Compact 4-way Cassette Type

MMU-UP0051MH-E
MMU-UP0071MH-E
MMU-UP0091MH-E
MMU-UP0121MH-E
MMU-UP0151MH-E
MMU-UP0181MH-E

Contents

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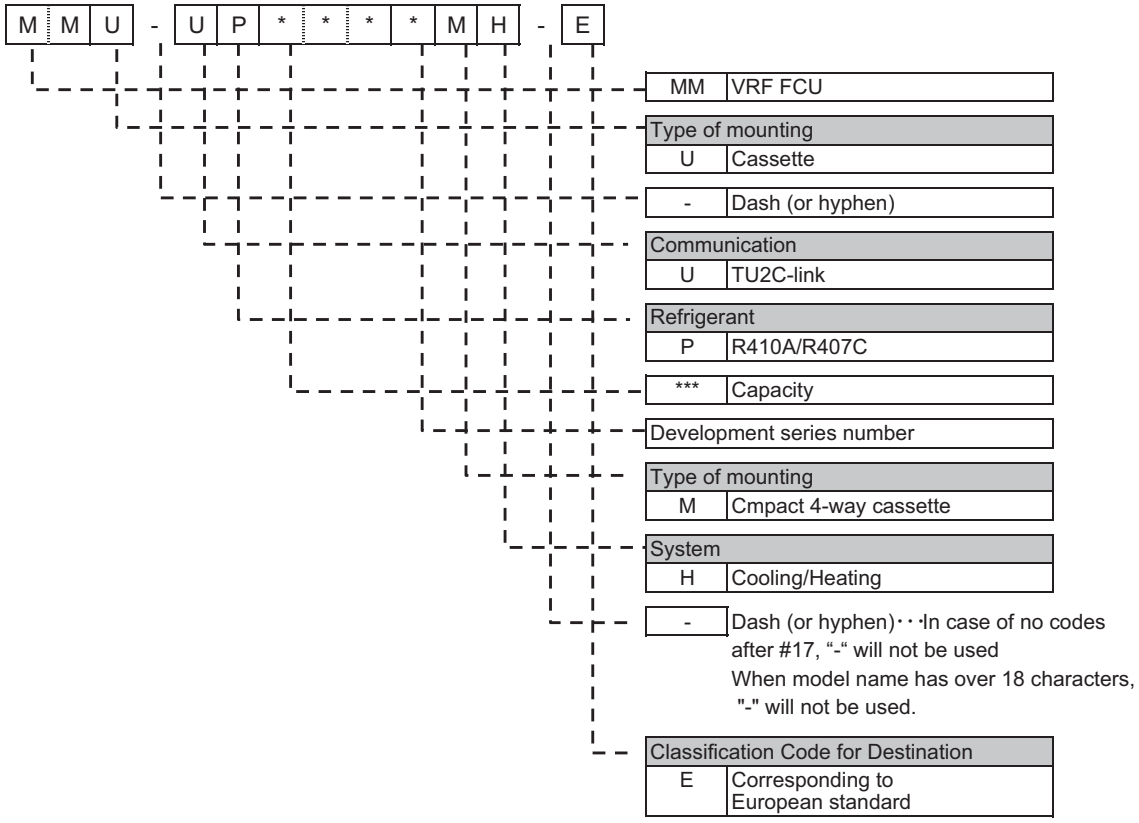
Allocation standard of model name



1. Specifications

Model name				MMU-UP0051MH-E	MMU-UP0071MH-E	MMU-UP0091MH-E	MMU-UP0121MH-E
Cooling Capacity (*1)			kW	1.7	2.2	2.8	3.6
Heating Capacity (*1)			kW	1.9	2.5	3.2	4.0
Electrical charastaristics	Power supply			220-240~50Hz / 208-230~60Hz			
	Running current		A	0.16	0.23	0.24	0.25
	Power consumption		kW	0.016	0.023	0.025	0.027
	Starting current		A	0.28	0.41	0.43	0.44
Appearance	Main Unit			Zinc hot dipping steel plate * Heat-instulating material attached to only upper plate			
	Ceiling Panel (*2)	Model Name		RBC-UM21PG(W)-E			
		Panel Color		Gran White (Munsell 5PB9 / 1)			
Outer dimension	Main Unit	Height (*3)	mm	256			
		Width	mm	575			
		Depth (*4)	mm	575			
	Ceiling Panel	Height (*3)	mm	12			
		Width	mm	620			
		Depth	mm	620			
Total weight	Main Unit		kg	15			
	Ceiling Panel		kg	2.5			
Heat exchanger				Finned tube			
Soundproof / Heat-insulating material				Non-flammable insulation			
Fan unit	Fan			Turbo fan			
	Standard air flow (M+ / M / L+ / L)		m^3/h	430 (415 / 400 / 385 / 365)	552 (500 / 462 / 395 / 378)	570 (520 / 468 / 395 / 378)	594 (550 / 504 / 420 / 402)
	Motor		W	60			
Air filter				Standard filter (Long life filter)			
Controller (*2)				Remote controller			
Connecting pipe	Gas side		mm	Ø 9.5			
	Liquid side		mm	Ø 6.4			
Drain port (Nominal dia. mm)				VP20 (Polyvinyl chloride tube)			
Sound puressure level High (M+ / M / L+ / L)			dB	32 (31 / 30 / 29 / 29)	37 (34 / 33 / 30 / 29)	38 (35 / 33 / 30 / 29)	38 (36 / 34 / 31 / 30)
Sound power level High (M+ / M / L+ / L)			dB	47 (46 / 45 / 44 / 44)	52 (49 / 48 / 45 / 44)	53 (50 / 48 / 45 / 44)	53 (51 / 49 / 46 / 45)

