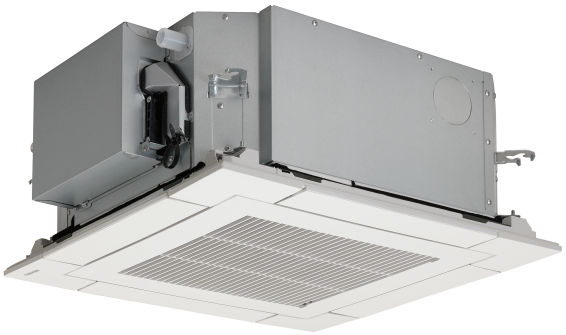
TOSHIBA
Leading Innovation >>>

E17-301

Compact 4-way Cassette Type

MMU-AP0057MH-E
MMU-AP0077MH-E
MMU-AP0097MH-E
MMU-AP0127MH-E
MMU-AP0157MH-E
MMU-AP0187MH-E



Contents

*EU market only

1. Specifications

Model name				MMU-AP0057MH-E	MMU-AP0077MH-E	MMU-AP0097MH-E
Cooling Capacity (*1)			kW	1.7	2.2	2.8
Heating Capacity (*1)			kW	1.9	2.5	3.2
Electrical characteristics	Power supply			1phase 50Hz 230V(220V-240V) (Separate power supply for indoor units is required.)		
	Running current		A	0.16	0.23	0.24
	Power consumption		kW	0.016	0.023	0.025
	Starting current		A	0.28	0.41	0.43
Appearance	Main Unit			Zinc hot dipping steel plate * Heat-insulating material attached to only upper plate		
	Ceiling Panel (*2)	Model Name		RBC-UM21PG(W)-E		
		Panel Color		Gran White (Mansell 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)
	Motor		W	60		
Air filter				Standard filter (Long life filter)		
Controller			(*2)	Remote controller		
Connecting pipe	Gas side		mm	φ 9.5		
	Liquid side		mm	φ 6.4		
Drain port (Nominal dia. mm)				VP20 (Polyvinyl chloride tube)		
Sound pressure level High (M+ / M / L+ / L)			dB	32 (31 / 30 / 29 / 29)	37 (34 / 33 / 30 / 29)	38 (35 / 33 / 30 / 29)
Sound power level High (M+ / M / L+ / L)			dB	47 (46 / 45 / 44 / 44)	52 (49 / 48 / 45 / 44)	53 (50 / 48 / 45 / 44)

(*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 Electric parts box.

(50Hz)

Model name				MMU-AP0127MH-E	MMU-AP0157MH-E	MMU-AP0187MH-E
Cooling Capacity (*1)			kW	3.6	4.5	5.6
Heating Capacity (*1)			kW	4.0	5.0	6.3
Electrical characteristics	Power supply			1phase 50Hz 230V(220V-240V) (Separate power supply for indoor units is required.)		
	Running current		A	0.25	0.28	0.46
	Power consumption		kW	0.027	0.030	0.052
	Starting current		A	0.44	0.50	0.80
Appearance	Main Unit			Zinc hot dipping steel plate * Heat-insulating material attached to only upper plate		
	Ceiling Panel (*2)	Model Name		RBC-UM21PG(W)-E		
		Panel Color		Gran White (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	594(550/504/420/402)	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	φ 9.5	φ 12.7	
	Liquid side		mm	φ 6.4		
Drain port (Nominal dia. mm)				VP20 (Polyvinyl chloride tube)		
Sound pressure level High (M+ / M / L+ / L)			dB	38 (36 / 34 / 31 / 30)	40 (37 / 35 / 32 / 31)	47 (43 / 39 / 36 / 34)
Sound power level High (M+ / M / L+ / L)			dB	53 (51 / 49 / 46 / 45)	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.

