

Floor Standing Cabinet Type

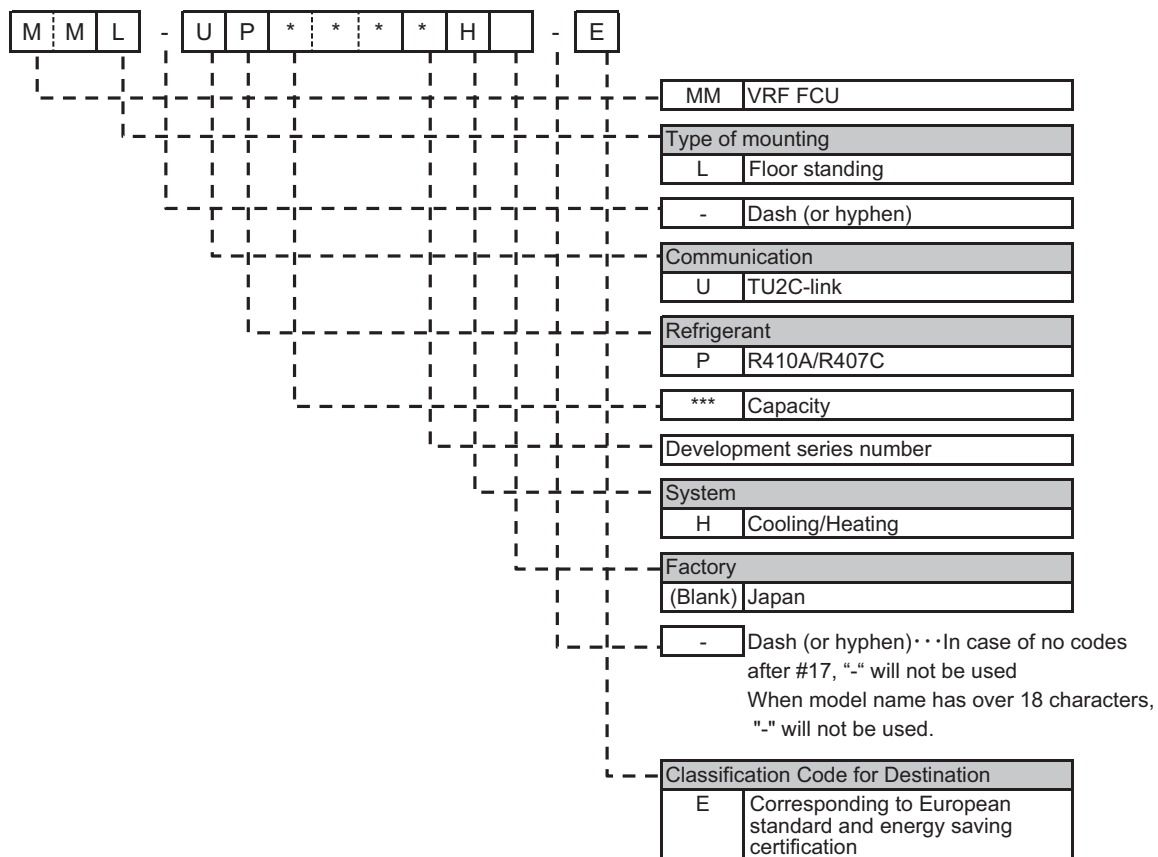
MML-UP0071H-E / MML-UP0091H-E
MML-UP0121H-E / MML-UP0151H-E
MML-UP0181H-E / MML-UP0241H-E



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Allocation standard of model name