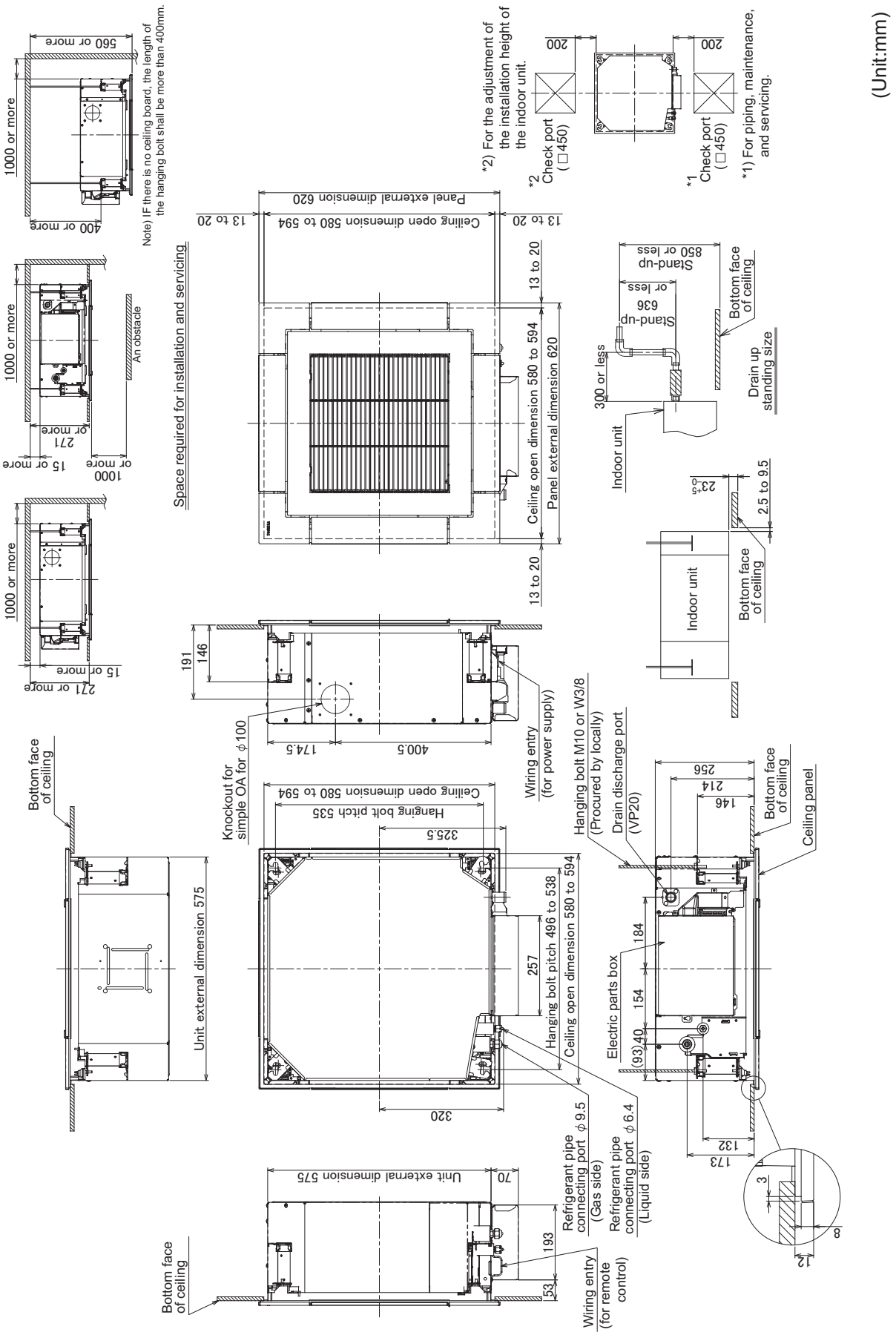
(*1) Cooling / heating capacity is based on single connection operation with standard piping length under Japanese Industrial Standard B 8615 Condition 1.
(*2) Remote controller and ceiling panel are sold separately.
(*3) Height from the ceiling.
(*4) Depth doesn't including the Erectric parts box.

Model name				**MMU-UP0151MH-E**	**MMU-UP0181MH-E**
Cooling Capacity (*1)			kW	4.5	5.6
Heating Capacity (*1)			kW	5.0	6.3
Electrical charastaristics	Power supply			220-240~50Hz / 208-230~60Hz	
	Running current		A	0.28 / 0.26	0.46 / 0.46
	Power consumption		kW	0.030 / 0.030	0.052 / 0.052
	Starting current		A	0.50 / 0.47	0.80 / 0.81
Appearance	Main Unit			Zinc hot dipping steel plate * Heat-instulating material attached to only upper plate	
	Ceiling Panel (*2)	Model Name		RBC-UM21PG(W)-E	
		Panel Color		Gran White (Munsell 5PB9 / 1)	
Outer dimension	Main Unit	Height (*3)	mm	256	
		Width	mm	575	
		Depth (*4)	mm	575	
	Ceiling Panel	Height (*3)	mm	12	
		Width	mm	620	
		Depth	mm	620	
Total weight	Main Unit		kg	15	
	Ceiling Panel		kg	2.5	
Heat exchanger				Finned tube	
Soundproof/Heat-insulating material				Non-flammable insulation	
Fan unit	Fan			Turbo fan	
	Standard air flow (M+ / M / L+ / L)		m^3/h	660 (600 / 552 /480 / 468)	840 (740 / 642 / 540 / 522)
	Motor		W	60	
Air filter				Standard filter (Long life filter)	
Controller			(*2)	Remote controller	
Connecting pipe	Gas side		mm	Ø 12.7	
	Liquid side		mm	Ø 6.4	
Drain port (Nominal dia. mm)				VP20 (Polyvinyl chloride tube)	
Sound puressure level High (M+ / M / L+ / L)			dB	40 (37 / 35 / 32 / 31)	47 (43 / 39 / 36 / 34)
Sound power level High (M+ / M / L+ / L)			dB	55 (52 / 50 / 47 / 46)	62 (58 / 54 / 51 / 49)

