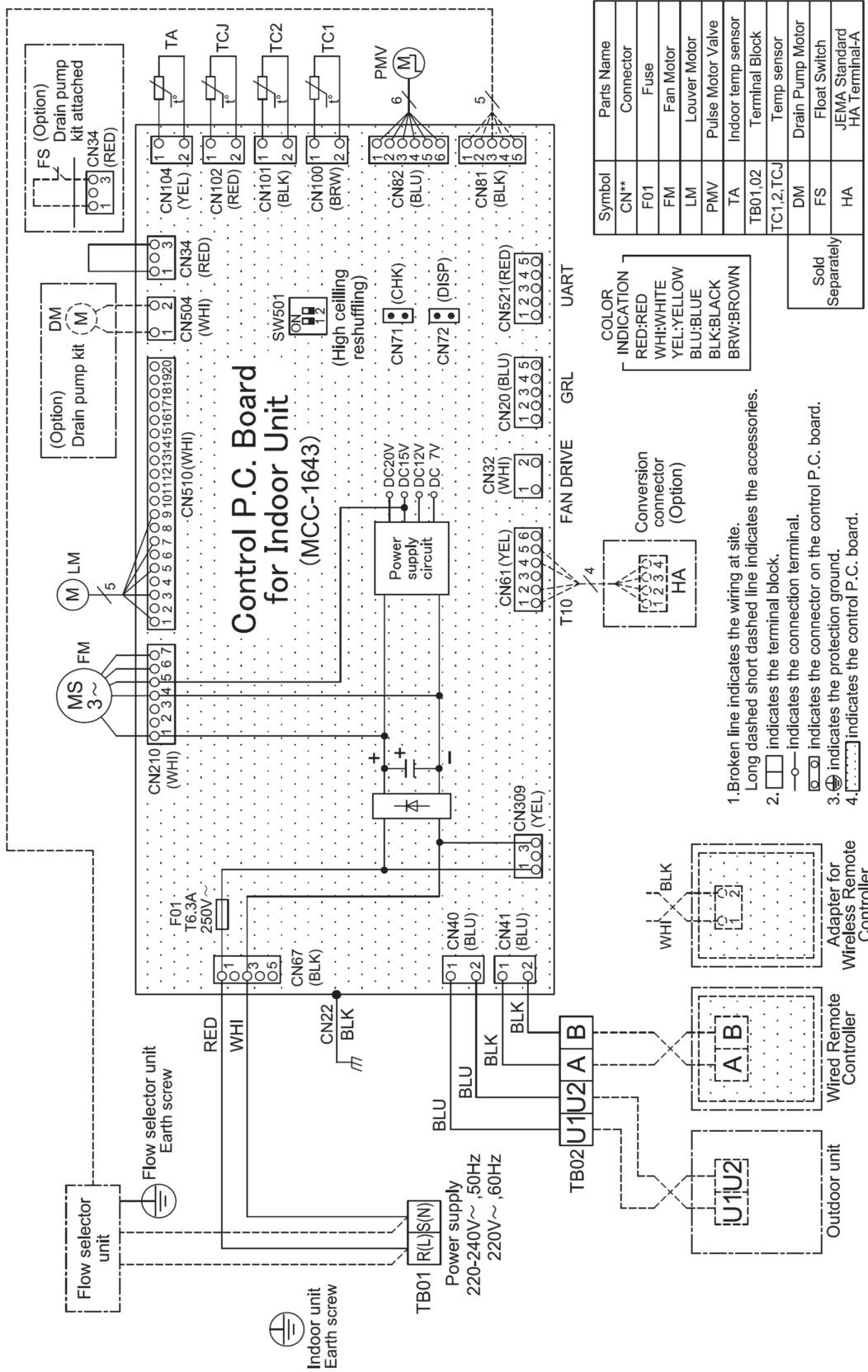
4. Piping diagram



Functional part name		Functional outline
Pulse Motor Valve	PMV	(Connector CN082 (6P): Blue) 1) Controls super heat in cooling operation 2) Controls sub cool in heating operation 3) Recovers refrigerant oil in cooling operation 4) Recovers refrigerant oil in heating operation
Temp. sensor	1. TA	(Connector CN104 (2P): Yellow) 1) Detects indoor suction temperature
	2. TC1	(Connector CN100 (3P): Brown) 1) Controls PMV super heat in cooling operation
	3. TC2	(Connector CN101 (2P): Black) 1) Controls PMV sub cool in heating operation
	4. TCJ	(Connector CN102 (2P): Red) 1) Controls PMV super heat in cooling operation

5. Wiring diagram

MMC-AP0158HP-E, AP0188HP-E, AP0248HP-E, AP0278HP-E, AP0368HP-E, AP0488HP-E, AP0568HP-E



6. Electrical characteristics

1. 50Hz

Model	Nominal Voltage	Voltage Range		Fan Motor		Power Supply	
	(V-Ph-Hz)	Min	Max	kW	FLA	MCA	MOCP
MMC-AP0158HP-E	230-1-50	198	264	0.094	0.41	0.52	15
MMC-AP0188HP-E	230-1-50	198	264	0.094	0.42	0.53	15
MMC-AP0248HP-E	230-1-50	198	264	0.094	0.75	0.93	15
MMC-AP0278HP-E	230-1-50	198	264	0.094	0.75	0.93	15
MMC-AP0368HP-E	230-1-50	198	264	0.139	0.89	1.11	15
MMC-AP0488HP-E	230-1-50	198	264	0.139	0.89	1.11	15
MMC-AP0568HP-E	230-1-50	198	264	0.139	1.14	1.43	15

2. 60Hz

Model	Nominal Voltage	Voltage Range		Fan Motor		Power Supply	
	(V-Ph-Hz)	Min	Max	kW	FLA	MCA	MOCP
MMC-AP0158HP-E	220-1-60	198	242	0.094	0.42	0.53	15
MMC-AP0188HP-E	220-1-60	198	242	0.094	0.44	0.54	15
MMC-AP0248HP-E	220-1-60	198	242	0.094	0.77	0.96	15
MMC-AP0278HP-E	220-1-60	198	242	0.094	0.77	0.96	15
MMC-AP0368HP-E	220-1-60	198	242	0.139	0.92	1.15	15
MMC-AP0488HP-E	220-1-60	198	242	0.139	0.92	1.15	15
MMC-AP0568HP-E	220-1-60	198	242	0.139	1.17	1.46	15

MCA: Minimum Circuit Amps

FLA: Full Load Amps

MOCP: Maximum Over current Protection (Amps)

kW: Fan Motor Rated Output (kW)

7. Sensible capacity table

Ceiling Type (MMC-AP__8HP-E)

