

Floor Standing Type

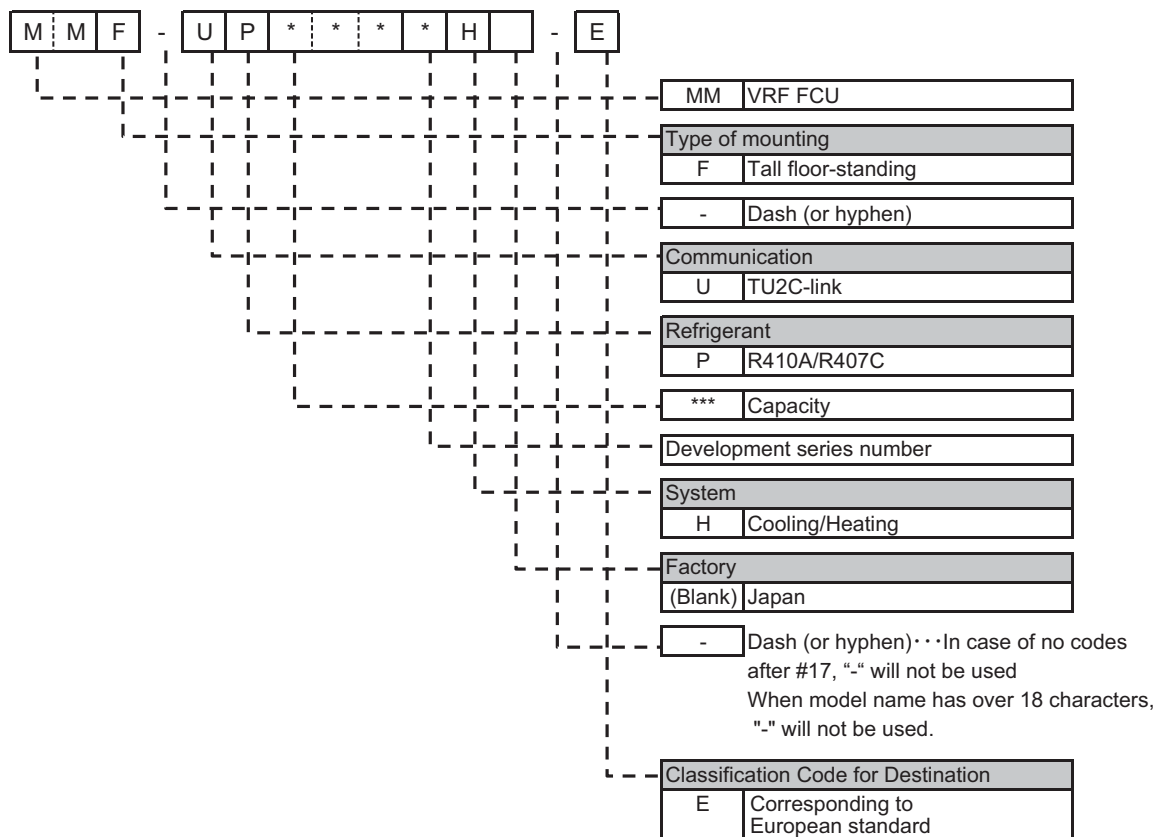
MMF-UP0151H-E / MMF-UP0181H-E
MMF-UP0241H-E / MMF-UP0271H-E
MMF-UP0361H-E / MMF-UP0481H-E
MMF-UP0561H-E



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Allocation standard of model name