1. Specifications



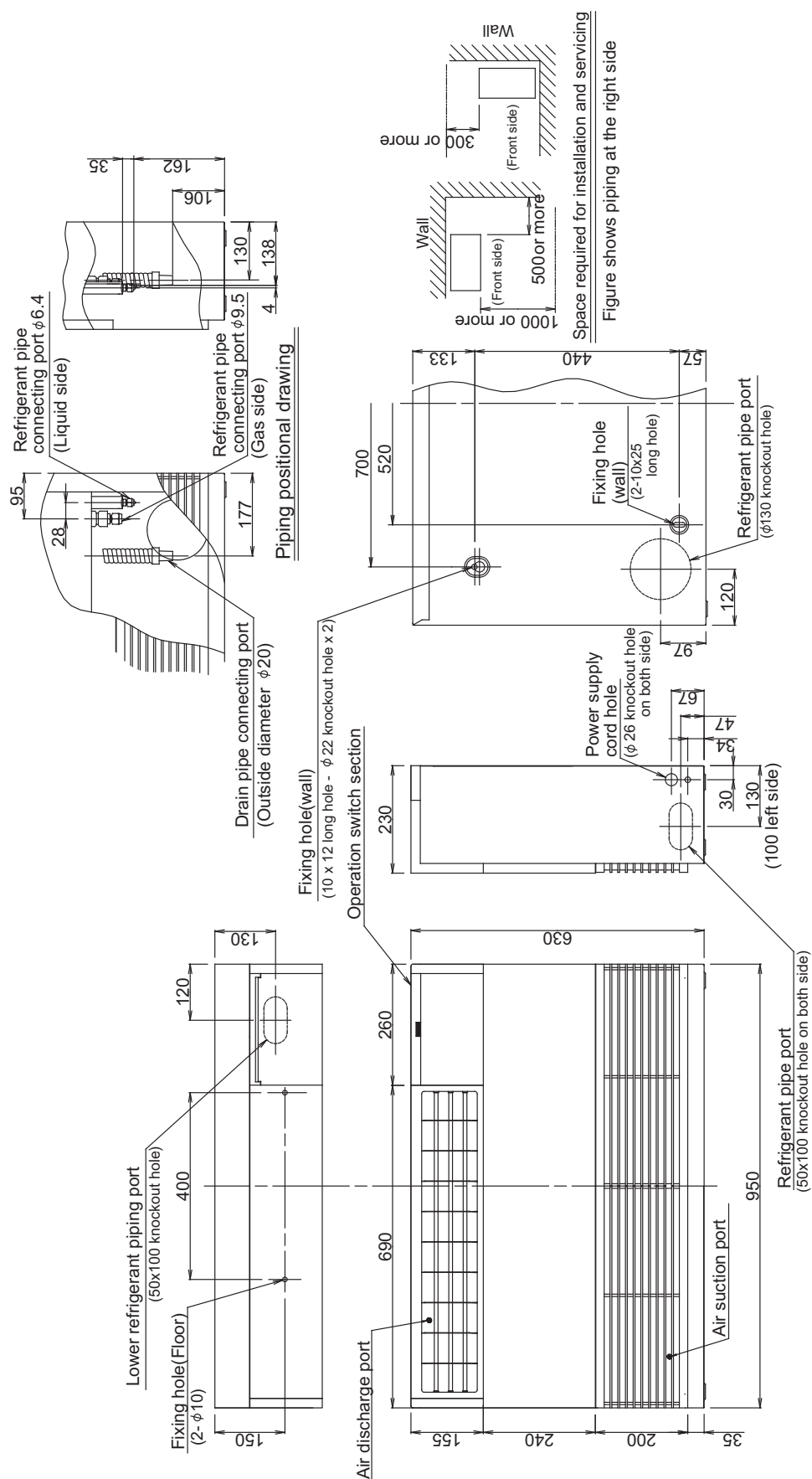
Model name			MML-	UP0071H-E	UP0091H-E	UP0121H-E	UP0151H-E	UP0181H-E	UP0241H-E
Cooling/Heating capacity (*1)			kW	2.2 / 2.5	2.8 / 3.2	3.6 / 4.0	4.5 / 5.0	5.6 / 6.3	7.1 / 8.0
Electrical characteristics	Power supply			1 phase 50Hz 220-240V / 1 phase 60Hz 220V					
	Running current		A	0.26 / 0.25		0.43 / 0.44		0.47 / 0.53	
	Power consumption		kW	0.056 / 0.053		0.092 / 0.092		0.102 / 0.113	
	Starting current		A	0.60 / 0.60		0.80 / 0.80		1.10 / 1.10	
Appearance				Silky shade (Munsell1Y8.5 / 0.5)					
Outer dimension		Height	mm	630					
		Width	mm	950					
		Depth	mm	230					
Total weight			kg	35				38	
Heat exchanger				Finned tube					
Soundproof/Heat-insulating material				Non-flammable insulation					
Fan unit	Fan			Centrifugal fan					
	Standard air flow (High/Mid./Low)		m³/h	480 / 420 / 360		900 / 780 / 650		1,080 / 930 / 780	
	Motor output		W	45				70	
Air filter				Standard filter (Simple filter)					
Controller				Remote controller (Sold separately)					
Connecting pipe	Gas side		mm	Ø9.5			Ø12.7		Ø15.9
	Liquid side		mm	Ø6.4					Ø9.5
	Drain port (Nominal dia.)		mm	20 (Polyvinyl chloride tube)					
Sound pressure level (High/Mid./Low)			dB(A)	39 / 37 / 35		45 / 41 / 38		49 / 44 / 39	
Sound power level (High/Mid./Low)			dB(A)	54 / 52 / 50		60 / 56 / 53		64 / 59 / 54	

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.