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
015	10.0	3.7	2.8	3.9	3.0	4.1	3.1	4.2	3.2	4.4	3.3	4.5	3.4	4.6	3.5	4.9	3.7	5.1	3.9
	12.0	3.7	2.8	3.9	3.0	4.1	3.1	4.2	3.2	4.4	3.3	4.5	3.4	4.6	3.5	4.9	3.7	5.1	3.9
	14.0	3.7	2.8	3.9	3.0	4.1	3.1	4.2	3.2	4.4	3.3	4.5	3.4	4.6	3.5	4.9	3.7	5.1	3.9
	16.0	3.7	2.8	3.9	3.0	4.1	3.1	4.2	3.2	4.4	3.3	4.5	3.4	4.6	3.5	4.9	3.7	5.1	3.9
	18.0	3.7	2.8	3.9	3.0	4.1	3.1	4.2	3.2	4.4	3.3	4.5	3.4	4.6	3.5	4.9	3.7	5.1	3.9
	20.0	3.7	2.8	3.9	3.0	4.1	3.1	4.2	3.2	4.4	3.3	4.5	3.4	4.6	3.5	4.9	3.7	5.1	3.9
	21.0	3.7	2.8	3.9	3.0	4.1	3.1	4.2	3.2	4.4	3.3	4.5	3.4	4.6	3.5	4.9	3.7	5.1	3.9
	23.0	3.7	2.8	3.9	3.0	4.1	3.1	4.2	3.2	4.4	3.3	4.5	3.4	4.6	3.5	4.9	3.7	5.1	3.9
	25.0	3.7	2.8	3.9	3.0	4.1	3.1	4.2	3.2	4.4	3.3	4.5	3.4	4.6	3.5	4.9	3.7	5.1	3.9
	27.0	3.7	2.8	3.9	3.0	4.1	3.1	4.2	3.2	4.4	3.3	4.5	3.4	4.6	3.5	4.9	3.7	5.1	3.9
	29.0	3.7	2.8	3.9	3.0	4.1	3.1	4.2	3.2	4.4	3.3	4.5	3.4	4.6	3.5	4.9	3.7	5.1	3.9
	31.0	3.7	2.8	3.9	3.0	4.1	3.1	4.2	3.2	4.4	3.3	4.5	3.4	4.6	3.5	4.9	3.7	5.1	3.9
	33.0	3.7	2.8	3.9	3.0	4.1	3.1	4.2	3.2	4.4	3.3	4.5	3.4	4.6	3.5	4.9	3.7	5.1	3.9
	35.0	3.7	2.8	3.9	3.0	4.1	3.1	4.2	3.2	4.4	3.3	4.5	3.4	4.6	3.5	4.9	3.7	5.1	3.9
37.0	3.6	2.8	3.8	2.9	4.0	3.0	4.1	3.2	4.3	3.3	4.4	3.4	4.5	3.5	4.8	3.7	5.0	3.8	
39.0	3.6	2.7	3.7	2.8	3.9	3.0	4.1	3.1	4.2	3.2	4.3	3.3	4.4	3.4	4.7	3.6	4.9	3.7	

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
018	10.0	4.6	3.2	4.8	3.3	5.1	3.5	5.3	3.6	5.4	3.8	5.6	3.9	5.8	4.0	6.1	4.2	6.4	4.4
	12.0	4.6	3.2	4.8	3.3	5.1	3.5	5.3	3.6	5.4	3.8	5.6	3.9	5.8	4.0	6.1	4.2	6.4	4.4
	14.0	4.6	3.2	4.8	3.3	5.1	3.5	5.3	3.6	5.4	3.8	5.6	3.9	5.8	4.0	6.1	4.2	6.4	4.4
	16.0	4.6	3.2	4.8	3.3	5.1	3.5	5.3	3.6	5.4	3.8	5.6	3.9	5.8	4.0	6.1	4.2	6.4	4.4
	18.0	4.6	3.2	4.8	3.3	5.1	3.5	5.3	3.6	5.4	3.8	5.6	3.9	5.8	4.0	6.1	4.2	6.4	4.4
	20.0	4.6	3.2	4.8	3.3	5.1	3.5	5.3	3.6	5.4	3.8	5.6	3.9	5.8	4.0	6.1	4.2	6.4	4.4
	21.0	4.6	3.2	4.8	3.3	5.1	3.5	5.3	3.6	5.4	3.8	5.6	3.9	5.8	4.0	6.1	4.2	6.4	4.4
	23.0	4.6	3.2	4.8	3.3	5.1	3.5	5.3	3.6	5.4	3.8	5.6	3.9	5.8	4.0	6.1	4.2	6.4	4.4
	25.0	4.6	3.2	4.8	3.3	5.1	3.5	5.3	3.6	5.4	3.8	5.6	3.9	5.8	4.0	6.1	4.2	6.4	4.4
	27.0	4.6	3.2	4.8	3.3	5.1	3.5	5.3	3.6	5.4	3.8	5.6	3.9	5.8	4.0	6.1	4.2	6.4	4.4
	29.0	4.6	3.2	4.8	3.3	5.1	3.5	5.3	3.6	5.4	3.8	5.6	3.9	5.8	4.0	6.1	4.2	6.4	4.4
	31.0	4.6	3.2	4.8	3.3	5.1	3.5	5.3	3.6	5.4	3.8	5.6	3.9	5.8	4.0	6.1	4.2	6.4	4.4
	33.0	4.6	3.2	4.8	3.3	5.1	3.5	5.3	3.6	5.4	3.8	5.6	3.9	5.8	4.0	6.1	4.2	6.4	4.4
	35.0	4.6	3.2	4.8	3.3	5.1	3.5	5.3	3.6	5.4	3.8	5.6	3.9	5.8	4.0	6.1	4.2	6.4	4.4
37.0	4.5	3.1	4.7	3.3	5.0	3.4	5.2	3.6	5.3	3.7	5.5	3.8	5.7	3.9	6.0	4.1	6.3	4.3	
39.0	4.4	3.1	4.7	3.2	4.9	3.4	5.1	3.5	5.2	3.6	5.4	3.7	5.5	3.8	5.9	4.0	6.1	4.2	

TC:Total Capacity [kW]
SHC:Sensible Heat Capacity [kW]

Ceiling Type (MMC-AP__8HP-E)

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
024	10.0	5.8	4.3	6.1	4.5	6.4	4.8	6.7	4.9	6.9	5.1	7.1	5.3	7.3	5.4	7.7	5.7	8.1	6.0
	12.0	5.8	4.3	6.1	4.5	6.4	4.8	6.7	4.9	6.9	5.1	7.1	5.3	7.3	5.4	7.7	5.7	8.1	6.0
	14.0	5.8	4.3	6.1	4.5	6.4	4.8	6.7	4.9	6.9	5.1	7.1	5.3	7.3	5.4	7.7	5.7	8.1	6.0
	16.0	5.8	4.3	6.1	4.5	6.4	4.8	6.7	4.9	6.9	5.1	7.1	5.3	7.3	5.4	7.7	5.7	8.1	6.0
	18.0	5.8	4.3	6.1	4.5	6.4	4.8	6.7	4.9	6.9	5.1	7.1	5.3	7.3	5.4	7.7	5.7	8.1	6.0
	20.0	5.8	4.3	6.1	4.5	6.4	4.8	6.7	4.9	6.9	5.1	7.1	5.3	7.3	5.4	7.7	5.7	8.1	6.0
	21.0	5.8	4.3	6.1	4.5	6.4	4.8	6.7	4.9	6.9	5.1	7.1	5.3	7.3	5.4	7.7	5.7	8.1	6.0
	23.0	5.8	4.3	6.1	4.5	6.4	4.8	6.7	4.9	6.9	5.1	7.1	5.3	7.3	5.4	7.7	5.7	8.1	6.0
	25.0	5.8	4.3	6.1	4.5	6.4	4.8	6.7	4.9	6.9	5.1	7.1	5.3	7.3	5.4	7.7	5.7	8.1	6.0
	27.0	5.8	4.3	6.1	4.5	6.4	4.8	6.7	4.9	6.9	5.1	7.1	5.3	7.3	5.4	7.7	5.7	8.1	6.0
	29.0	5.8	4.3	6.1	4.5	6.4	4.8	6.7	4.9	6.9	5.1	7.1	5.3	7.3	5.4	7.7	5.7	8.1	6.0
	31.0	5.8	4.3	6.1	4.5	6.4	4.8	6.7	4.9	6.9	5.1	7.1	5.3	7.3	5.4	7.7	5.7	8.1	6.0
	33.0	5.8	4.3	6.1	4.5	6.4	4.8	6.7	4.9	6.9	5.1	7.1	5.3	7.3	5.4	7.7	5.7	8.1	6.0
	35.0	5.8	4.3	6.1	4.5	6.4	4.8	6.7	4.9	6.9	5.1	7.1	5.3	7.3	5.4	7.7	5.7	8.1	6.0
37.0	5.7	4.2	6.0	4.5	6.3	4.7	6.5	4.8	6.8	5.0	7.0	5.2	7.2	5.3	7.6	5.6	7.9	5.9	
39.0	5.6	4.1	5.9	4.4	6.2	4.6	6.4	4.7	6.6	4.9	6.8	5.0	7.0	5.2	7.4	5.5	7.8	5.8	