1. Specifications



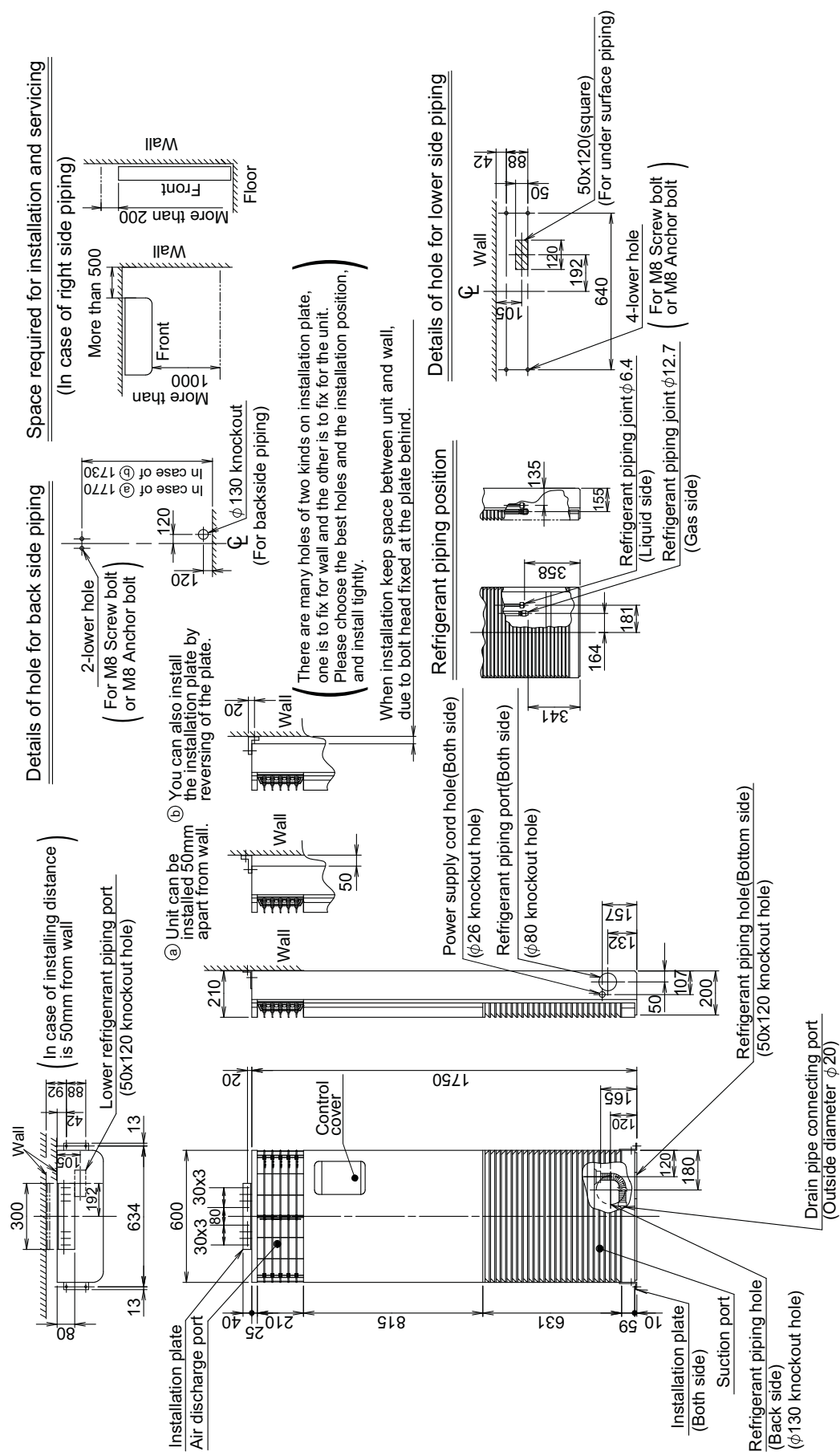
Model name		MMF-	UP0151H-E	UP0181H-E	UP0241H-E	UP0271H-E	UP0361H-E	UP0481H-E	UP0561H-E
Cooling/Heating capacity (*1)		kW	4.5 / 5.0	5.6 / 6.3	7.1 / 8.0	8.0 / 9.0	11.2 / 12.5	14.0 / 16.0	16.0 / 18.0
Electical characteristics	Power supply		1 phase 220-240V 50Hz/ 1 phase 208-230V 60Hz						
	Running current	A	0.37 / 0.38		0.55 / 0.58		0.82 / 0.86	0.97 / 1.02	
	Power consumption	kW	0.053 / 0.053		0.087 / 0.087		0.133 / 0.133	0.158 / 0.158	
	Starting current	A	0.48 / 0.50		0.71 / 0.75		1.06 / 1.11	1.27 / 1.33	
Appearance			Silky shade (Munsell 1Y 8.5 / 8.0)						
Outer dimension	Height	mm	1750				1750		
	Width	mm	600				600		
	Depth	mm	210				390		
Total weight		kg	46		47		61		
Heat exchanger			Finned tube						
Soundproof/Heat-insulating material			Non-flammable insulation						
Fan unit	Fan		Centrifugal fan						
	Standard air flow (H/M+/M/L+/L)	m³/h	820/760/700/640/600		930/830/770/700/640		1660/1550/1420/1190/1170	1760/1630/1480/1370/1350	
	Motor output	W	62				109		
Air filter			Standard filter (Simple filter)						
Controller			Remote controller (Sold separately)						
Connecting pipe	Gas side	mm	Ø12.7		Ø15.9				
	Liquid side	mm	Ø6.4		Ø9.5				
	Drain port (Nominal dia.)	mm	20 (polyvinyl chloride tube)						
Sound pressure level (H/M+/M/L+/L)		dB(A)	46 / 44 / 42 / 40 / 38		50 / 47 / 45 / 43 / 41		51 / 49 / 46 / 44 / 41	53 / 51 / 48 / 46 / 45	
Sound power level (H/M+/M/L+/L)		dB(A)	60 / 58 / 56 / 54 / 52		64 / 61 / 60 / 57 / 54		65 / 63 / 61 / 58 / 56	67 / 65 / 62 / 60 / 59	

Note

(*1) Rated conditions Cooling : Indoor 27 degC Dry Bulb / 19 degC Wet Bulb, Outdoor 35 degC Dry Bulb.
 Heating : Indoor 20 degC Dry Bulb, Outdoor 7 degC Dry Bulb / 6 degC Wet Bulb.
 Based on equivalent piping length of 7.5 m and piping height difference of 0 m.