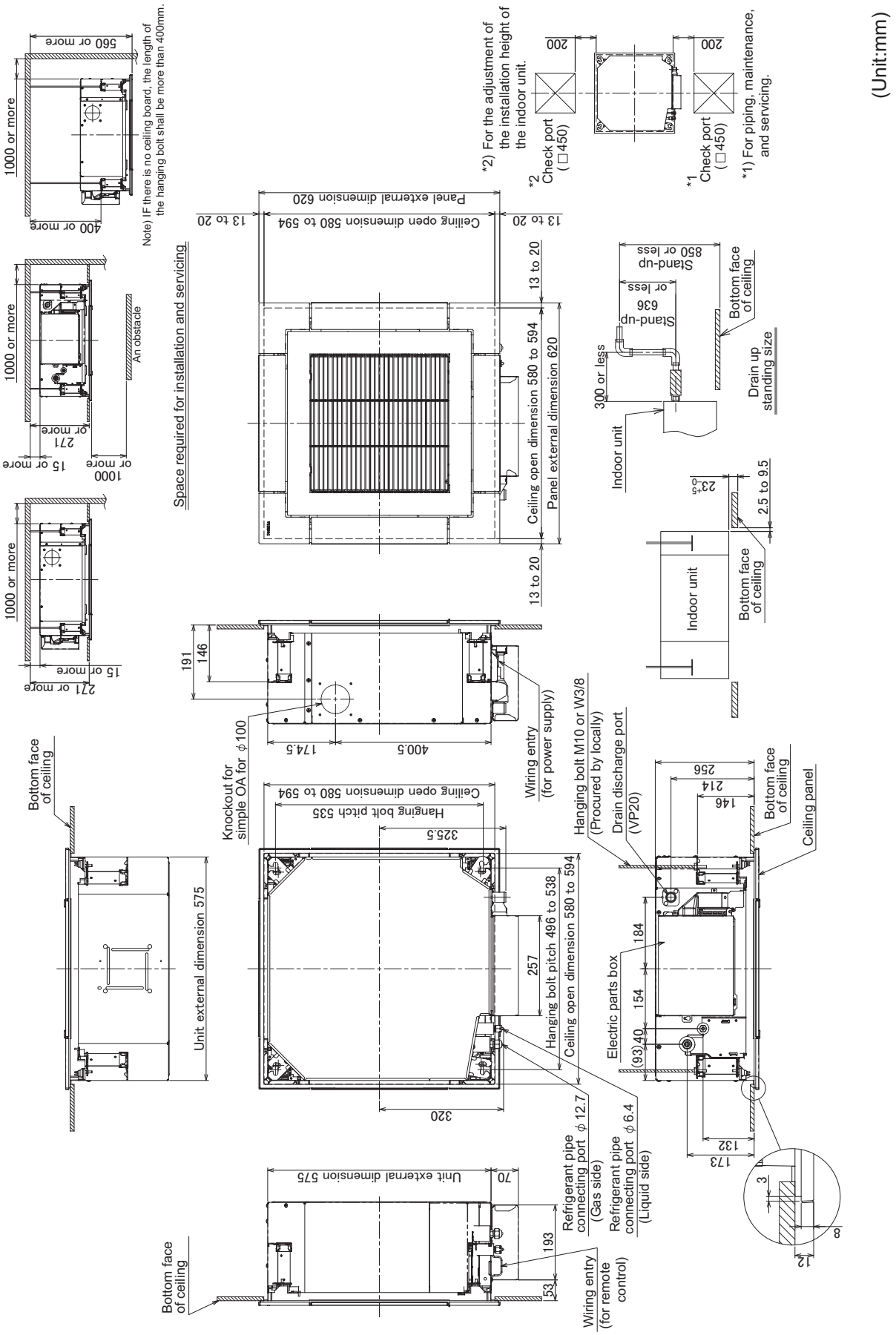
(*1) Cooling / heating capacity is based on single connection operation with standard piping length under Japanese Industrial Standard B 8615 Condition 1.
(*2) Remote controller and ceiling panel are sold separately.
(*3) Height from the ceiling.
(*4) Depth doesn't including the Erectric parts box.