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
027	10.0	6.6	4.7	6.9	5.0	7.3	5.2	7.5	5.4	7.8	5.6	8.0	5.8	8.2	5.9	8.7	6.3	9.1	6.6
	12.0	6.6	4.7	6.9	5.0	7.3	5.2	7.5	5.4	7.8	5.6	8.0	5.8	8.2	5.9	8.7	6.3	9.1	6.6
	14.0	6.6	4.7	6.9	5.0	7.3	5.2	7.5	5.4	7.8	5.6	8.0	5.8	8.2	5.9	8.7	6.3	9.1	6.6
	16.0	6.6	4.7	6.9	5.0	7.3	5.2	7.5	5.4	7.8	5.6	8.0	5.8	8.2	5.9	8.7	6.3	9.1	6.6
	18.0	6.6	4.7	6.9	5.0	7.3	5.2	7.5	5.4	7.8	5.6	8.0	5.8	8.2	5.9	8.7	6.3	9.1	6.6
	20.0	6.6	4.7	6.9	5.0	7.3	5.2	7.5	5.4	7.8	5.6	8.0	5.8	8.2	5.9	8.7	6.3	9.1	6.6
	21.0	6.6	4.7	6.9	5.0	7.3	5.2	7.5	5.4	7.8	5.6	8.0	5.8	8.2	5.9	8.7	6.3	9.1	6.6
	23.0	6.6	4.7	6.9	5.0	7.3	5.2	7.5	5.4	7.8	5.6	8.0	5.8	8.2	5.9	8.7	6.3	9.1	6.6
	25.0	6.6	4.7	6.9	5.0	7.3	5.2	7.5	5.4	7.8	5.6	8.0	5.8	8.2	5.9	8.7	6.3	9.1	6.6
	27.0	6.6	4.7	6.9	5.0	7.3	5.2	7.5	5.4	7.8	5.6	8.0	5.8	8.2	5.9	8.7	6.3	9.1	6.6
	29.0	6.6	4.7	6.9	5.0	7.3	5.2	7.5	5.4	7.8	5.6	8.0	5.8	8.2	5.9	8.7	6.3	9.1	6.6
	31.0	6.6	4.7	6.9	5.0	7.3	5.2	7.5	5.4	7.8	5.6	8.0	5.8	8.2	5.9	8.7	6.3	9.1	6.6
	33.0	6.6	4.7	6.9	5.0	7.3	5.2	7.5	5.4	7.8	5.6	8.0	5.8	8.2	5.9	8.7	6.3	9.1	6.6
	35.0	6.6	4.7	6.9	5.0	7.3	5.2	7.5	5.4	7.8	5.6	8.0	5.8	8.2	5.9	8.7	6.3	9.1	6.6
37.0	6.4	4.6	6.8	4.9	7.1	5.1	7.4	5.3	7.6	5.5	7.8	5.7	8.1	5.8	8.5	6.2	8.9	6.4	
39.0	6.3	4.5	6.6	4.8	7.0	5.0	7.2	5.2	7.5	5.4	7.7	5.5	7.9	5.7	8.4	6.0	8.8	6.3	

TC: Total Capacity [kW]
SHC: Sensible Heat Capacity [kW]

Ceiling Type (MMC-AP__8HP-E)

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
036	10.0	9.2	6.2	9.7	6.5	10.2	6.8	10.5	7.0	10.9	7.3	11.2	7.5	11.5	7.7	12.2	8.2	12.8	8.5
	12.0	9.2	6.2	9.7	6.5	10.2	6.8	10.5	7.0	10.9	7.3	11.2	7.5	11.5	7.7	12.2	8.2	12.8	8.5
	14.0	9.2	6.2	9.7	6.5	10.2	6.8	10.5	7.0	10.9	7.3	11.2	7.5	11.5	7.7	12.2	8.2	12.8	8.5
	16.0	9.2	6.2	9.7	6.5	10.2	6.8	10.5	7.0	10.9	7.3	11.2	7.5	11.5	7.7	12.2	8.2	12.8	8.5
	18.0	9.2	6.2	9.7	6.5	10.2	6.8	10.5	7.0	10.9	7.3	11.2	7.5	11.5	7.7	12.2	8.2	12.8	8.5
	20.0	9.2	6.2	9.7	6.5	10.2	6.8	10.5	7.0	10.9	7.3	11.2	7.5	11.5	7.7	12.2	8.2	12.8	8.5
	21.0	9.2	6.2	9.7	6.5	10.2	6.8	10.5	7.0	10.9	7.3	11.2	7.5	11.5	7.7	12.2	8.2	12.8	8.5
	23.0	9.2	6.2	9.7	6.5	10.2	6.8	10.5	7.0	10.9	7.3	11.2	7.5	11.5	7.7	12.2	8.2	12.8	8.5
	25.0	9.2	6.2	9.7	6.5	10.2	6.8	10.5	7.0	10.9	7.3	11.2	7.5	11.5	7.7	12.2	8.2	12.8	8.5
	27.0	9.2	6.2	9.7	6.5	10.2	6.8	10.5	7.0	10.9	7.3	11.2	7.5	11.5	7.7	12.2	8.2	12.8	8.5
	29.0	9.2	6.2	9.7	6.5	10.2	6.8	10.5	7.0	10.9	7.3	11.2	7.5	11.5	7.7	12.2	8.2	12.8	8.5
	31.0	9.2	6.2	9.7	6.5	10.2	6.8	10.5	7.0	10.9	7.3	11.2	7.5	11.5	7.7	12.2	8.2	12.8	8.5
	33.0	9.2	6.2	9.7	6.5	10.2	6.8	10.5	7.0	10.9	7.3	11.2	7.5	11.5	7.7	12.2	8.2	12.8	8.5
	35.0	9.2	6.2	9.7	6.5	10.2	6.8	10.5	7.0	10.9	7.3	11.2	7.5	11.5	7.7	12.2	8.2	12.8	8.5
37.0	9.0	6.0	9.5	6.4	10.0	6.7	10.3	6.9	10.7	7.2	11.0	7.4	11.3	7.6	12.0	8.0	12.5	8.4	
39.0	8.8	5.9	9.3	6.2	9.8	6.5	10.1	6.8	10.5	7.0	10.8	7.2	11.1	7.4	11.7	7.9	12.3	8.2	