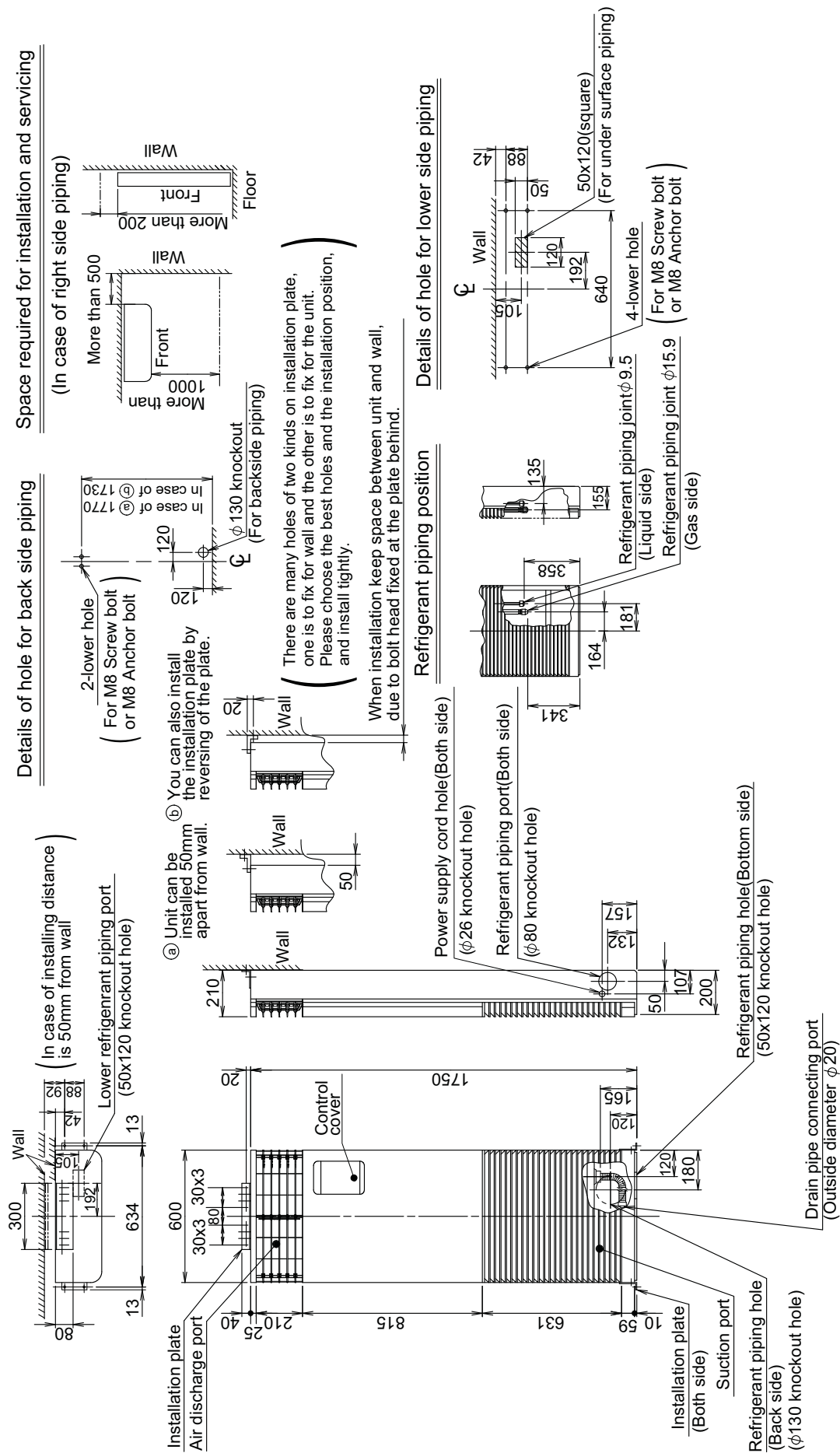
2. Dimensions

MMF-UP0151H-E, MMF-UP0181H-E



(Unit:mm)

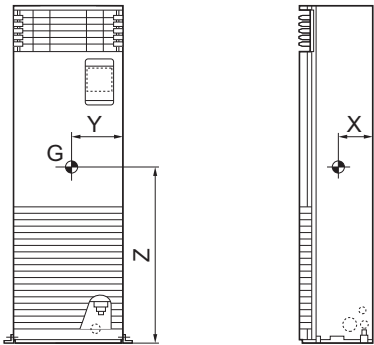
MMF-UP0241H-E, MMF-UP0271H-E



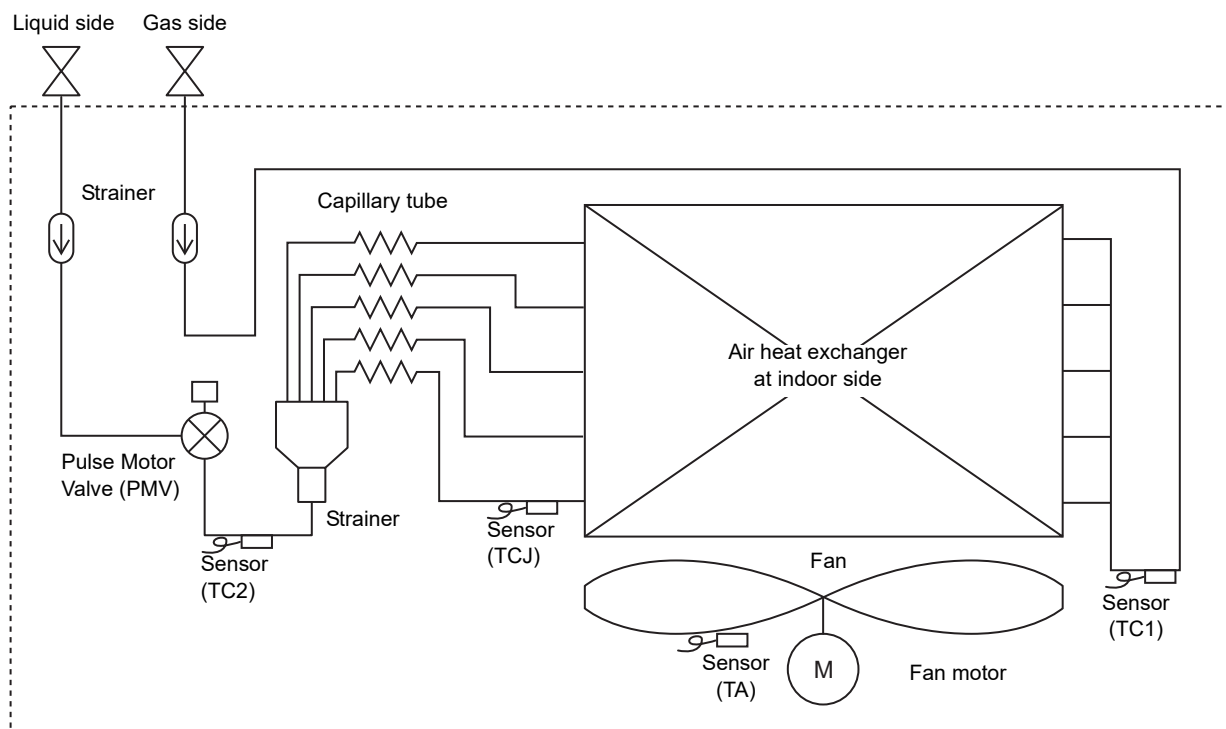
(Unit:mm)

3. Center of gravity

Model name	X(mm)	Y(mm)	Z(mm)	Total weight(kg)
MMF-UP0151H-E	90	290	830	46
MMF-UP0181H-E				47
MMF-UP0241H-E				
MMF-UP0271H-E				
MMF-UP0361H-E	180	295	860	61
MMF-UP0481H-E				
MMF-UP0561H-E				