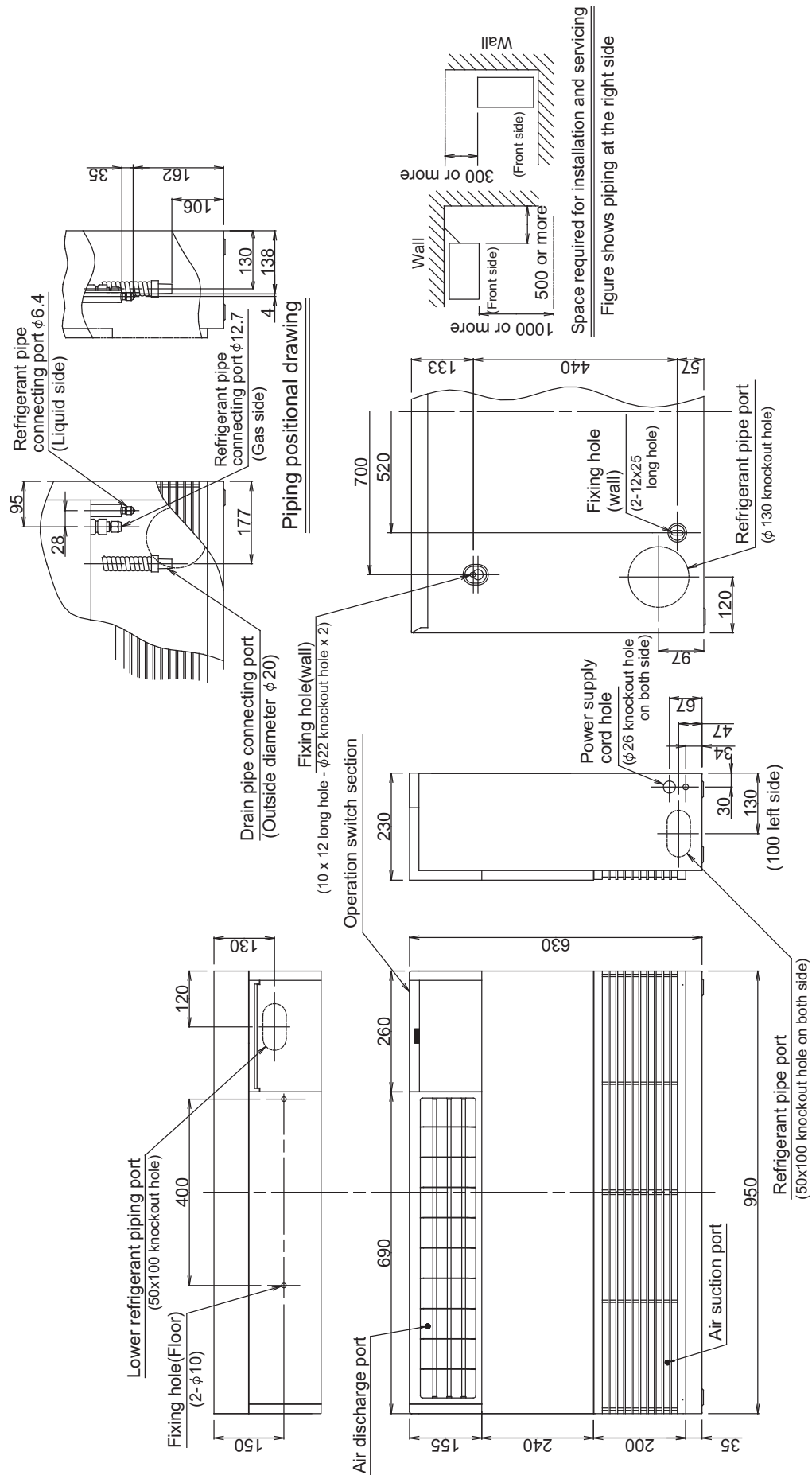
2. Dimensions

MML-UP0071H-E, MML-UP0091H-E, MML-UP0121H-E



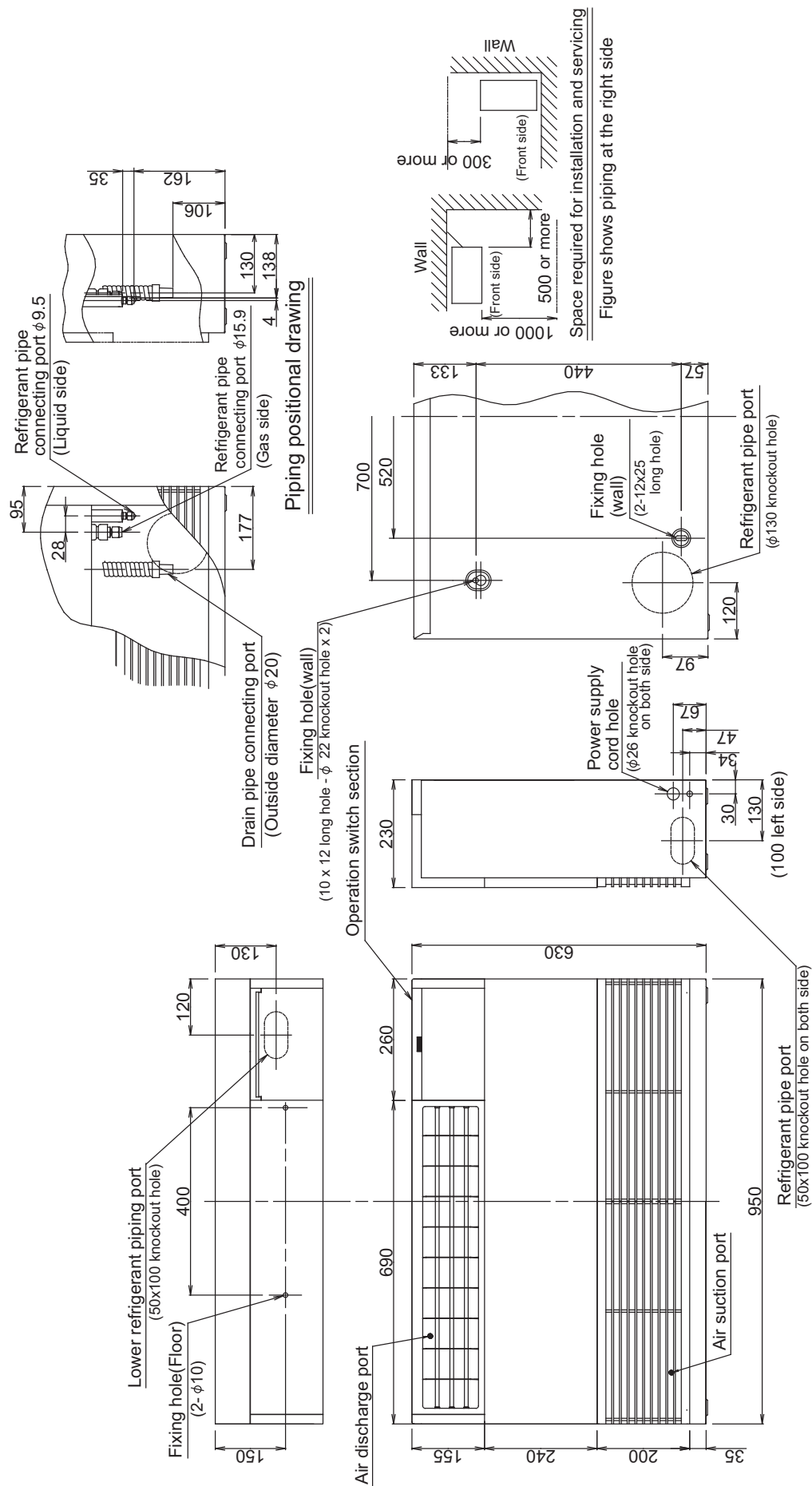
(Unit:mm)