2. Dimensions

MMU-UP0051MH-E, MMU-UP0071MH-E, MMU-UP0091MH-E, MMU-UP0121MH-E

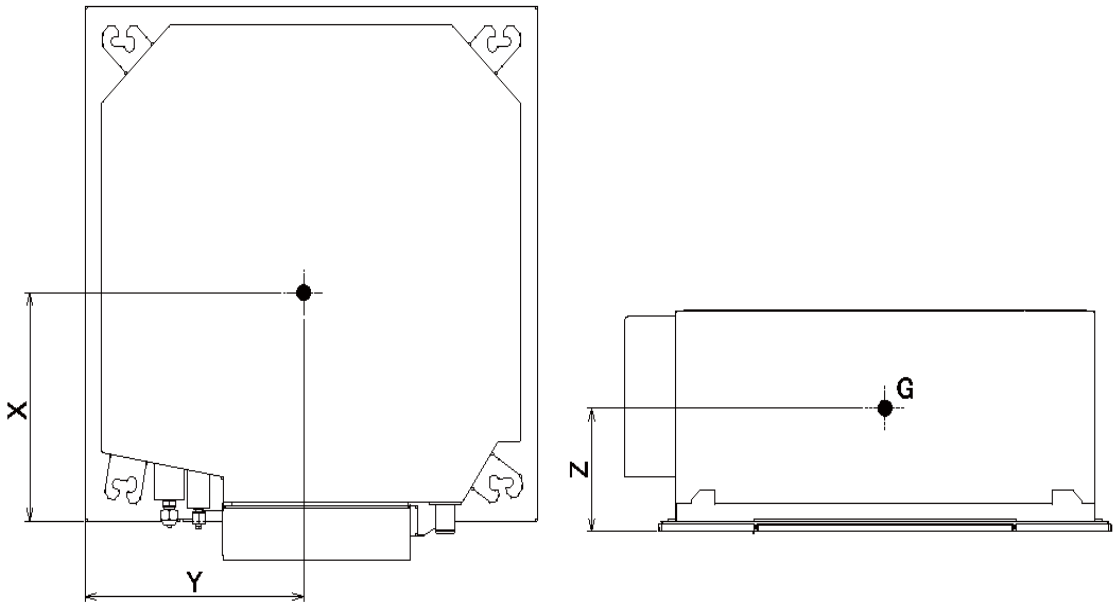


MMU-UP0151MH-E, MMU-UP0181MH-E

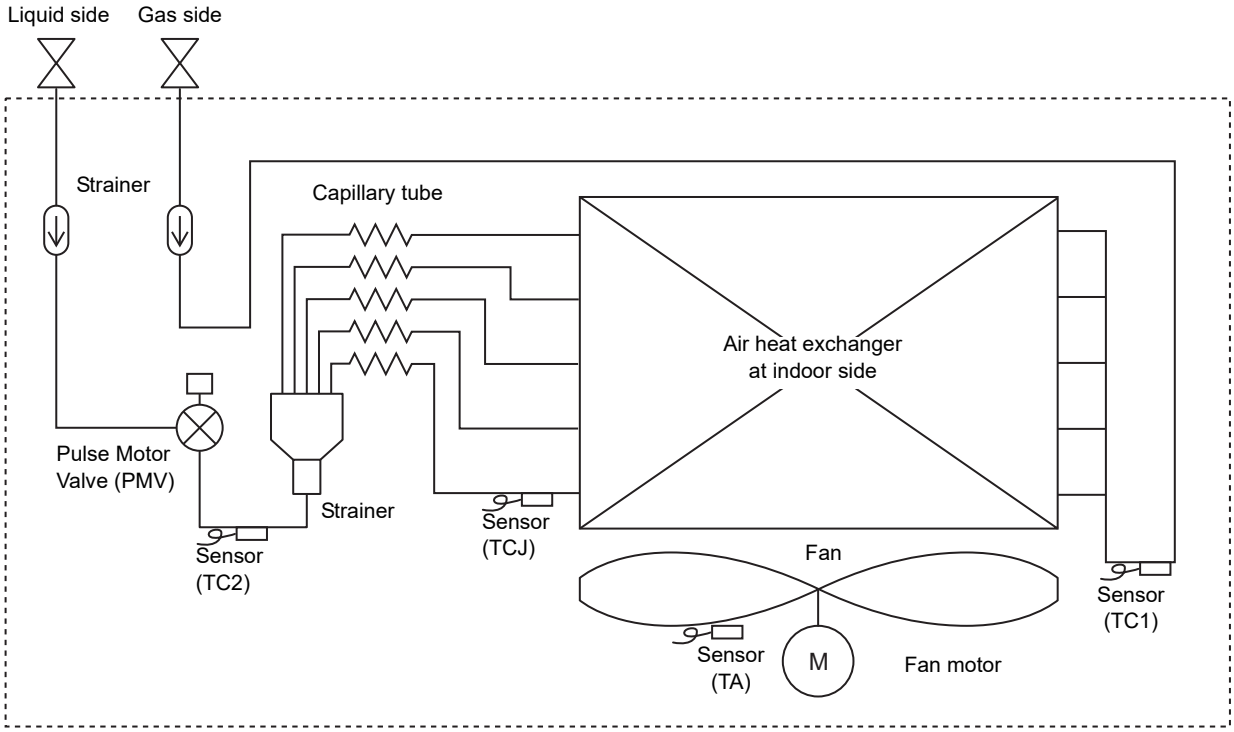


3. Center of gravity

Model name	X (mm)	Y (mm)	Z (mm)	Total weight	
				Main unit (kg)	Ceiling panel (kg)
MMU-UP0051MH-E	275	300	148	15	2.5
MMU-UP0071MH-E					
MMU-UP0091MH-E					
MMU-UP0121MH-E					
MMU-UP0151MH-E					
MMU-UP0181MH-E					



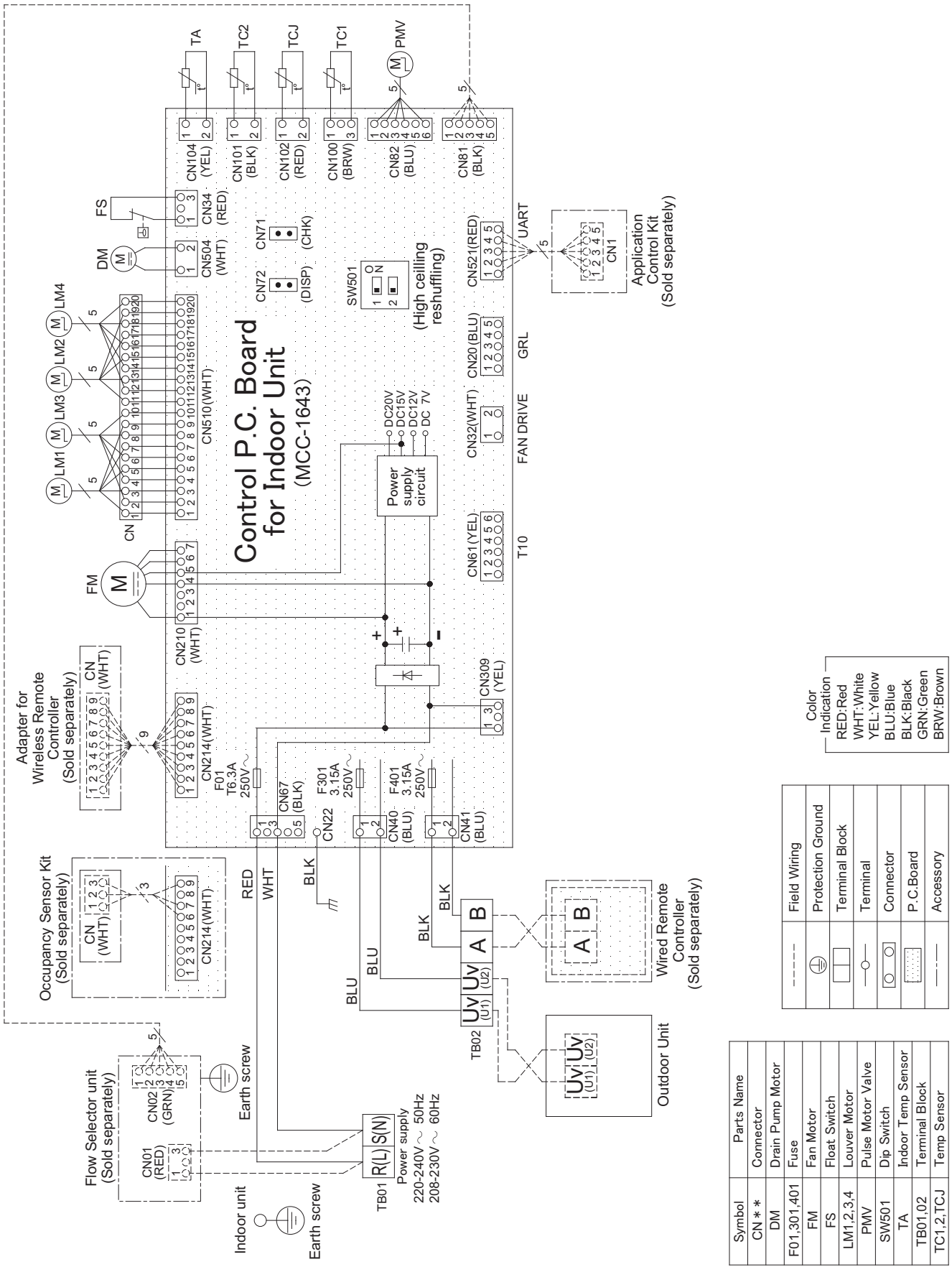
4. Piping diagram



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

MMU-UP0051MH-E, MMU-UP0071MH-E, MMU-UP0091MH-E, MMU-UP0121MH-E, MMU-UP0151MH-E, MMU-UP0181MH-E



Symbol	Parts Name
CN＊＊	Connector
DM	Drain Pump Motor
F01,301,401	Fuse
FM	Fan Motor
FS	Float Switch
LM1,2,3,4	Louver Motor
PMV	Pulse Motor Valve
SW501	Dip Switch
TA	Indoor Temp Sensor
TB01,02	Terminal Block
TC1,2,TCJ	Temp Sensor

6. Electrical characteristics

50Hz

Type	Model name	Normal Voltage (V-Ph-Hz)	Voltage Range		Fan Motor		Power Supply	
			Min.	Max.	kW	FLA	MCA	MOCP
Compact 4-way Cassette Type	MMU-UP0051MH-E	230-1-50	198	264	0.060	0.18	0.23	15
	MMU-UP0071MH-E	230-1-50	198	264	0.060	0.26	0.33	15
	MMU-UP0091MH-E	230-1-50	198	264	0.060	0.28	0.35	15
	MMU-UP0121MH-E	230-1-50	198	264	0.060	0.29	0.36	15
	MMU-UP0151MH-E	230-1-50	198	264	0.060	0.32	0.40	15
	MMU-UP0181MH-E	230-1-50	198	264	0.060	0.53	0.66	15