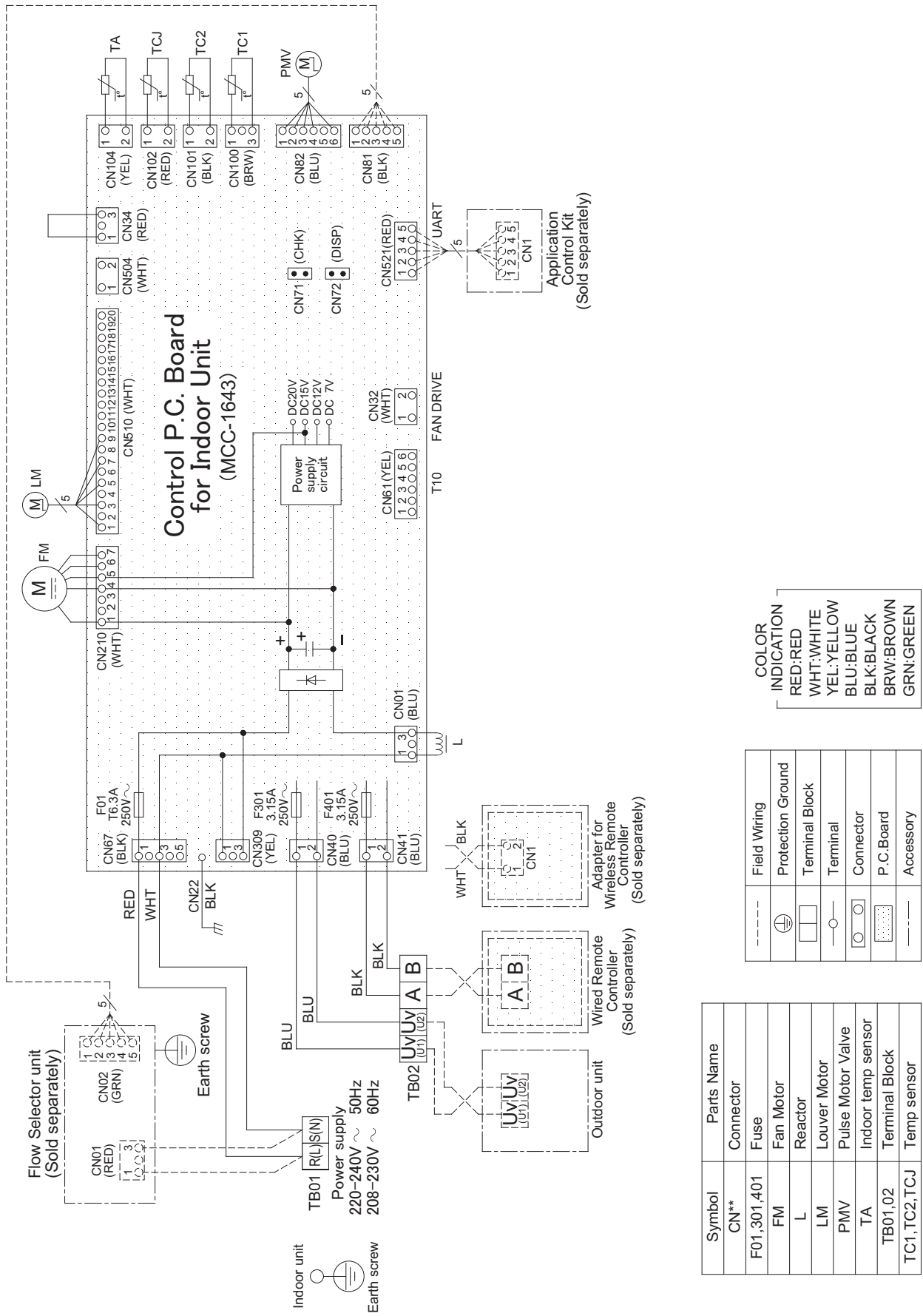
4. Piping diagram



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

MMF-UP0151H-E, MMF-UP0181H-E, MMF-UP0241H-E, MMF-UP0271H-E, MMF-UP0361H-E, MMF-UP0481H-E, MMF-UP0561H-E



6. Electrical characteristics

50Hz

Type	Model name	Normal Voltage (V-Ph-Hz)	Voltage Range		Fan Motor		Power Supply	
			Min.	Max.	kW	FLA	MCA	MOCP
Floor Standing Type	MMF-UP0151H-E	230-1-50	198	264	0.062	0.42	0.53	15
	MMF-UP0181H-E	230-1-50	198	264	0.062	0.42	0.53	15
	MMF-UP0241H-E	230-1-50	198	264	0.062	0.63	0.79	15
	MMF-UP0271H-E	230-1-50	198	264	0.062	0.63	0.79	15
	MMF-UP0361H-E	230-1-50	198	264	0.109	0.94	1.18	15
	MMF-UP0481H-E	230-1-50	198	264	0.109	1.12	1.40	15
	MMF-UP0561H-E	230-1-50	198	264	0.109	1.12	1.40	15

60Hz

Type	Model name	Normal Voltage (V-Ph-Hz)	Voltage Range		Fan Motor		Power Supply	
			Min.	Max.	kW	FLA	MCA	MOCP
Floor Standing Type	MMF-UP0151H-E	220-1-60	198	242	0.062	0.44	0.55	15
	MMF-UP0181H-E	220-1-60	198	242	0.062	0.44	0.55	15
	MMF-UP0241H-E	220-1-60	198	242	0.062	0.66	0.83	15
	MMF-UP0271H-E	220-1-60	198	242	0.062	0.66	0.83	15
	MMF-UP0361H-E	220-1-60	198	242	0.109	0.99	1.23	15
	MMF-UP0481H-E	220-1-60	198	242	0.109	1.18	1.47	15
	MMF-UP0561H-E	220-1-60	198	242	0.109	1.18	1.47	15