MML-UP0151H-E, MML-UP0181H-E



(Unit:mm)

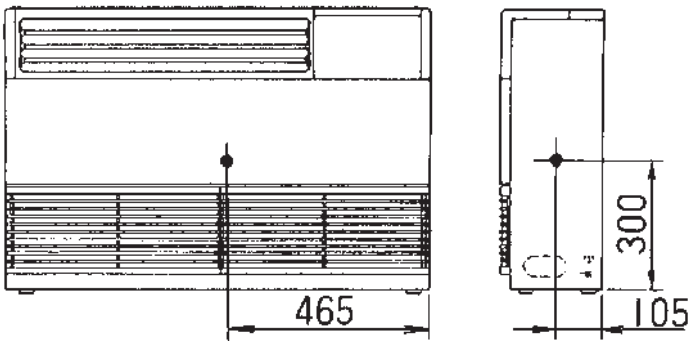
MML-UP0241H-E



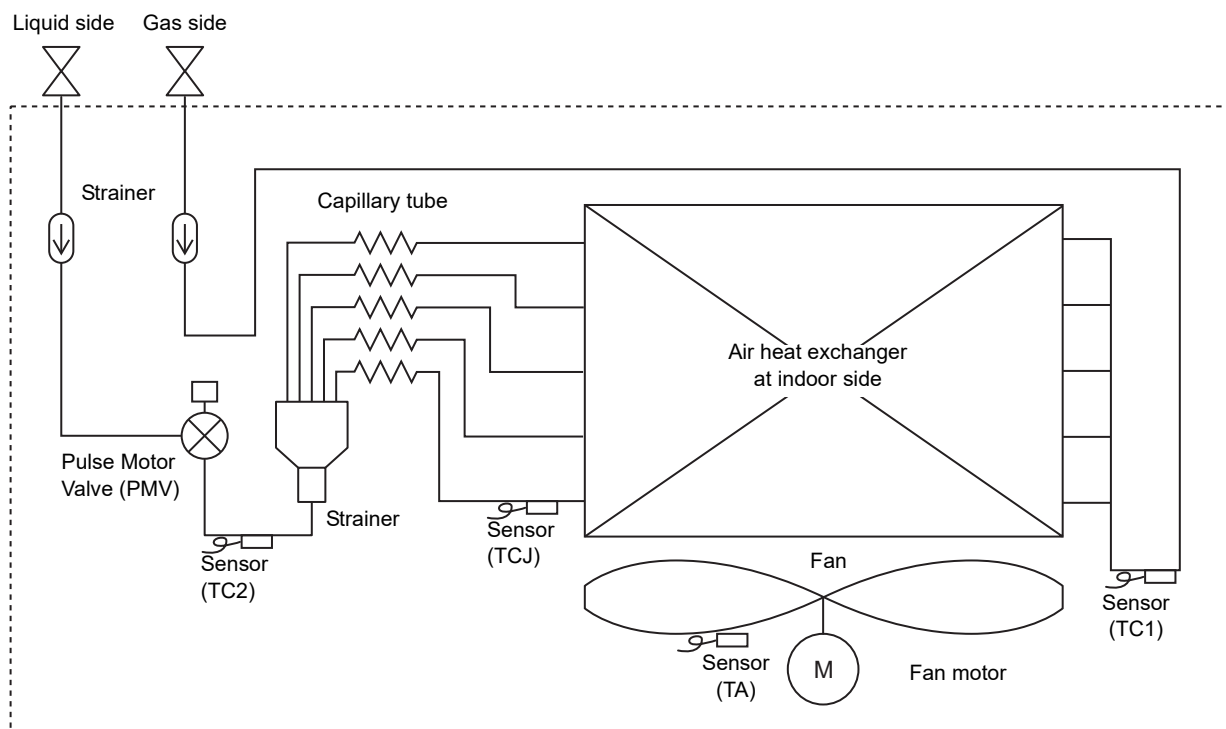
(Unit:mm)

3. Center of gravity

Model name	Total weight(kg)
MML-UP0071H-E	35
MML-UP0091H-E	
MML-UP0121H-E	
MML-UP0151H-E	
MML-UP0181H-E	38
MML-UP0241H-E	