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
048	10.0	11.5	7.4	12.1	7.7	12.7	8.1	13.1	8.4	13.6	8.7	14.0	9.0	14.4	9.2	15.3	9.8	16.0	10.2
	12.0	11.5	7.4	12.1	7.7	12.7	8.1	13.1	8.4	13.6	8.7	14.0	9.0	14.4	9.2	15.3	9.8	16.0	10.2
	14.0	11.5	7.4	12.1	7.7	12.7	8.1	13.1	8.4	13.6	8.7	14.0	9.0	14.4	9.2	15.3	9.8	16.0	10.2
	16.0	11.5	7.4	12.1	7.7	12.7	8.1	13.1	8.4	13.6	8.7	14.0	9.0	14.4	9.2	15.3	9.8	16.0	10.2
	18.0	11.5	7.4	12.1	7.7	12.7	8.1	13.1	8.4	13.6	8.7	14.0	9.0	14.4	9.2	15.3	9.8	16.0	10.2
	20.0	11.5	7.4	12.1	7.7	12.7	8.1	13.1	8.4	13.6	8.7	14.0	9.0	14.4	9.2	15.3	9.8	16.0	10.2
	21.0	11.5	7.4	12.1	7.7	12.7	8.1	13.1	8.4	13.6	8.7	14.0	9.0	14.4	9.2	15.3	9.8	16.0	10.2
	23.0	11.5	7.4	12.1	7.7	12.7	8.1	13.1	8.4	13.6	8.7	14.0	9.0	14.4	9.2	15.3	9.8	16.0	10.2
	25.0	11.5	7.4	12.1	7.7	12.7	8.1	13.1	8.4	13.6	8.7	14.0	9.0	14.4	9.2	15.3	9.8	16.0	10.2
	27.0	11.5	7.4	12.1	7.7	12.7	8.1	13.1	8.4	13.6	8.7	14.0	9.0	14.4	9.2	15.3	9.8	16.0	10.2
	29.0	11.5	7.4	12.1	7.7	12.7	8.1	13.1	8.4	13.6	8.7	14.0	9.0	14.4	9.2	15.3	9.8	16.0	10.2
	31.0	11.5	7.4	12.1	7.7	12.7	8.1	13.1	8.4	13.6	8.7	14.0	9.0	14.4	9.2	15.3	9.8	16.0	10.2
	33.0	11.5	7.4	12.1	7.7	12.7	8.1	13.1	8.4	13.6	8.7	14.0	9.0	14.4	9.2	15.3	9.8	16.0	10.2
	35.0	11.5	7.4	12.1	7.7	12.7	8.1	13.1	8.4	13.6	8.7	14.0	9.0	14.4	9.2	15.3	9.8	16.0	10.2
37.0	11.3	7.2	11.9	7.6	12.5	8.0	12.9	8.3	13.3	8.5	13.7	8.8	14.1	9.0	15.0	9.6	15.6	10.0	
39.0	11.1	7.1	11.8	7.4	12.2	7.8	12.6	8.1	13.1	8.4	13.5	8.6	13.8	8.9	14.7	9.4	15.3	9.8	

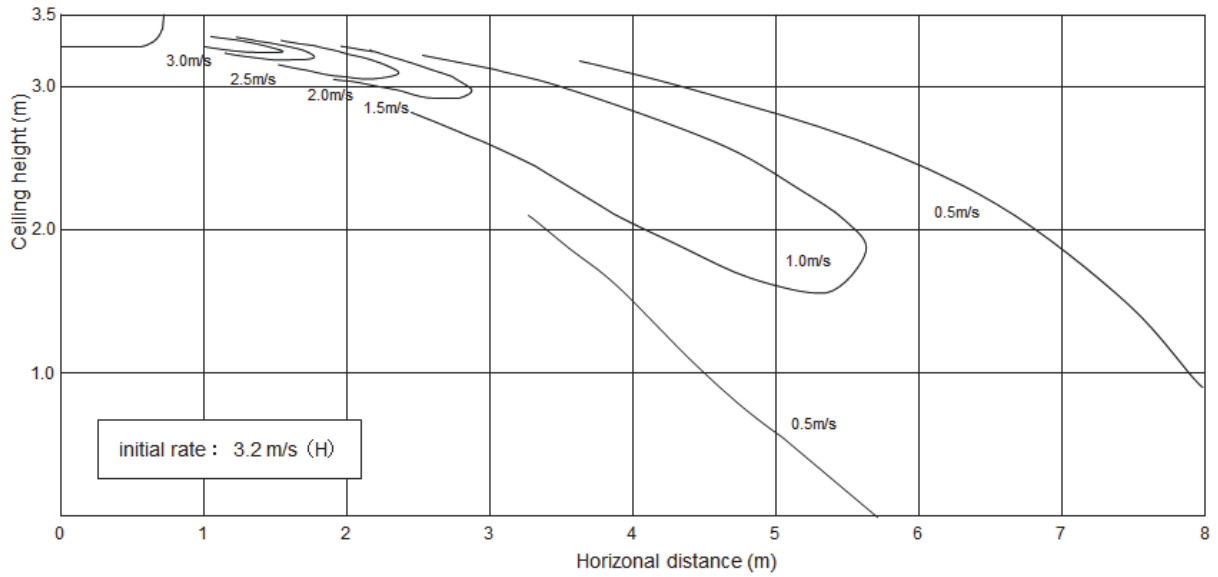
unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
056	10.0	13.1	8.4	13.8	8.8	14.5	9.3	15.0	9.6	15.5	9.9	16.0	10.2	16.5	10.5	17.4	11.2	18.2	11.7
	12.0	13.1	8.4	13.8	8.8	14.5	9.3	15.0	9.6	15.5	9.9	16.0	10.2	16.5	10.5	17.4	11.2	18.2	11.7
	14.0	13.1	8.4	13.8	8.8	14.5	9.3	15.0	9.6	15.5	9.9	16.0	10.2	16.5	10.5	17.4	11.2	18.2	11.7
	16.0	13.1	8.4	13.8	8.8	14.5	9.3	15.0	9.6	15.5	9.9	16.0	10.2	16.5	10.5	17.4	11.2	18.2	11.7
	18.0	13.1	8.4	13.8	8.8	14.5	9.3	15.0	9.6	15.5	9.9	16.0	10.2	16.5	10.5	17.4	11.2	18.2	11.7
	20.0	13.1	8.4	13.8	8.8	14.5	9.3	15.0	9.6	15.5	9.9	16.0	10.2	16.5	10.5	17.4	11.2	18.2	11.7
	21.0	13.1	8.4	13.8	8.8	14.5	9.3	15.0	9.6	15.5	9.9	16.0	10.2	16.5	10.5	17.4	11.2	18.2	11.7
	23.0	13.1	8.4	13.8	8.8	14.5	9.3	15.0	9.6	15.5	9.9	16.0	10.2	16.5	10.5	17.4	11.2	18.2	11.7
	25.0	13.1	8.4	13.8	8.8	14.5	9.3	15.0	9.6	15.5	9.9	16.0	10.2	16.5	10.5	17.4	11.2	18.2	11.7
	27.0	13.1	8.4	13.8	8.8	14.5	9.3	15.0	9.6	15.5	9.9	16.0	10.2	16.5	10.5	17.4	11.2	18.2	11.7
	29.0	13.1	8.4	13.8	8.8	14.5	9.3	15.0	9.6	15.5	9.9	16.0	10.2	16.5	10.5	17.4	11.2	18.2	11.7
	31.0	13.1	8.4	13.8	8.8	14.5	9.3	15.0	9.6	15.5	9.9	16.0	10.2	16.5	10.5	17.4	11.2	18.2	11.7
	33.0	13.1	8.4	13.8	8.8	14.5	9.3	15.0	9.6	15.5	9.9	16.0	10.2	16.5	10.5	17.4	11.2	18.2	11.7
	35.0	13.1	8.4	13.8	8.8	14.5	9.3	15.0	9.6	15.5	9.9	16.0	10.2	16.5	10.5	17.4	11.2	18.2	11.7
37.0	12.9	8.3	13.6	8.7	14.2	9.1	14.7	9.4	15.2	9.8	15.7	10.0	16.1	10.3	17.1	10.9	17.9	11.4	
39.0	12.6	8.1	13.3	8.5	13.9	8.9	14.4	9.2	14.9	9.6	15.4	9.8	15.8	10.1	16.7	10.7	17.5	11.2	

TC:Total Capacity [kW]
SHC:Sensible Heat Capacity [kW]