MCA : Minimum Circuit Amps

FLA: Full Load Amps

MOCP : Maximum Overcurrent Protection (Amps)

kW : Fan Motor Rated Output (kW)

7. Sensible capacity table

Floor Standing Type (MMF-UP_1H-E)

unit size	outdoor air temp. °CDB	indoor air temp.													
		14.0°CWB		16.0°CWB		18.0°CWB		19.0°CWB		20.0°CWB		22.0°CWB		24.0°CWB	
		20°CDB		23°CDB		26°CDB		27°CDB		28°CDB		30°CDB		32°CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
015	10.0	3.7	3.0	4.1	3.2	4.4	3.4	4.5	3.4	4.6	3.4	4.9	3.4	5.1	3.3
	12.0	3.7	3.0	4.1	3.2	4.4	3.4	4.5	3.4	4.6	3.4	4.9	3.4	5.1	3.3
	14.0	3.7	3.0	4.1	3.2	4.4	3.4	4.5	3.4	4.6	3.4	4.9	3.4	5.1	3.3
	16.0	3.7	3.0	4.1	3.2	4.4	3.4	4.5	3.4	4.6	3.4	4.9	3.4	5.1	3.3
	18.0	3.7	3.0	4.1	3.2	4.4	3.4	4.5	3.4	4.6	3.4	4.9	3.4	5.1	3.3
	20.0	3.7	3.0	4.1	3.2	4.4	3.4	4.5	3.4	4.6	3.4	4.9	3.4	5.1	3.3
	21.0	3.7	3.0	4.1	3.2	4.4	3.4	4.5	3.4	4.6	3.4	4.9	3.4	5.1	3.3
	23.0	3.7	3.0	4.1	3.2	4.4	3.4	4.5	3.4	4.6	3.4	4.9	3.4	5.1	3.3
	25.0	3.7	3.0	4.1	3.2	4.4	3.4	4.5	3.4	4.6	3.4	4.9	3.4	5.1	3.3
	27.0	3.7	3.0	4.1	3.2	4.4	3.4	4.5	3.4	4.6	3.4	4.9	3.4	5.1	3.3
	29.0	3.7	3.0	4.1	3.2	4.4	3.4	4.5	3.4	4.6	3.4	4.9	3.4	5.1	3.3
	31.0	3.7	3.0	4.1	3.2	4.4	3.4	4.5	3.4	4.6	3.4	4.9	3.4	5.1	3.3
	33.0	3.7	3.0	4.1	3.2	4.4	3.4	4.5	3.4	4.6	3.4	4.9	3.4	5.1	3.3
	35.0	3.7	3.0	4.1	3.2	4.4	3.4	4.5	3.4	4.6	3.4	4.9	3.4	5.1	3.3
018	10.0	4.6	3.6	5.1	3.9	5.4	4.1	5.6	4.1	5.8	4.1	6.1	4.1	6.4	4.0
	12.0	4.6	3.6	5.1	3.9	5.4	4.1	5.6	4.1	5.8	4.1	6.1	4.1	6.4	4.0
	14.0	4.6	3.6	5.1	3.9	5.4	4.1	5.6	4.1	5.8	4.1	6.1	4.1	6.4	4.0
	16.0	4.6	3.6	5.1	3.9	5.4	4.1	5.6	4.1	5.8	4.1	6.1	4.1	6.4	4.0
	18.0	4.6	3.6	5.1	3.9	5.4	4.1	5.6	4.1	5.8	4.1	6.1	4.1	6.4	4.0
	20.0	4.6	3.6	5.1	3.9	5.4	4.1	5.6	4.1	5.8	4.1	6.1	4.1	6.4	4.0
	21.0	4.6	3.6	5.1	3.9	5.4	4.1	5.6	4.1	5.8	4.1	6.1	4.1	6.4	4.0
	23.0	4.6	3.6	5.1	3.9	5.4	4.1	5.6	4.1	5.8	4.1	6.1	4.1	6.4	4.0
	25.0	4.6	3.6	5.1	3.9	5.4	4.1	5.6	4.1	5.8	4.1	6.1	4.1	6.4	4.0
	27.0	4.6	3.6	5.1	3.9	5.4	4.1	5.6	4.1	5.8	4.1	6.1	4.1	6.4	4.0
	29.0	4.6	3.6	5.1	3.9	5.4	4.1	5.6	4.1	5.8	4.1	6.1	4.1	6.4	4.0
	31.0	4.6	3.6	5.1	3.9	5.4	4.1	5.6	4.1	5.8	4.1	6.1	4.1	6.4	4.0
	33.0	4.6	3.6	5.1	3.9	5.4	4.1	5.6	4.1	5.8	4.1	6.1	4.1	6.4	4.0
	35.0	4.6	3.6	5.1	3.9	5.4	4.1	5.6	4.1	5.8	4.1	6.1	4.1	6.4	4.0
024	10.0	5.8	4.7	6.4	5.0	6.9	5.3	7.1	5.3	7.3	5.3	7.7	5.3	8.1	5.1
	12.0	5.8	4.7	6.4	5.0	6.9	5.3	7.1	5.3	7.3	5.3	7.7	5.3	8.1	5.1
	14.0	5.8	4.7	6.4	5.0	6.9	5.3	7.1	5.3	7.3	5.3	7.7	5.3	8.1	5.1
	16.0	5.8	4.7	6.4	5.0	6.9	5.3	7.1	5.3	7.3	5.3	7.7	5.3	8.1	5.1
	18.0	5.8	4.7	6.4	5.0	6.9	5.3	7.1	5.3	7.3	5.3	7.7	5.3	8.1	5.1
	20.0	5.8	4.7	6.4	5.0	6.9	5.3	7.1	5.3	7.3	5.3	7.7	5.3	8.1	5.1
	21.0	5.8	4.7	6.4	5.0	6.9	5.3	7.1	5.3	7.3	5.3	7.7	5.3	8.1	5.1
	23.0	5.8	4.7	6.4	5.0	6.9	5.3	7.1	5.3	7.3	5.3	7.7	5.3	8.1	5.1
	25.0	5.8	4.7	6.4	5.0	6.9	5.3	7.1	5.3	7.3	5.3	7.7	5.3	8.1	5.1
	27.0	5.8	4.7	6.4	5.0	6.9	5.3	7.1	5.3	7.3	5.3	7.7	5.3	8.1	5.1
	29.0	5.8	4.7	6.4	5.0	6.9	5.3	7.1	5.3	7.3	5.3	7.7	5.3	8.1	5.1
	31.0	5.8	4.7	6.4	5.0	6.9	5.3	7.1	5.3	7.3	5.3	7.7	5.3	8.1	5.1
	33.0	5.8	4.7	6.4	5.0	6.9	5.3	7.1	5.3	7.3	5.3	7.7	5.3	8.1	5.1
	35.0	5.8	4.7	6.4	5.0	6.9	5.3	7.1	5.3	7.3	5.3	7.7	5.3	8.1	5.1
027	10.0	6.6	5.2	7.3	5.6	7.8	5.9	8.0	5.9	8.2	5.9	8.7	5.8	9.1	5.7
	12.0	6.6	5.2	7.3	5.6	7.8	5.9	8.0	5.9	8.2	5.9	8.7	5.8	9.1	5.7
	14.0	6.6	5.2	7.3	5.6	7.8	5.9	8.0	5.9	8.2	5.9	8.7	5.8	9.1	5.7
	16.0	6.6	5.2	7.3	5.6	7.8	5.9	8.0	5.9	8.2	5.9	8.7	5.8	9.1	5.7
	18.0	6.6	5.2	7.3	5.6	7.8	5.9	8.0	5.9	8.2	5.9	8.7	5.8	9.1	5.7
	20.0	6.6	5.2	7.3	5.6	7.8	5.9	8.0	5.9	8.2	5.9	8.7	5.8	9.1	5.7
	21.0	6.6	5.2	7.3	5.6	7.8	5.9	8.0	5.9	8.2	5.9	8.7	5.8	9.1	5.7
	23.0	6.6	5.2	7.3	5.6	7.8	5.9	8.0	5.9	8.2	5.9	8.7	5.8	9.1	5.7
	25.0	6.6	5.2	7.3	5.6	7.8	5.9	8.0	5.9	8.2	5.9	8.7	5.8	9.1	5.7
	27.0	6.6	5.2	7.3	5.6	7.8	5.9	8.0	5.9	8.2	5.9	8.7	5.8	9.1	5.7
	29.0	6.6	5.2	7.3	5.6	7.8	5.9	8.0	5.9	8.2	5.9	8.7	5.8	9.1	5.7
	31.0	6.6	5.2	7.3	5.6	7.8	5.9	8.0	5.9	8.2	5.9	8.7	5.8	9.1	5.7
	33.0	6.6	5.2	7.3	5.6	7.8	5.9	8.0	5.9	8.2	5.9	8.7	5.8	9.1	5.7
	35.0	6.6	5.2	7.3	5.6	7.8	5.9	8.0	5.9	8.2	5.9	8.7	5.8	9.1	5.7