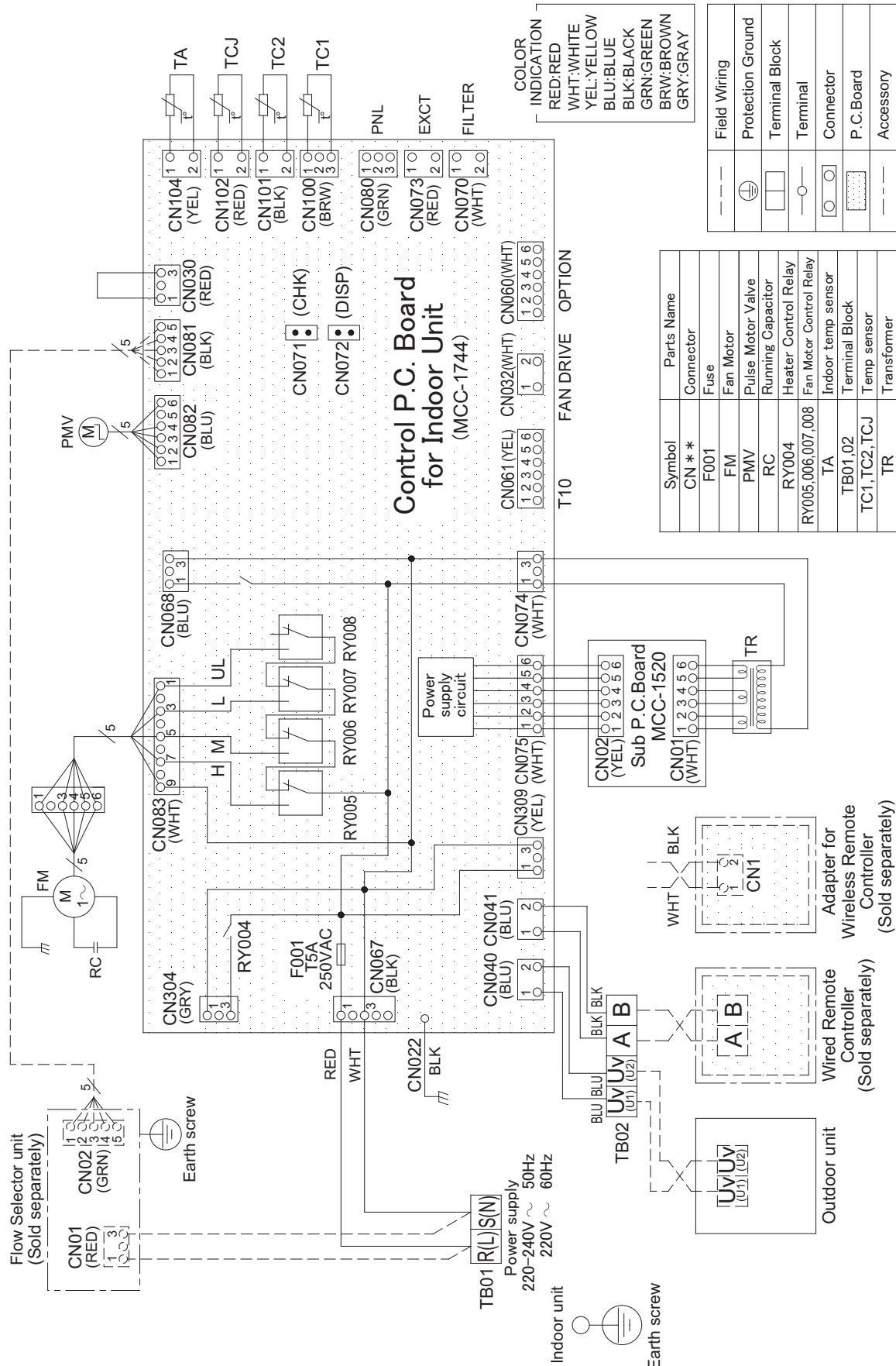
4. Piping diagram



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

**MML-UP0071H-E, MML-UP0091H-E, MML-UP0121H-E, MML-UP0151H-E,
MML-UP0181H-E, MML-UP0241H-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 Cabinet Type (MML-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
007	10.0	1.8	1.2	2.0	1.3	2.1	1.4	2.2	1.4	2.3	1.4	2.4	1.4	2.5	1.4
	12.0	1.8	1.2	2.0	1.3	2.1	1.4	2.2	1.4	2.3	1.4	2.4	1.4	2.5	1.4
	14.0	1.8	1.2	2.0	1.3	2.1	1.4	2.2	1.4	2.3	1.4	2.4	1.4	2.5	1.4
	16.0	1.8	1.2	2.0	1.3	2.1	1.4	2.2	1.4	2.3	1.4	2.4	1.4	2.5	1.4
	18.0	1.8	1.2	2.0	1.3	2.1	1.4	2.2	1.4	2.3	1.4	2.4	1.4	2.5	1.4
	20.0	1.8	1.2	2.0	1.3	2.1	1.4	2.2	1.4	2.3	1.4	2.4	1.4	2.5	1.4
	21.0	1.8	1.2	2.0	1.3	2.1	1.4	2.2	1.4	2.3	1.4	2.4	1.4	2.5	1.4
	23.0	1.8	1.2	2.0	1.3	2.1	1.4	2.2	1.4	2.3	1.4	2.4	1.4	2.5	1.4
	25.0	1.8	1.2	2.0	1.3	2.1	1.4	2.2	1.4	2.3	1.4	2.4	1.4	2.5	1.4
	27.0	1.8	1.2	2.0	1.3	2.1	1.4	2.2	1.4	2.3	1.4	2.4	1.4	2.5	1.4
	29.0	1.8	1.2	2.0	1.3	2.1	1.4	2.2	1.4	2.3	1.4	2.4	1.4	2.5	1.4
	31.0	1.8	1.2	2.0	1.3	2.1	1.4	2.2	1.4	2.3	1.4	2.4	1.4	2.5	1.4
33.0	1.8	1.2	2.0	1.3	2.1	1.4	2.2	1.4	2.3	1.4	2.4	1.4	2.5	1.4	
35.0	1.8	1.2	2.0	1.3	2.1	1.4	2.2	1.4	2.3	1.4	2.4	1.4	2.5	1.4	
009	10.0	2.3	1.4	2.5	1.5	2.7	1.6	2.8	1.6	2.9	1.6	3.1	1.6	3.2	1.5
	12.0	2.3	1.4	2.5	1.5	2.7	1.6	2.8	1.6	2.9	1.6	3.1	1.6	3.2	1.5
	14.0	2.3	1.4	2.5	1.5	2.7	1.6	2.8	1.6	2.9	1.6	3.1	1.6	3.2	1.5
	16.0	2.3	1.4	2.5	1.5	2.7	1.6	2.8	1.6	2.9	1.6	3.1	1.6	3.2	1.5
	18.0	2.3	1.4	2.5	1.5	2.7	1.6	2.8	1.6	2.9	1.6	3.1	1.6	3.2	1.5
	20.0	2.3	1.4	2.5	1.5	2.7	1.6	2.8	1.6	2.9	1.6	3.1	1.6	3.2	1.5
	21.0	2.3	1.4	2.5	1.5	2.7	1.6	2.8	1.6	2.9	1.6	3.1	1.6	3.2	1.5
	23.0	2.3	1.4	2.5	1.5	2.7	1.6	2.8	1.6	2.9	1.6	3.1	1.6	3.2	1.5
	25.0	2.3	1.4	2.5	1.5	2.7	1.6	2.8	1.6	2.9	1.6	3.1	1.6	3.2	1.5
	27.0	2.3	1.4	2.5	1.5	2.7	1.6	2.8	1.6	2.9	1.6	3.1	1.6	3.2	1.5
	29.0	2.3	1.4	2.5	1.5	2.7	1.6	2.8	1.6	2.9	1.6	3.1	1.6	3.2	1.5
	31.0	2.3	1.4	2.5	1.5	2.7	1.6	2.8	1.6	2.9	1.6	3.1	1.6	3.2	1.5