60Hz

Type	Model name	Normal Voltage (V-Ph-Hz)	Voltage Range		Fan Motor		Power Supply	
			Min.	Max.	kW	FLA	MCA	MOCP
Compact 4-way Cassette Type	MMU-UP0051MH-E	220-1-60	198	242	0.060	0.17	0.22	15
	MMU-UP0071MH-E	220-1-60	198	242	0.060	0.24	0.30	15
	MMU-UP0091MH-E	220-1-60	198	242	0.060	0.25	0.32	15
	MMU-UP0121MH-E	220-1-60	198	242	0.060	0.26	0.33	15
	MMU-UP0151MH-E	220-1-60	198	242	0.060	0.30	0.37	15
	MMU-UP0181MH-E	220-1-60	198	242	0.060	0.53	0.66	15

MCA : Minimum Circuit Amps
MOCP : Maximum Overcurrent Protection (Amps)
FLA : Full Load Amps
kW : Fan Motor Rated Output

7. Sensible capacity table

Compact 4-way Cassette Type (MMU-UP_1MH-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
005	10	1.4	1.3	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.5	1.9	1.5	1.9	1.5
	12	1.4	1.3	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.5	1.9	1.5	1.9	1.5
	14	1.4	1.3	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.5	1.9	1.5	1.9	1.5
	16	1.4	1.3	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.5	1.9	1.5	1.9	1.5
	18	1.4	1.3	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.5	1.9	1.5	1.9	1.5
	20	1.4	1.3	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.5	1.9	1.5	1.9	1.5
	21	1.4	1.3	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.5	1.9	1.5	1.9	1.5
	23	1.4	1.3	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.5	1.9	1.5	1.9	1.5
	25	1.4	1.3	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.5	1.9	1.5	1.9	1.5
	27	1.4	1.3	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.5	1.9	1.5	1.9	1.5
	29	1.4	1.3	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.5	1.9	1.5	1.9	1.5
	31	1.4	1.3	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.5	1.9	1.5	1.9	1.5
	33	1.4	1.3	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.5	1.9	1.5	1.9	1.5
	35	1.4	1.3	1.5	1.4	1.6	1.5	1.7	1.5	1.8	1.5	1.9	1.5	1.9	1.5
007	10	1.8	1.6	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.8	2.5	1.7
	12	1.8	1.6	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.8	2.5	1.7
	14	1.8	1.6	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.8	2.5	1.7
	16	1.8	1.6	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.8	2.5	1.7
	18	1.8	1.6	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.8	2.5	1.7
	20	1.8	1.6	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.8	2.5	1.7
	21	1.8	1.6	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.8	2.5	1.7
	23	1.8	1.6	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.8	2.5	1.7
	25	1.8	1.6	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.8	2.5	1.7
	27	1.8	1.6	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.8	2.5	1.7
	29	1.8	1.6	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.8	2.5	1.7
	31	1.8	1.6	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.8	2.5	1.7
	33	1.8	1.6	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.8	2.5	1.7
	35	1.8	1.6	2.0	1.7	2.1	1.8	2.2	1.8	2.3	1.8	2.4	1.8	2.5	1.7
009	10	2.3	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.2	3.2	2.1
	12	2.3	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.2	3.2	2.1
	14	2.3	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.2	3.2	2.1
	16	2.3	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.2	3.2	2.1
	18	2.3	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.2	3.2	2.1
	20	2.3	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.2	3.2	2.1
	21	2.3	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.2	3.2	2.1
	23	2.3	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.2	3.2	2.1
	25	2.3	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.2	3.2	2.1
	27	2.3	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.2	3.2	2.1
	29	2.3	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.2	3.2	2.1
	31	2.3	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.2	3.2	2.1
	33	2.3	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.2	3.2	2.1
	35	2.3	2.0	2.5	2.1	2.7	2.2	2.8	2.2	2.9	2.2	3.1	2.2	3.2	2.1

TC : Total capacity [kW]
SHC: Sensible capacity [kW]

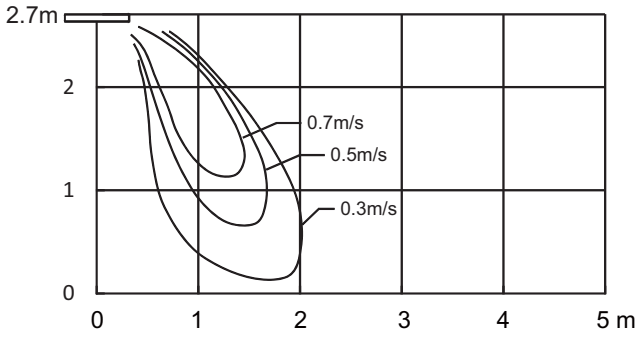
Compact 4-way Cassette Type (MMU-UP_1MH-E)

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
012	10	3.0	2.4	3.3	2.5	3.5	2.7	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	12	3.0	2.4	3.3	2.5	3.5	2.7	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	14	3.0	2.4	3.3	2.5	3.5	2.7	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	16	3.0	2.4	3.3	2.5	3.5	2.7	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	18	3.0	2.4	3.3	2.5	3.5	2.7	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	20	3.0	2.4	3.3	2.5	3.5	2.7	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	21	3.0	2.4	3.3	2.5	3.5	2.7	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	23	3.0	2.4	3.3	2.5	3.5	2.7	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	25	3.0	2.4	3.3	2.5	3.5	2.7	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	27	3.0	2.4	3.3	2.5	3.5	2.7	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	29	3.0	2.4	3.3	2.5	3.5	2.7	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	31	3.0	2.4	3.3	2.5	3.5	2.7	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	33	3.0	2.4	3.3	2.5	3.5	2.7	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
	35	3.0	2.4	3.3	2.5	3.5	2.7	3.6	2.7	3.7	2.7	3.9	2.7	4.1	2.6
015	10	3.7	2.9	4.1	3.1	4.4	3.3	4.5	3.3	4.6	3.3	4.9	3.3	5.1	3.2
	12	3.7	2.9	4.1	3.1	4.4	3.3	4.5	3.3	4.6	3.3	4.9	3.3	5.1	3.2
	14	3.7	2.9	4.1	3.1	4.4	3.3	4.5	3.3	4.6	3.3	4.9	3.3	5.1	3.2
	16	3.7	2.9	4.1	3.1	4.4	3.3	4.5	3.3	4.6	3.3	4.9	3.3	5.1	3.2
	18	3.7	2.9	4.1	3.1	4.4	3.3	4.5	3.3	4.6	3.3	4.9	3.3	5.1	3.2
	20	3.7	2.9	4.1	3.1	4.4	3.3	4.5	3.3	4.6	3.3	4.9	3.3	5.1	3.2
	21	3.7	2.9	4.1	3.1	4.4	3.3	4.5	3.3	4.6	3.3	4.9	3.3	5.1	3.2
	23	3.7	2.9	4.1	3.1	4.4	3.3	4.5	3.3	4.6	3.3	4.9	3.3	5.1	3.2
	25	3.7	2.9	4.1	3.1	4.4	3.3	4.5	3.3	4.6	3.3	4.9	3.3	5.1	3.2
	27	3.7	2.9	4.1	3.1	4.4	3.3	4.5	3.3	4.6	3.3	4.9	3.3	5.1	3.2
	29	3.7	2.9	4.1	3.1	4.4	3.3	4.5	3.3	4.6	3.3	4.9	3.3	5.1	3.2
	31	3.7	2.9	4.1	3.1	4.4	3.3	4.5	3.3	4.6	3.3	4.9	3.3	5.1	3.2
	33	3.7	2.9	4.1	3.1	4.4	3.3	4.5	3.3	4.6	3.3	4.9	3.3	5.1	3.2
	35	3.7	2.9	4.1	3.1	4.4	3.3	4.5	3.3	4.6	3.3	4.9	3.3	5.1	3.2
018	10	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	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	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	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	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	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	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	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	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	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	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	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	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	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