8. Air flow distance chart

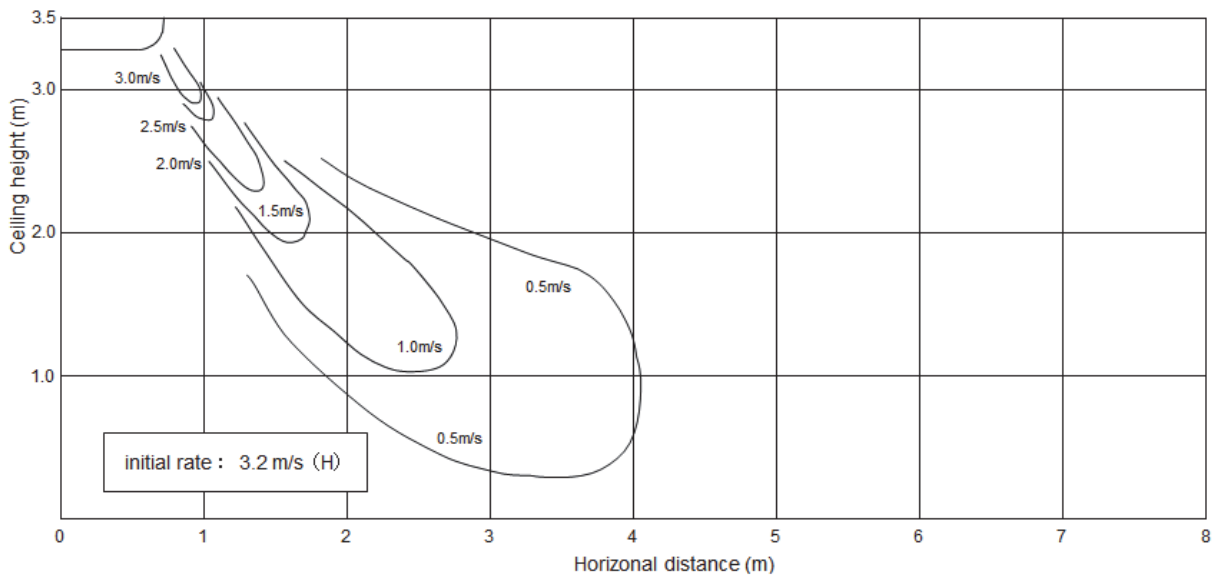
MMC-AP0158HP-E

Cooling

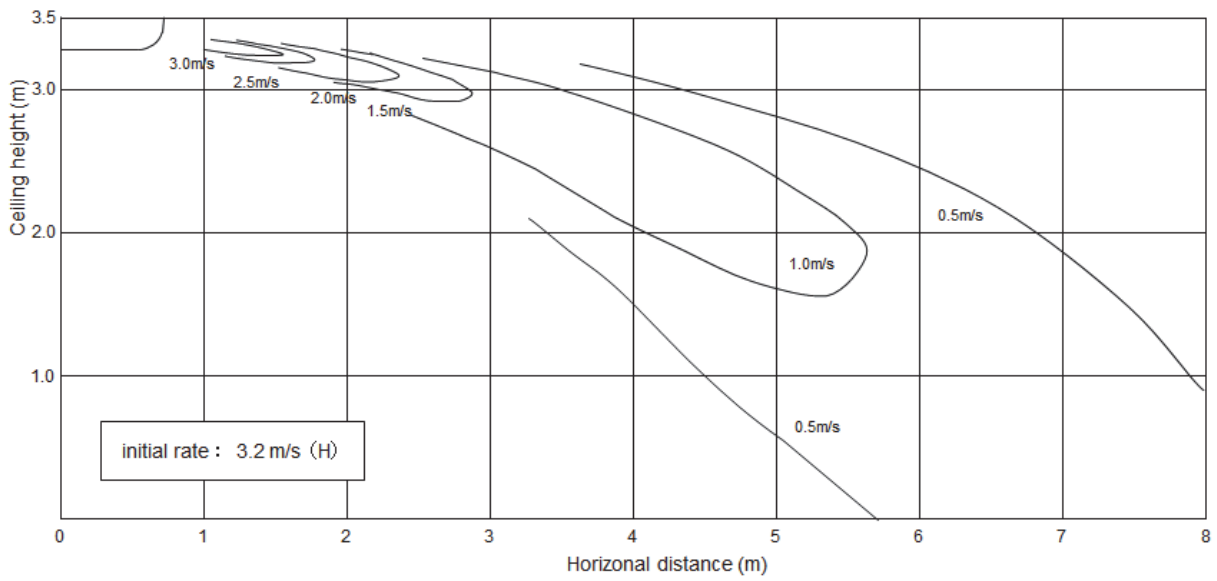


MMC-AP0158HP-E

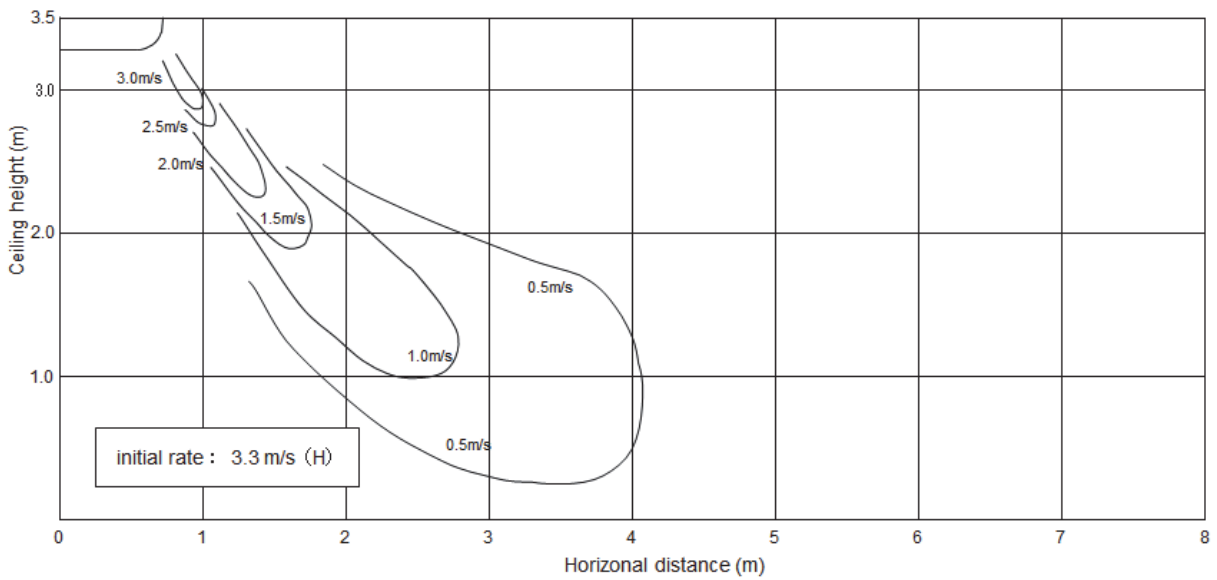
Heating



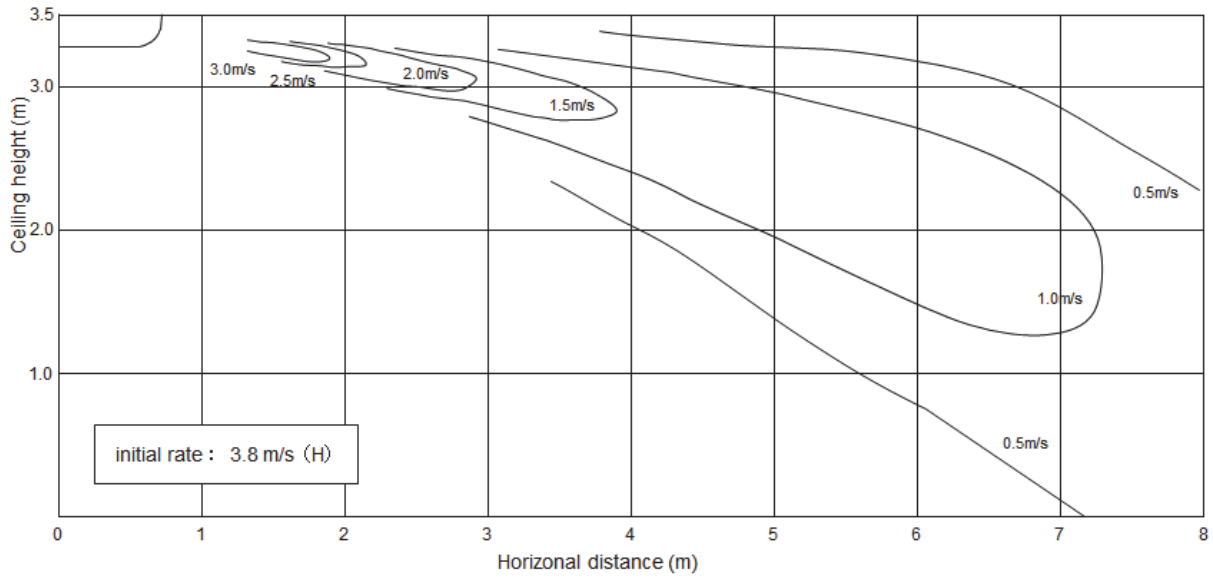
MMC-AP0188HP-E Cooling