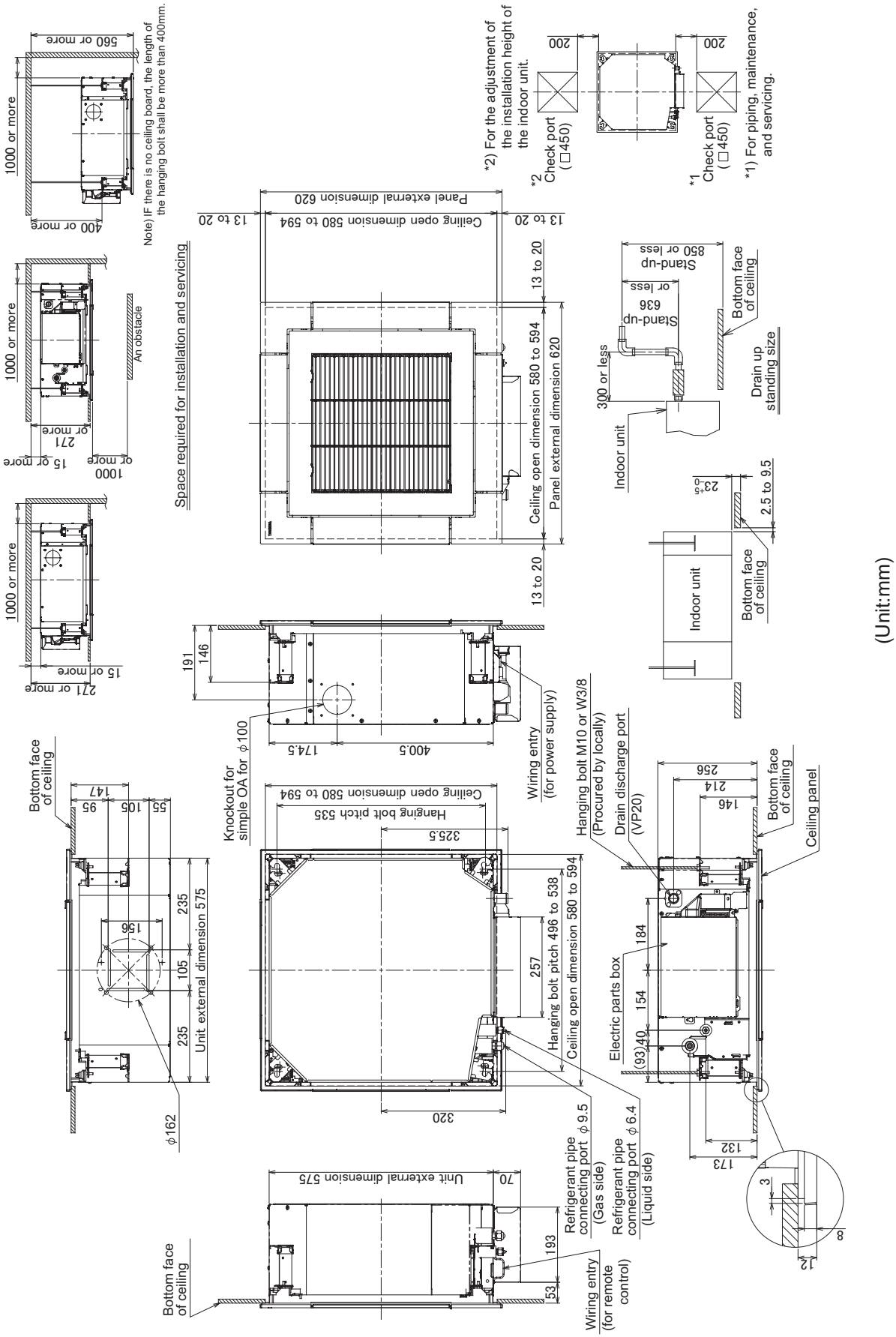
(*2) Remote controller and ceiling panel are sold separately

(*3) Height from the ceiling.

(*4) Depth doesn't including the Electric parts box.