33.0	2.3	1.4	2.5	1.5	2.7	1.6	2.8	1.6	2.9	1.6	3.1	1.6	3.2	1.5	
35.0	2.3	1.4	2.5	1.5	2.7	1.6	2.8	1.6	2.9	1.6	3.1	1.6	3.2	1.5	
012	10.0	3.0	2.0	3.3	2.1	3.5	2.2	3.6	2.2	3.7	2.2	3.9	2.2	4.1	2.1
	12.0	3.0	2.0	3.3	2.1	3.5	2.2	3.6	2.2	3.7	2.2	3.9	2.2	4.1	2.1
	14.0	3.0	2.0	3.3	2.1	3.5	2.2	3.6	2.2	3.7	2.2	3.9	2.2	4.1	2.1
	16.0	3.0	2.0	3.3	2.1	3.5	2.2	3.6	2.2	3.7	2.2	3.9	2.2	4.1	2.1
	18.0	3.0	2.0	3.3	2.1	3.5	2.2	3.6	2.2	3.7	2.2	3.9	2.2	4.1	2.1
	20.0	3.0	2.0	3.3	2.1	3.5	2.2	3.6	2.2	3.7	2.2	3.9	2.2	4.1	2.1
	21.0	3.0	2.0	3.3	2.1	3.5	2.2	3.6	2.2	3.7	2.2	3.9	2.2	4.1	2.1
	23.0	3.0	2.0	3.3	2.1	3.5	2.2	3.6	2.2	3.7	2.2	3.9	2.2	4.1	2.1
	25.0	3.0	2.0	3.3	2.1	3.5	2.2	3.6	2.2	3.7	2.2	3.9	2.2	4.1	2.1
	27.0	3.0	2.0	3.3	2.1	3.5	2.2	3.6	2.2	3.7	2.2	3.9	2.2	4.1	2.1
	29.0	3.0	2.0	3.3	2.1	3.5	2.2	3.6	2.2	3.7	2.2	3.9	2.2	4.1	2.1
	31.0	3.0	2.0	3.3	2.1	3.5	2.2	3.6	2.2	3.7	2.2	3.9	2.2	4.1	2.1
33.0	3.0	2.0	3.3	2.1	3.5	2.2	3.6	2.2	3.7	2.2	3.9	2.2	4.1	2.1	
35.0	3.0	2.0	3.3	2.1	3.5	2.2	3.6	2.2	3.7	2.2	3.9	2.2	4.1	2.1	
015	10.0	3.5	2.3	3.8	2.5	4.1	2.6	4.4	2.7	4.3	2.6	4.6	2.6	4.8	2.6
	12.0	3.5	2.3	3.8	2.5	4.1	2.6	4.4	2.7	4.3	2.6	4.6	2.6	4.8	2.6
	14.0	3.5	2.3	3.8	2.5	4.1	2.6	4.4	2.7	4.3	2.6	4.6	2.6	4.8	2.6
	16.0	3.5	2.3	3.8	2.5	4.1	2.6	4.4	2.7	4.3	2.6	4.6	2.6	4.8	2.6
	18.0	3.5	2.3	3.8	2.5	4.1	2.6	4.4	2.7	4.3	2.6	4.6	2.6	4.8	2.6
	20.0	3.5	2.3	3.8	2.5	4.1	2.6	4.4	2.7	4.3	2.6	4.6	2.6	4.8	2.6
	21.0	3.5	2.3	3.8	2.5	4.1	2.6	4.4	2.7	4.3	2.6	4.6	2.6	4.8	2.6
	23.0	3.5	2.3	3.8	2.5	4.1	2.6	4.4	2.7	4.3	2.6	4.6	2.6	4.8	2.6
	25.0	3.5	2.3	3.8	2.5	4.1	2.6	4.4	2.7	4.3	2.6	4.6	2.6	4.8	2.6
	27.0	3.5	2.3	3.8	2.5	4.1	2.6	4.4	2.7	4.3	2.6	4.6	2.6	4.8	2.6
	29.0	3.5	2.3	3.8	2.5	4.1	2.6	4.4	2.7	4.3	2.6	4.6	2.6	4.8	2.6
	31.0	3.5	2.3	3.8	2.5	4.1	2.6	4.4	2.7	4.3	2.6	4.6	2.6	4.8	2.6
33.0	3.5	2.3	3.8	2.5	4.1	2.6	4.4	2.7	4.3	2.6	4.6	2.6	4.8	2.6	
35.0	3.6	2.4	4.0	2.6	4.2	2.7	4.5	2.8	4.5	2.7	4.7	2.7	5.0	2.6	

TC : Total capacity [kW]

SHC : Sensible capacity [kW]

Floor Standing Cabinet Type (MML-UP_1H-E)