TC : Total capacity [kW]

SHC : Sensible capacity [kW]

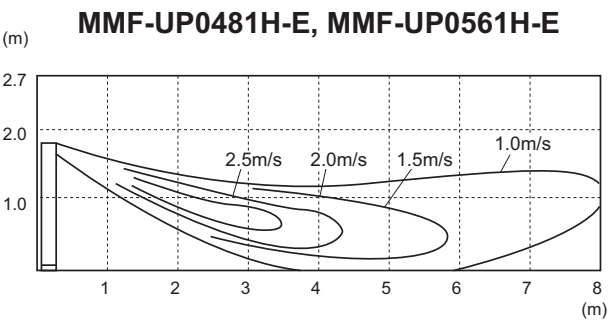
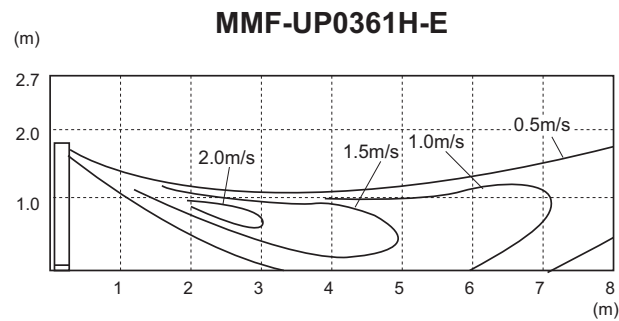
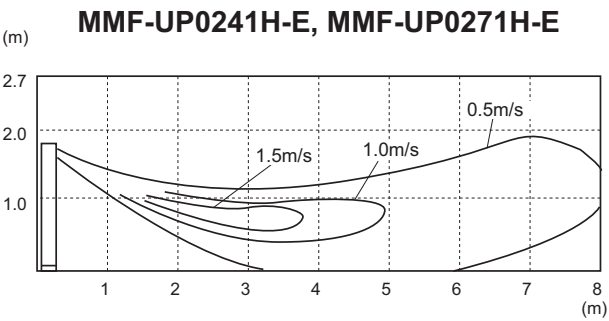
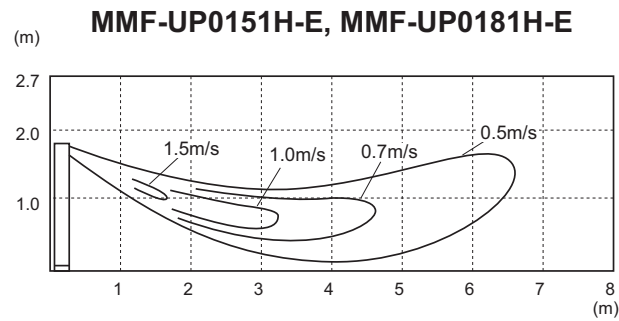
Floor Standing Type (MMF-UP_1H-E)