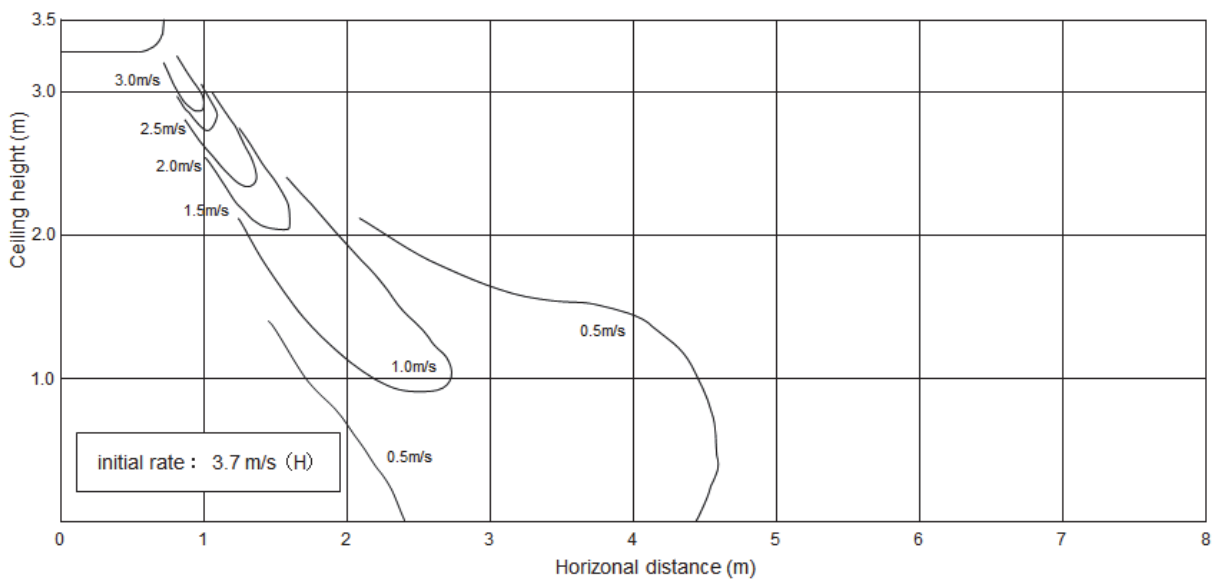
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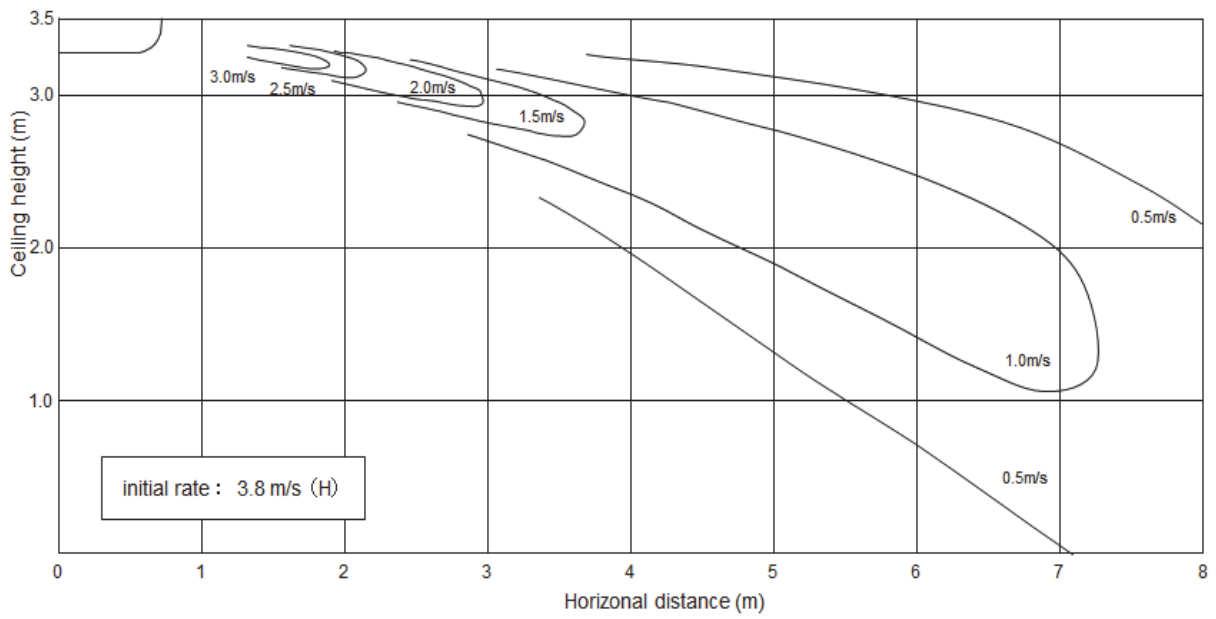
MMC-AP0248HP-E, AP0278HP-E
Cooling



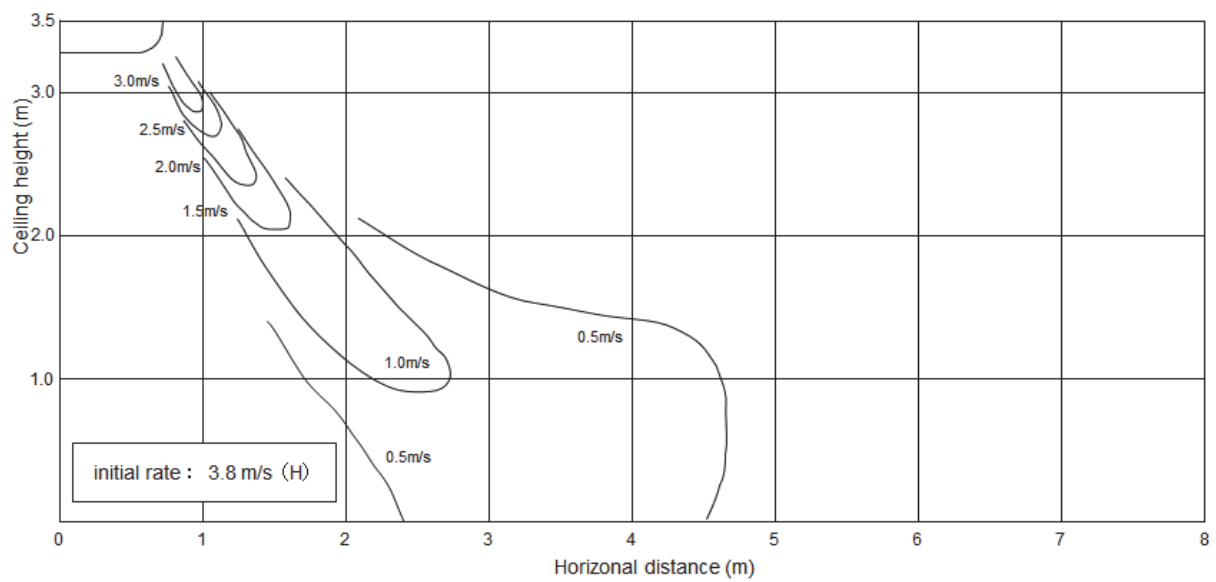
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Heating