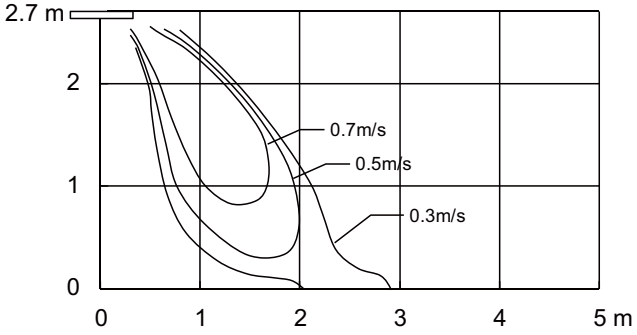
TC : Total capacity [kW]
SHC: Sensible capacity [kW]

8. Air flow distance chart

MMU-UP0051MH-E



MMU-UP0071MH-E



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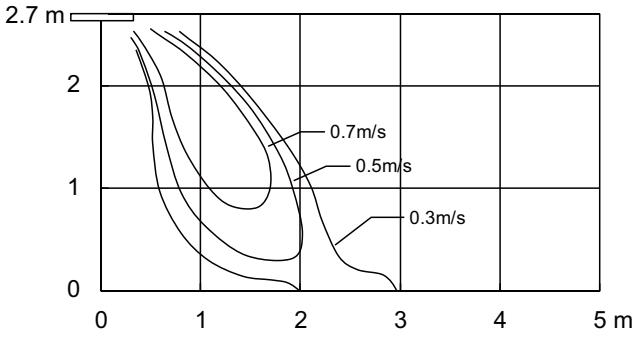

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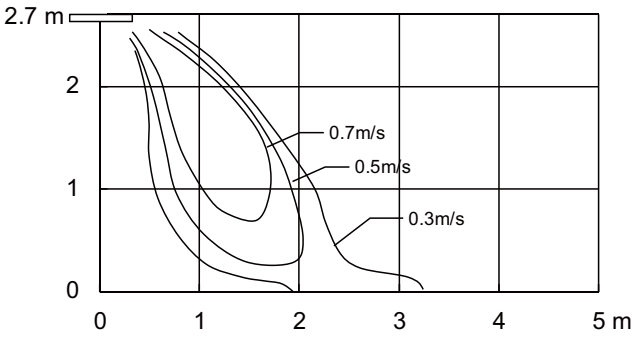

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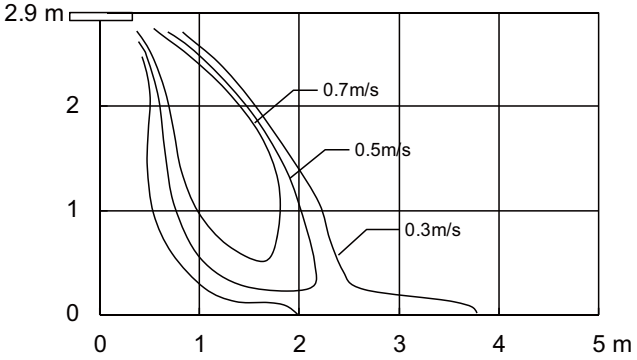

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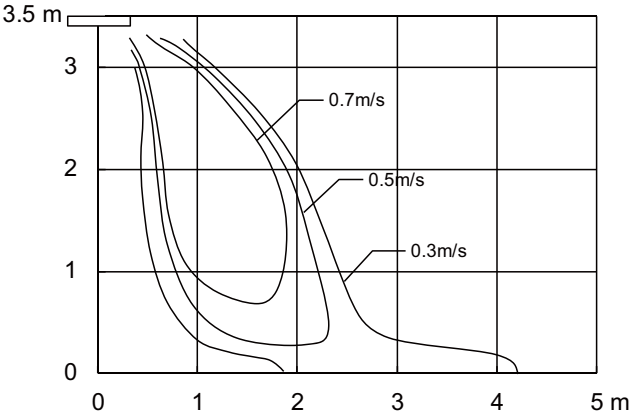
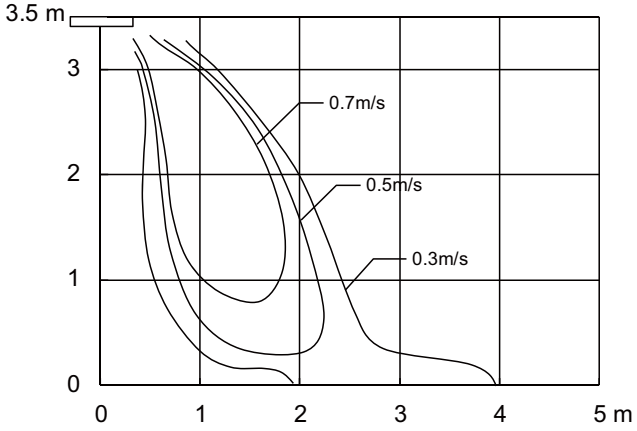
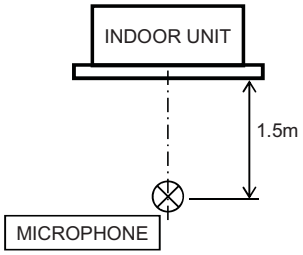


MMU-UP0151MH-E (High ceiling mode)