unit size	outdoor air temp. °CDB	indoor air temp.													
		14.0°CWB		16.0°CWB		18.0°CWB		19.0°CWB		20.0°CWB		22.0°CWB		24.0°CWB	
		20°CDB		23°CDB		26°CDB		27°CDB		28°CDB		30°CDB		32°CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
036	10.0	9.2	7.3	10.2	7.8	10.9	8.3	11.2	8.3	11.5	8.3	12.2	8.2	12.8	8.0
	12.0	9.2	7.3	10.2	7.8	10.9	8.3	11.2	8.3	11.5	8.3	12.2	8.2	12.8	8.0
	14.0	9.2	7.3	10.2	7.8	10.9	8.3	11.2	8.3	11.5	8.3	12.2	8.2	12.8	8.0
	16.0	9.2	7.3	10.2	7.8	10.9	8.3	11.2	8.3	11.5	8.3	12.2	8.2	12.8	8.0
	18.0	9.2	7.3	10.2	7.8	10.9	8.3	11.2	8.3	11.5	8.3	12.2	8.2	12.8	8.0
	20.0	9.2	7.3	10.2	7.8	10.9	8.3	11.2	8.3	11.5	8.3	12.2	8.2	12.8	8.0
	21.0	9.2	7.3	10.2	7.8	10.9	8.3	11.2	8.3	11.5	8.3	12.2	8.2	12.8	8.0
	23.0	9.2	7.3	10.2	7.8	10.9	8.3	11.2	8.3	11.5	8.3	12.2	8.2	12.8	8.0
	25.0	9.2	7.3	10.2	7.8	10.9	8.3	11.2	8.3	11.5	8.3	12.2	8.2	12.8	8.0
	27.0	9.2	7.3	10.2	7.8	10.9	8.3	11.2	8.3	11.5	8.3	12.2	8.2	12.8	8.0
	29.0	9.2	7.3	10.2	7.8	10.9	8.3	11.2	8.3	11.5	8.3	12.2	8.2	12.8	8.0
	31.0	9.2	7.3	10.2	7.8	10.9	8.3	11.2	8.3	11.5	8.3	12.2	8.2	12.8	8.0
	33.0	9.2	7.3	10.2	7.8	10.9	8.3	11.2	8.3	11.5	8.3	12.2	8.2	12.8	8.0
	35.0	9.2	7.3	10.2	7.8	10.9	8.3	11.2	8.3	11.5	8.3	12.2	8.2	12.8	8.0
048	10.0	11.5	8.9	12.7	9.5	13.6	10.1	14.0	10.1	14.4	10.1	15.3	10.0	16.0	9.8
	12.0	11.5	8.9	12.7	9.5	13.6	10.1	14.0	10.1	14.4	10.1	15.3	10.0	16.0	9.8
	14.0	11.5	8.9	12.7	9.5	13.6	10.1	14.0	10.1	14.4	10.1	15.3	10.0	16.0	9.8
	16.0	11.5	8.9	12.7	9.5	13.6	10.1	14.0	10.1	14.4	10.1	15.3	10.0	16.0	9.8
	18.0	11.5	8.9	12.7	9.5	13.6	10.1	14.0	10.1	14.4	10.1	15.3	10.0	16.0	9.8
	20.0	11.5	8.9	12.7	9.5	13.6	10.1	14.0	10.1	14.4	10.1	15.3	10.0	16.0	9.8
	21.0	11.5	8.9	12.7	9.5	13.6	10.1	14.0	10.1	14.4	10.1	15.3	10.0	16.0	9.8
	23.0	11.5	8.9	12.7	9.5	13.6	10.1	14.0	10.1	14.4	10.1	15.3	10.0	16.0	9.8
	25.0	11.5	8.9	12.7	9.5	13.6	10.1	14.0	10.1	14.4	10.1	15.3	10.0	16.0	9.8
	27.0	11.5	8.9	12.7	9.5	13.6	10.1	14.0	10.1	14.4	10.1	15.3	10.0	16.0	9.8
	29.0	11.5	8.9	12.7	9.5	13.6	10.1	14.0	10.1	14.4	10.1	15.3	10.0	16.0	9.8
	31.0	11.5	8.9	12.7	9.5	13.6	10.1	14.0	10.1	14.4	10.1	15.3	10.0	16.0	9.8
	33.0	11.5	8.9	12.7	9.5	13.6	10.1	14.0	10.1	14.4	10.1	15.3	10.0	16.0	9.8
	35.0	11.5	8.9	12.7	9.5	13.6	10.1	14.0	10.1	14.4	10.1	15.3	10.0	16.0	9.8
056	10.0	13.1	10.1	14.5	10.8	15.5	11.4	16.0	11.4	16.5	11.4	17.4	11.3	18.2	11.0
	12.0	13.1	10.1	14.5	10.8	15.5	11.4	16.0	11.4	16.5	11.4	17.4	11.3	18.2	11.0
	14.0	13.1	10.1	14.5	10.8	15.5	11.4	16.0	11.4	16.5	11.4	17.4	11.3	18.2	11.0
	16.0	13.1	10.1	14.5	10.8	15.5	11.4	16.0	11.4	16.5	11.4	17.4	11.3	18.2	11.0
	18.0	13.1	10.1	14.5	10.8	15.5	11.4	16.0	11.4	16.5	11.4	17.4	11.3	18.2	11.0
	20.0	13.1	10.1	14.5	10.8	15.5	11.4	16.0	11.4	16.5	11.4	17.4	11.3	18.2	11.0
	21.0	13.1	10.1	14.5	10.8	15.5	11.4	16.0	11.4	16.5	11.4	17.4	11.3	18.2	11.0
	23.0	13.1	10.1	14.5	10.8	15.5	11.4	16.0	11.4	16.5	11.4	17.4	11.3	18.2	11.0
	25.0	13.1	10.1	14.5	10.8	15.5	11.4	16.0	11.4	16.5	11.4	17.4	11.3	18.2	11.0
	27.0	13.1	10.1	14.5	10.8	15.5	11.4	16.0	11.4	16.5	11.4	17.4	11.3	18.2	11.0
	29.0	13.1	10.1	14.5	10.8	15.5	11.4	16.0	11.4	16.5	11.4	17.4	11.3	18.2	11.0
	31.0	13.1	10.1	14.5	10.8	15.5	11.4	16.0	11.4	16.5	11.4	17.4	11.3	18.2	11.0
	33.0	13.1	10.1	14.5	10.8	15.5	11.4	16.0	11.4	16.5	11.4	17.4	11.3	18.2	11.0
	35.0	13.1	10.1	14.5	10.8	15.5	11.4	16.0	11.4	16.5	11.4	17.4	11.3	18.2	11.0