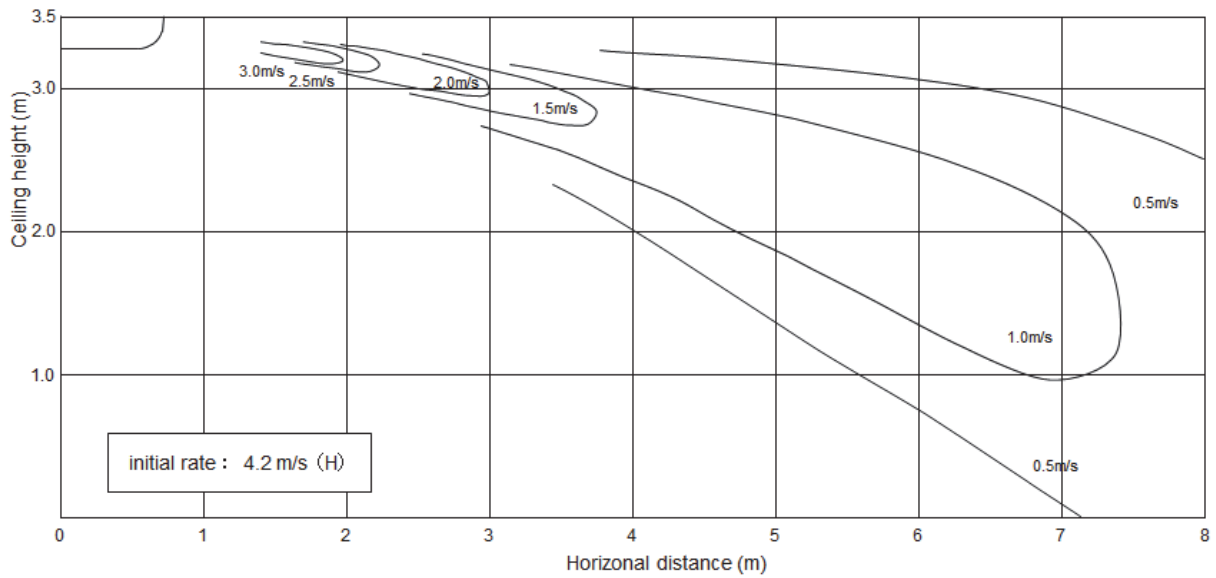
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Cooling



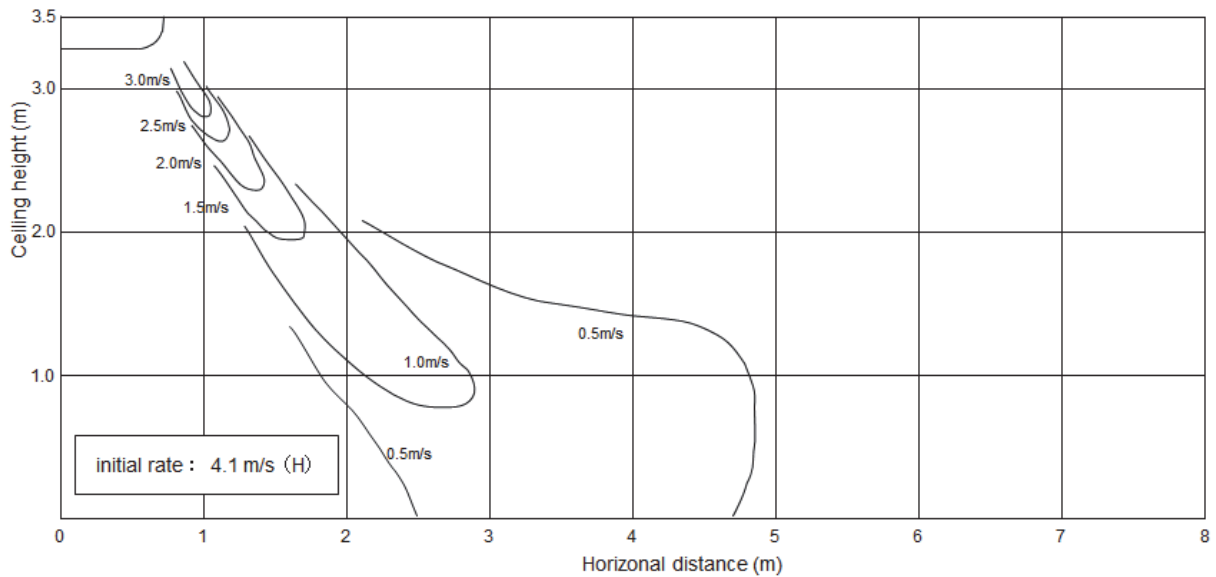
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Heating