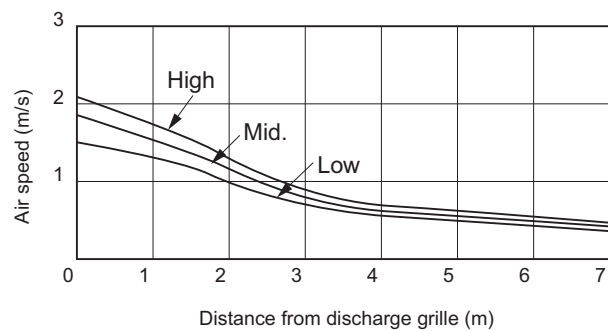
unit size	outdoor air temp. °CDB	indoor air temp.													
		14.0°CWB		16.0°CWB		18.0°CWB		19.0°CWB		20.0°CWB		22.0°CWB		24.0°CWB	
		20°CDB		23°CDB		26°CDB		27°CDB		28°CDB		30°CDB		32°CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
018	10.0	4.6	3.1	5.1	3.3	5.4	3.5	5.6	3.5	5.8	3.5	6.1	3.5	6.4	3.4
	12.0	4.6	3.1	5.1	3.3	5.4	3.5	5.6	3.5	5.8	3.5	6.1	3.5	6.4	3.4
	14.0	4.6	3.1	5.1	3.3	5.4	3.5	5.6	3.5	5.8	3.5	6.1	3.5	6.4	3.4
	16.0	4.6	3.1	5.1	3.3	5.4	3.5	5.6	3.5	5.8	3.5	6.1	3.5	6.4	3.4
	18.0	4.6	3.1	5.1	3.3	5.4	3.5	5.6	3.5	5.8	3.5	6.1	3.5	6.4	3.4
	20.0	4.6	3.1	5.1	3.3	5.4	3.5	5.6	3.5	5.8	3.5	6.1	3.5	6.4	3.4
	21.0	4.6	3.1	5.1	3.3	5.4	3.5	5.6	3.5	5.8	3.5	6.1	3.5	6.4	3.4
	23.0	4.6	3.1	5.1	3.3	5.4	3.5	5.6	3.5	5.8	3.5	6.1	3.5	6.4	3.4
	25.0	4.6	3.1	5.1	3.3	5.4	3.5	5.6	3.5	5.8	3.5	6.1	3.5	6.4	3.4
	27.0	4.6	3.1	5.1	3.3	5.4	3.5	5.6	3.5	5.8	3.5	6.1	3.5	6.4	3.4
	29.0	4.6	3.1	5.1	3.3	5.4	3.5	5.6	3.5	5.8	3.5	6.1	3.5	6.4	3.4
	31.0	4.6	3.1	5.1	3.3	5.4	3.5	5.6	3.5	5.8	3.5	6.1	3.5	6.4	3.4
	33.0	4.6	3.1	5.1	3.3	5.4	3.5	5.6	3.5	5.8	3.5	6.1	3.5	6.4	3.4
	35.0	4.6	3.1	5.1	3.3	5.4	3.5	5.6	3.5	5.8	3.5	6.1	3.5	6.4	3.4
024	10.0	5.8	4.0	6.4	4.2	6.9	4.5	7.1	4.5	7.3	4.5	7.7	4.5	8.1	4.4
	12.0	5.8	4.0	6.4	4.2	6.9	4.5	7.1	4.5	7.3	4.5	7.7	4.5	8.1	4.4
	14.0	5.8	4.0	6.4	4.2	6.9	4.5	7.1	4.5	7.3	4.5	7.7	4.5	8.1	4.4
	16.0	5.8	4.0	6.4	4.2	6.9	4.5	7.1	4.5	7.3	4.5	7.7	4.5	8.1	4.4
	18.0	5.8	4.0	6.4	4.2	6.9	4.5	7.1	4.5	7.3	4.5	7.7	4.5	8.1	4.4
	20.0	5.8	4.0	6.4	4.2	6.9	4.5	7.1	4.5	7.3	4.5	7.7	4.5	8.1	4.4
	21.0	5.8	4.0	6.4	4.2	6.9	4.5	7.1	4.5	7.3	4.5	7.7	4.5	8.1	4.4
	23.0	5.8	4.0	6.4	4.2	6.9	4.5	7.1	4.5	7.3	4.5	7.7	4.5	8.1	4.4
	25.0	5.8	4.0	6.4	4.2	6.9	4.5	7.1	4.5	7.3	4.5	7.7	4.5	8.1	4.4
	27.0	5.8	4.0	6.4	4.2	6.9	4.5	7.1	4.5	7.3	4.5	7.7	4.5	8.1	4.4
	29.0	5.8	4.0	6.4	4.2	6.9	4.5	7.1	4.5	7.3	4.5	7.7	4.5	8.1	4.4
	31.0	5.8	4.0	6.4	4.2	6.9	4.5	7.1	4.5	7.3	4.5	7.7	4.5	8.1	4.4
	33.0	5.8	4.0	6.4	4.2	6.9	4.5	7.1	4.5	7.3	4.5	7.7	4.5	8.1	4.4
	35.0	5.8	4.0	6.4	4.2	6.9	4.5	7.1	4.5	7.3	4.5	7.7	4.5	8.1	4.4

TC : Total capacity [kW]

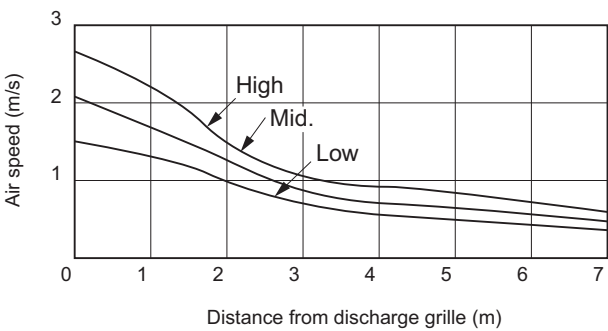
SHC : Sensible capacity [kW]