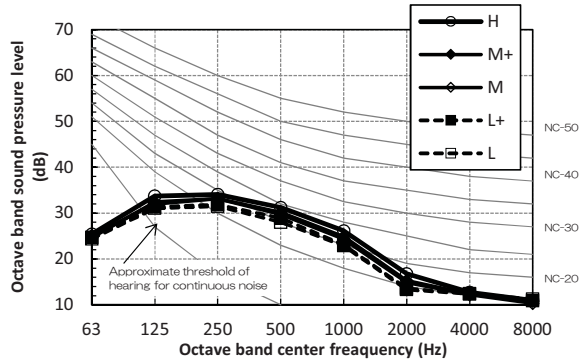
9. Sound data

Sound pressure spectrum



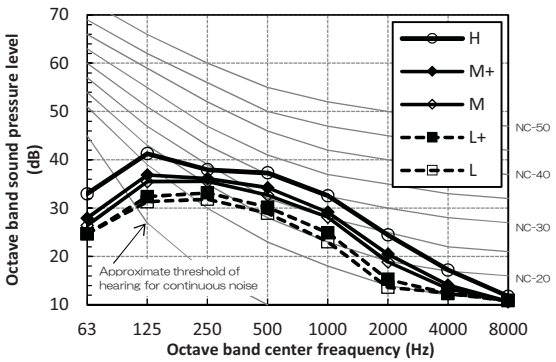
MMU-UP0051MH-E

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	32	31	30	29	29



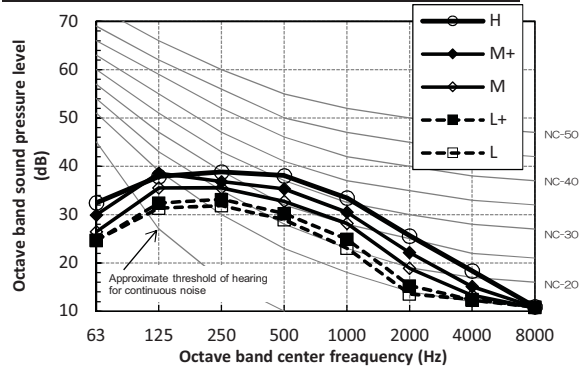
MMU-UP0071MH-E

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	37	34	33	30	29



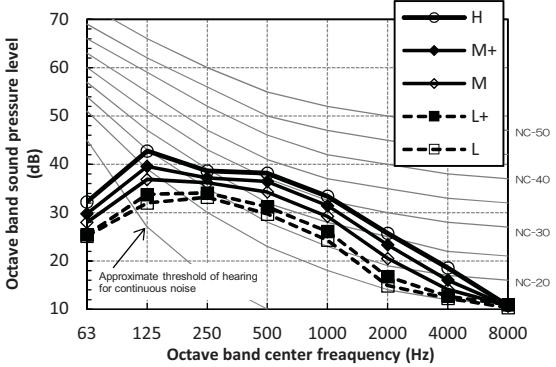
MMU-UP0091MH-E

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	38	35	33	30	29



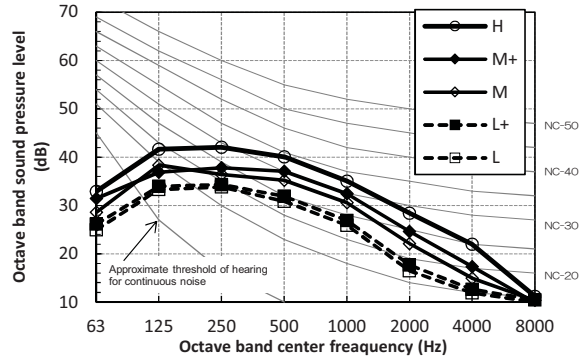
MMU-UP0121MH-E

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	38	36	34	31	30



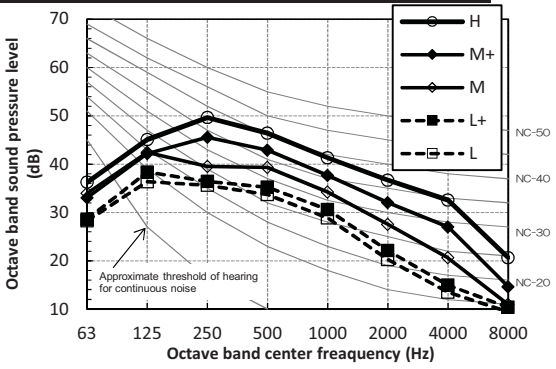
MMU-UP0151MH-E

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	40	37	35	32	31



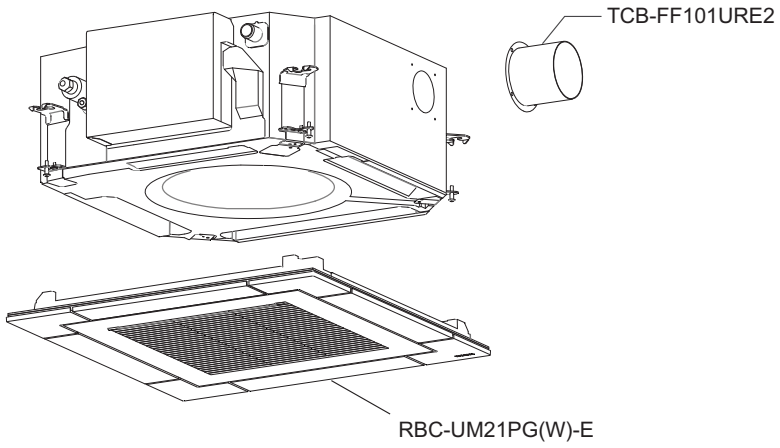
MMU-UP0181MH-E

Fan tap	H	M+	M	L+	L
Sound pressure level (dB(A))	47	43	39	36	34



10. Accessories

Optional accessories



Parts Name	Model name	Applied Model	Notes
Ceiling panel	RBC-UM21PG(W)-E	MMU-UP_1MH-E	Required accessory
Auxiliary fresh air Flange	TCB-FF101URE2		For easy fresh air intake by using the knockout hole of indoor unit. (dia=100 mm)

11. Reference

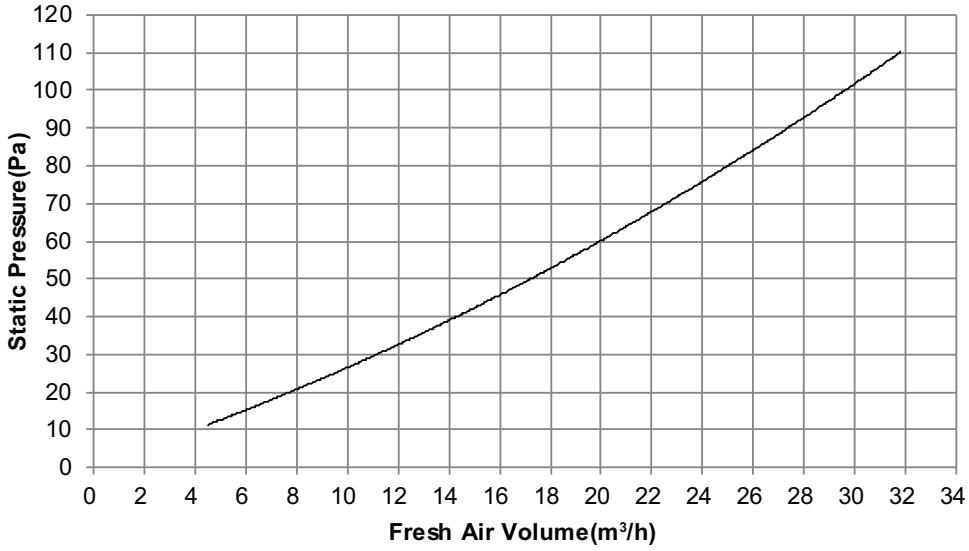
11-1.Fresh air intake (Design guide)