TC : Total capacity [kW]

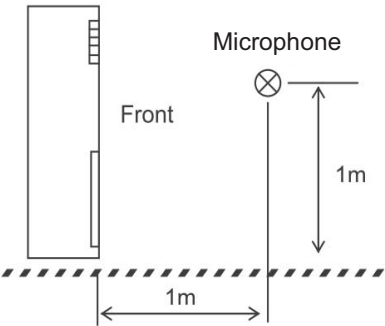
SHC : Sensible capacity [kW]

8. Air flow distance chart



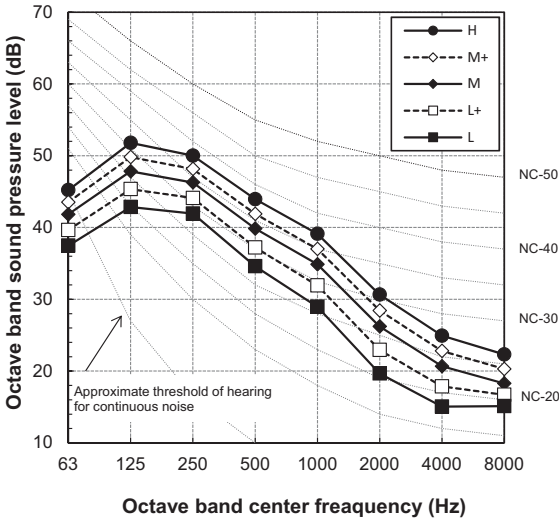
9. Sound data

Sound pressure spectrum



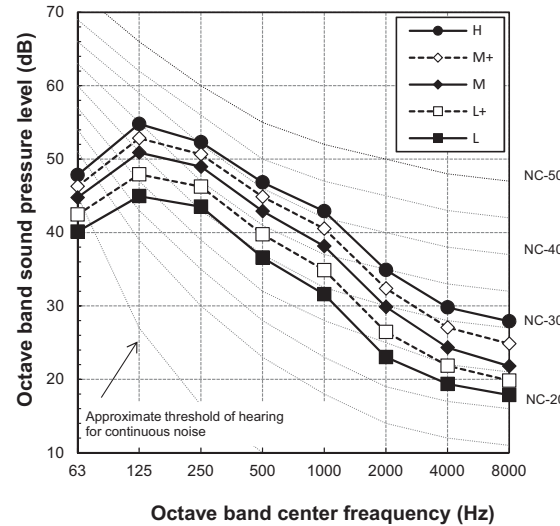
MMF-UP0151H-E, MMF-UP0181H-E

Fan tap	H	M+	M	L+	L
Sound pressure (dBA)	46	44	42	40	38



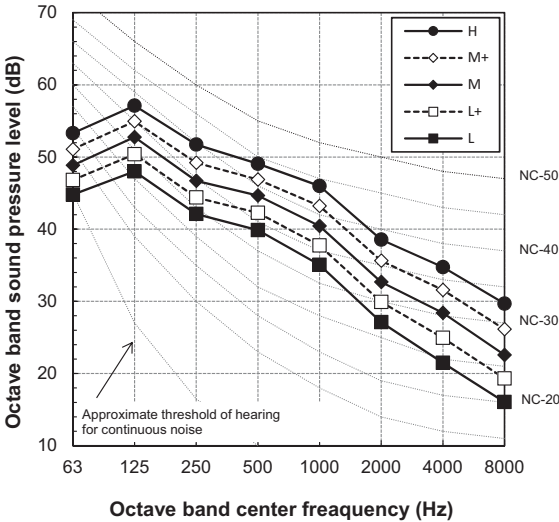
MMF-UP0241H-E, MMF-UP0271H-E

Fan tap	H	M+	M	L+	L
Sound pressure (dBA)	50	47	45	43	41



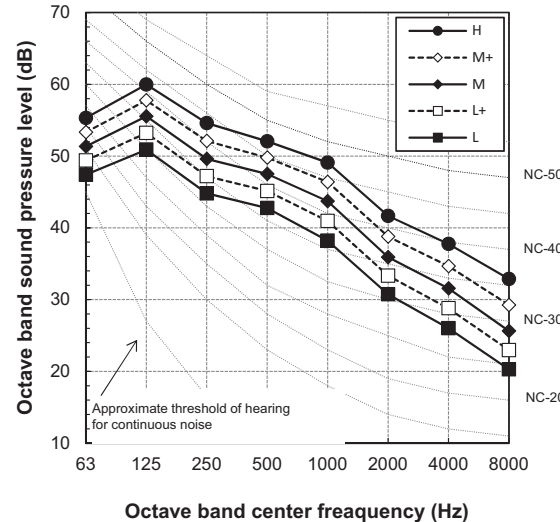
MMF-UP0361H-E

Fan tap	H	M+	M	L+	L
Sound pressure (dBA)	51	49	46	44	41



MMF-UP0481H-E, MMF-UP0561H-E

Fan tap	H	M+	M	L+	L
Sound pressure (dBA)	53	51	48	46	45



Floor Standing Type Engineering Data Book

Model name:

MMF-UP_1H-E

November, 2020

Toshiba Carrier Corporation