8. Air flow distance chart

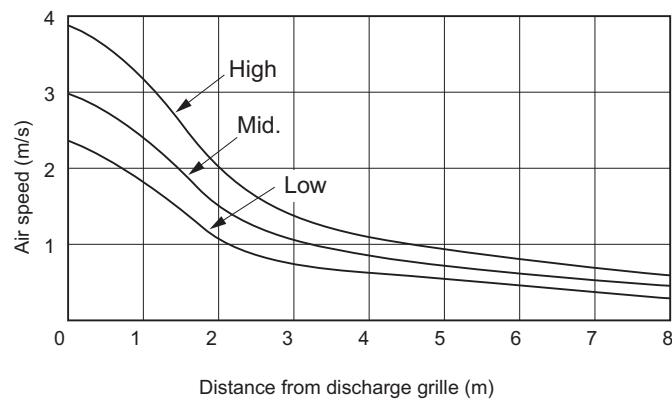
MML-UP0071H-E, MML-UP0091H-E



MML-UP0121H-E, MML-UP0151H-E

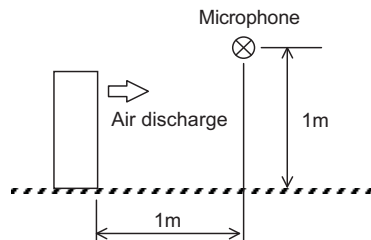


MML-UP0181H-E, MML-UP0241H-E



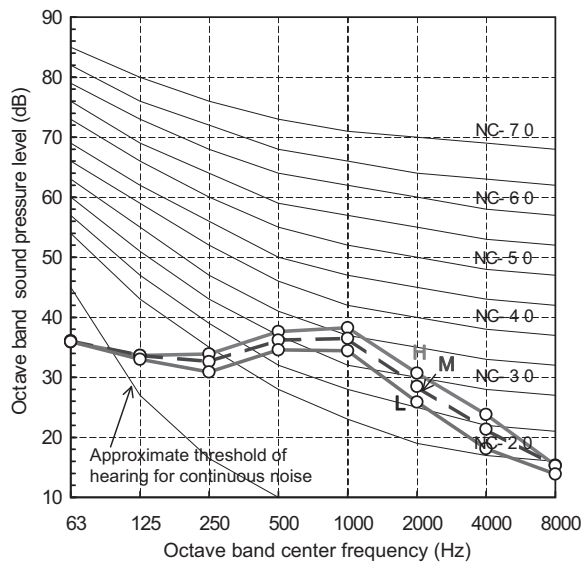
9. Sound data

Sound pressure spectrum



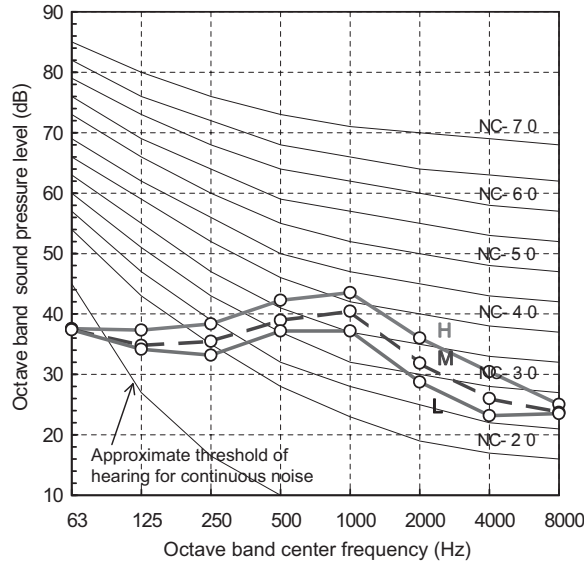
MML-UP0071H-E, MML-UP0091H-E

Fan tap	H	M	L
Sound pressure level (dB(A))	39	37	35



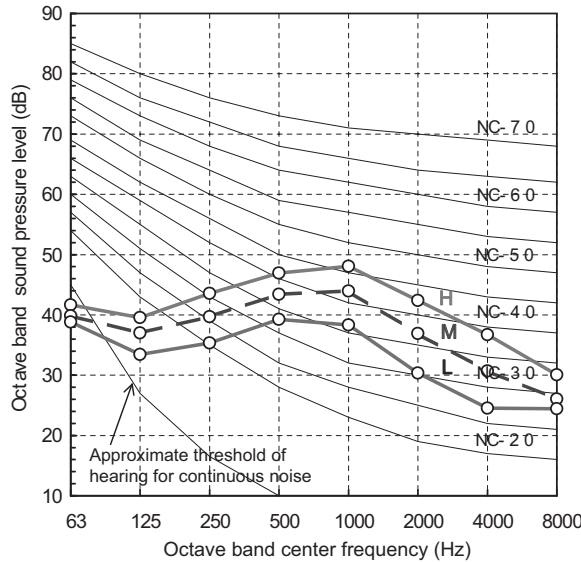
MML-UP0121H-E, MML-UP0151H-E

Fan tap	H	M	L
Sound pressure level (dB(A))	45	41	38



MML-UP0181H-E, MML-UP0241H-E

Fan tap	H	M	L
Sound pressure level (dB(A))	49	44	39



Floor Standing Cabinet Type Engineering Data Book

Model name:

MML-UP_1H-E

November, 2020

Toshiba Carrier Corporation