MMC-AP0568HP-E Cooling

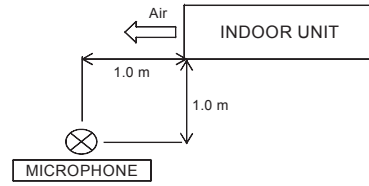


MMC-AP0568HP-E Heating



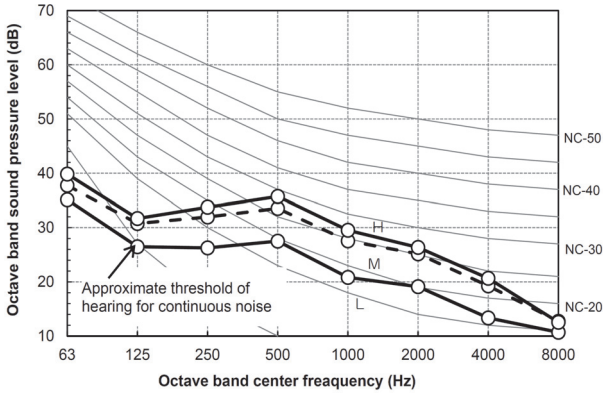
9. Sound data

Sound pressure spectrum



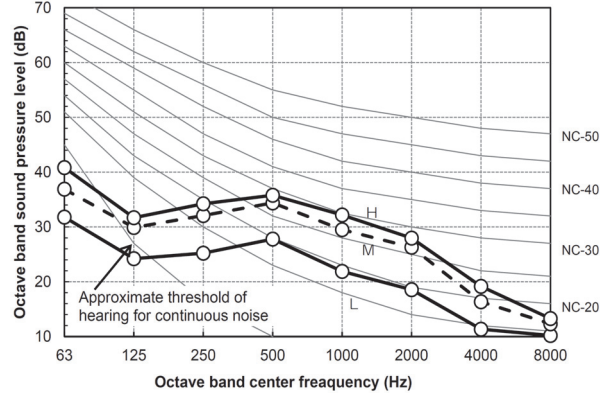
MMC-AP0158HP-E

Fan tap	H	M	L
Sound pressure level (dB(A))	36.0	34.0	28.0



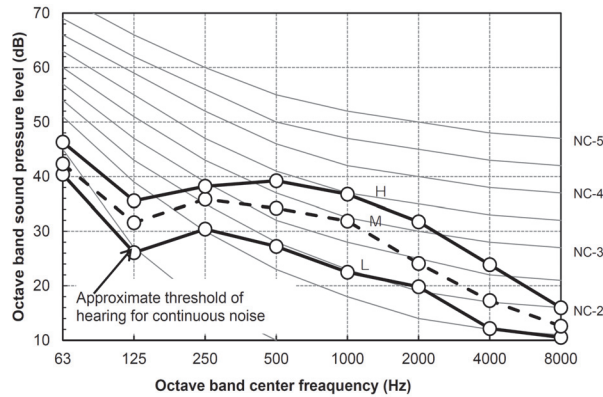
MMC-AP0188HP-E

Fan tap	H	M	L
Sound pressure level (dB(A))	37.0	35.0	28.0



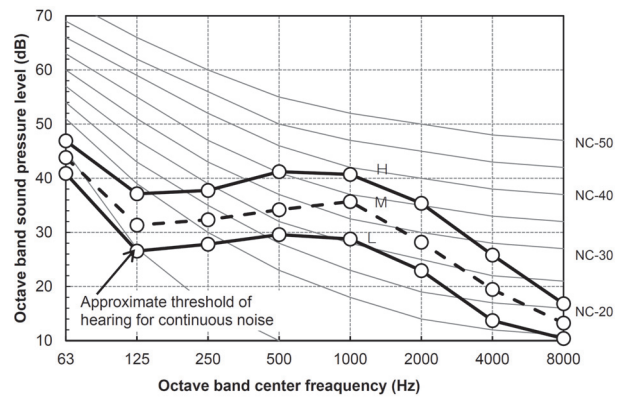
MMC-AP0248HP-E, AP0278HP-E

Fan tap	H	M	L
Sound pressure level (dB(A))	41.0	36.0	29.0



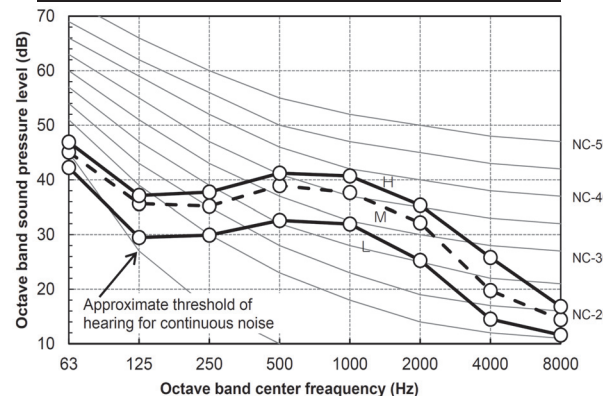
MMC-AP0368HP-E

Fan tap	H	M	L
Sound pressure level (dB(A))	44.0	38.0	32.0



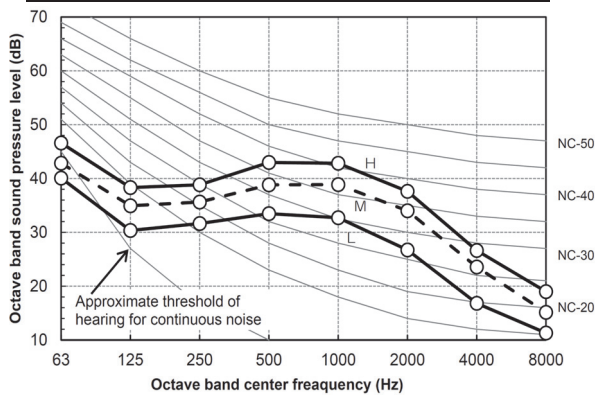
MMC-AP0488HP-E

Fan tap	H	M	L
Sound pressure level (dB(A))	44.0	41.0	35.0



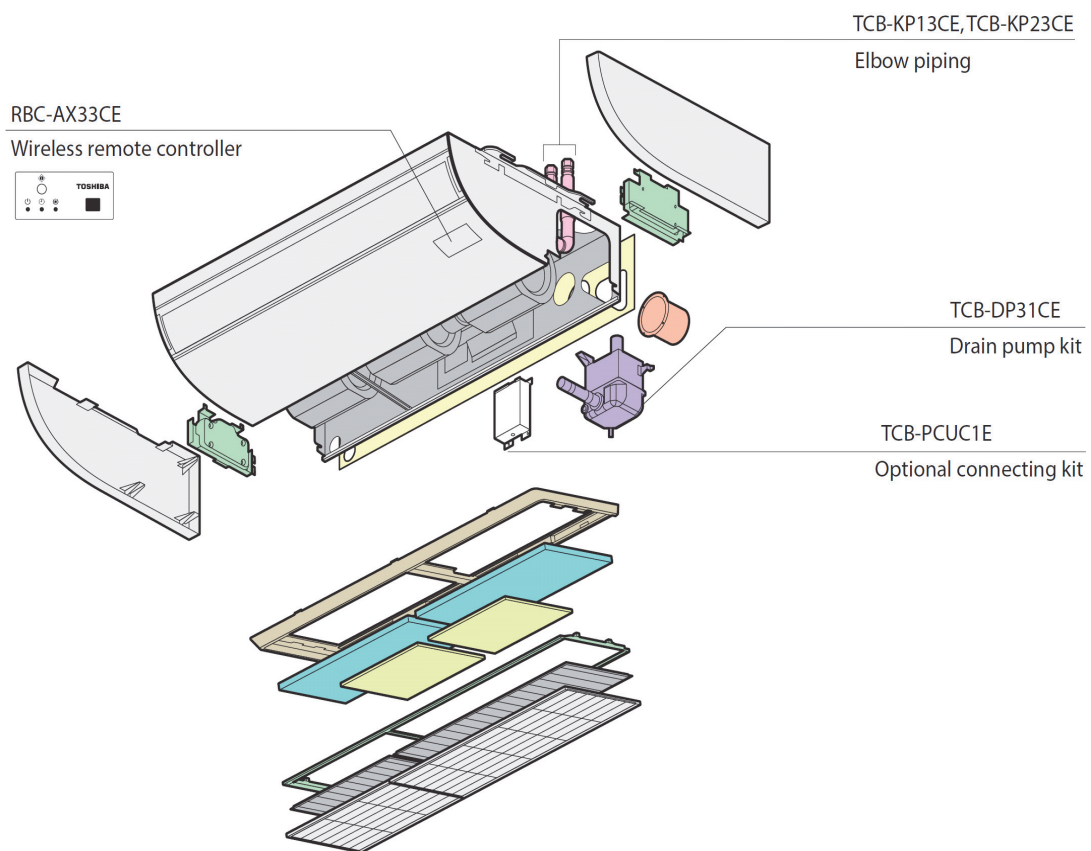
MMC-AP0568HP-E

Fan tap	H	M	L
Sound pressure level (dB(A))	46.0	42.0	36.0



10. Accessories

Parts name	Model name	Applied Model	Feature	Remark
Wireless Remote Controller kit	RBC-AX33CE	MMC-AP0158 to 0568HP-E	-	
Drain pump kit	TCB-DP31CE	MMC-AP0158 to 0568HP-E	Antibacterial glass is built into Drain pump kit	
Elbow piping kit	TCB-KP13CE	MMC-AP0158 to 0188HP-E	It is necessary for installation of Drain pump kit	Use with TCB-DP31CE
	TCB-KP23CE	MMC-AP0248 to 0568HP-E		
Option connecting kit	TCB-PCUC1E	MMC-AP0158 to 0568HP-E	For external I/O signal without local relay preparation	



TOSHIBA CARRIER (THAILAND)

144/9 Moo 5, Bangkadi Industrial Park, Tivanon Road, Tambol Bangkadi,
Amphur Muang, Pathumthani 12000, Thailand

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