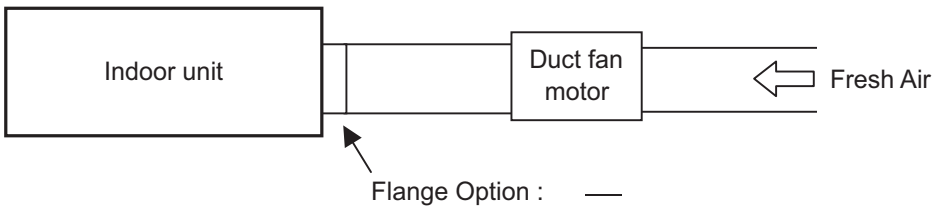
Caution

The fresh air shall be conditioned by a heat reclaim ventilator or similar.
Ensure the fresh air volume is determined so that mixed suction air and fresh air can maintain the operating temperature.
*1. Recommended conditioned air temperature is 12 °C to 30 °C.
However, Make a fresh air volume within 2% of standard.

Model name	MMU-	UP0051MH-E	UP0071MH-E	UP0091MH-E	UP0121MH-E	UP0151MH-E	UP0181MH-E
Standard air flow	m^3/h	430	552	570	594	660	840

Install a filter within the fresh air duct.
(Fresh air does not pass through the filter of Indoor unit.)
Insulate the fresh air duct.
Electrically connect the fan of the Heat exchanger unit and the Indoor unit to a single isolator.



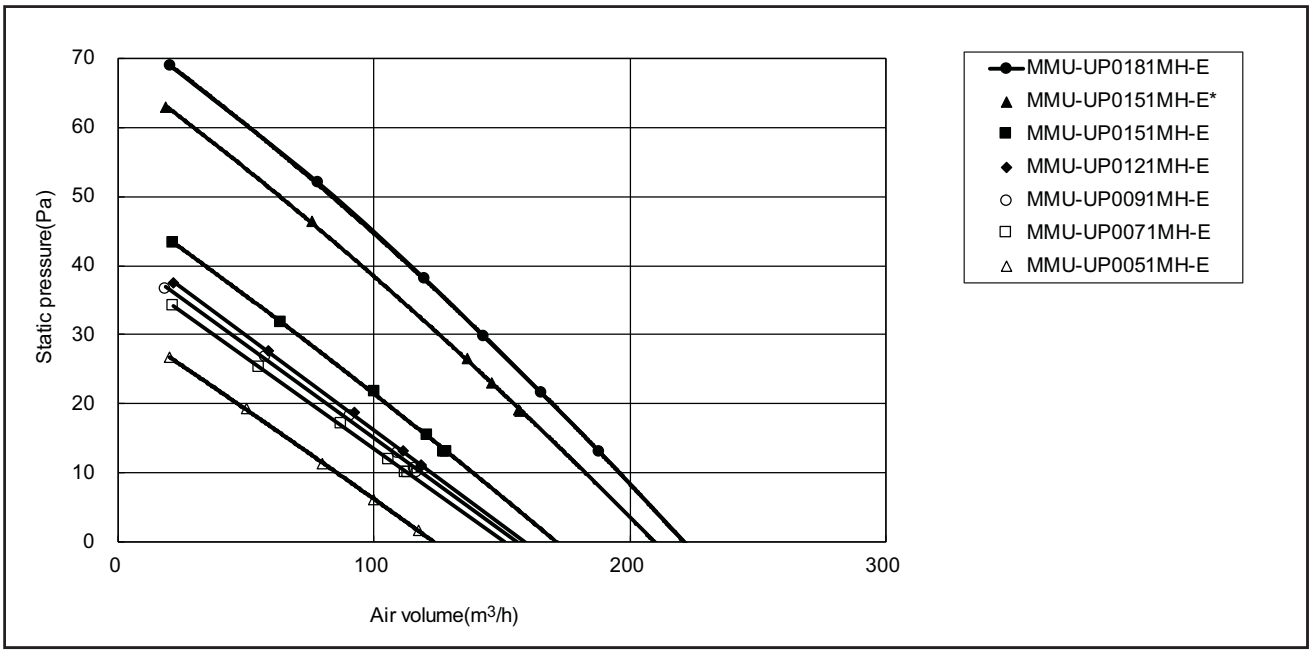


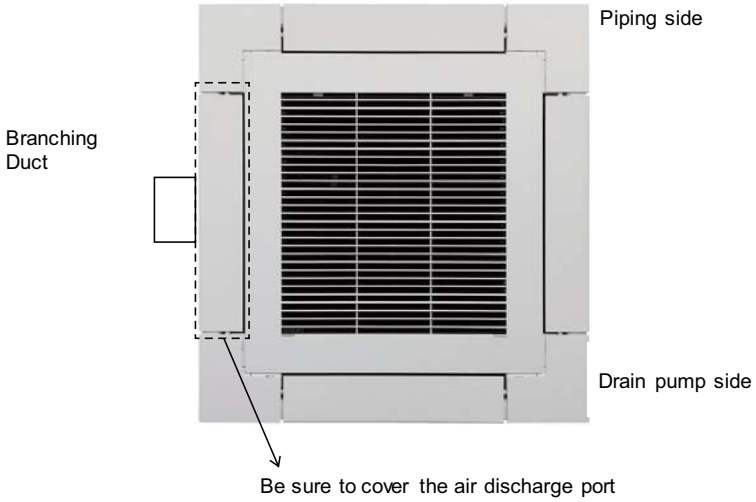
Inter - lock circuit

Connect the driving relay of the duct fan(DC 12V) between 1 and 6 on the indoor P.C. board.
(Rated current of the relay for duct fan should be up to 75mA.)
After installation, carry out a test run to check that the duct fan of the indoor unit start/stop simultaneously.
(Carry out the test run following the installation manual of the indoor unit.)

11-2.Branching duct (Design guide)

Characteristics between air volume of branching duct and static pressure





Compact 4-way Cassette Engineering Data Book

Model name:

MMU-UP_1MH-E

November, 2020

Toshiba Carrier Corporation