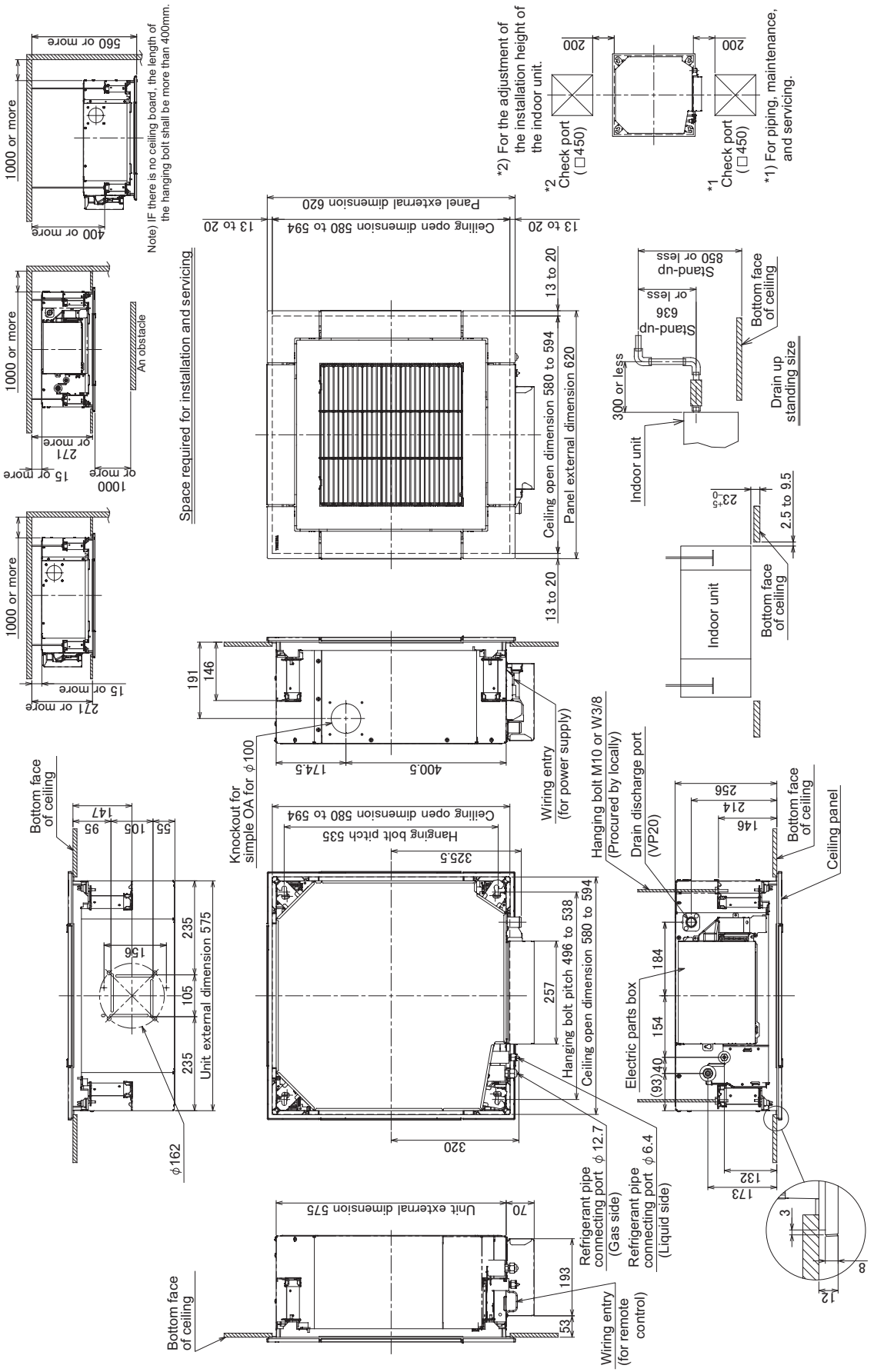
2. Dimensions

MMU-AP0057MH-E, MMU-AP0077MH-E, MMU-AP0097MH-E, MMU-AP0127MH-E



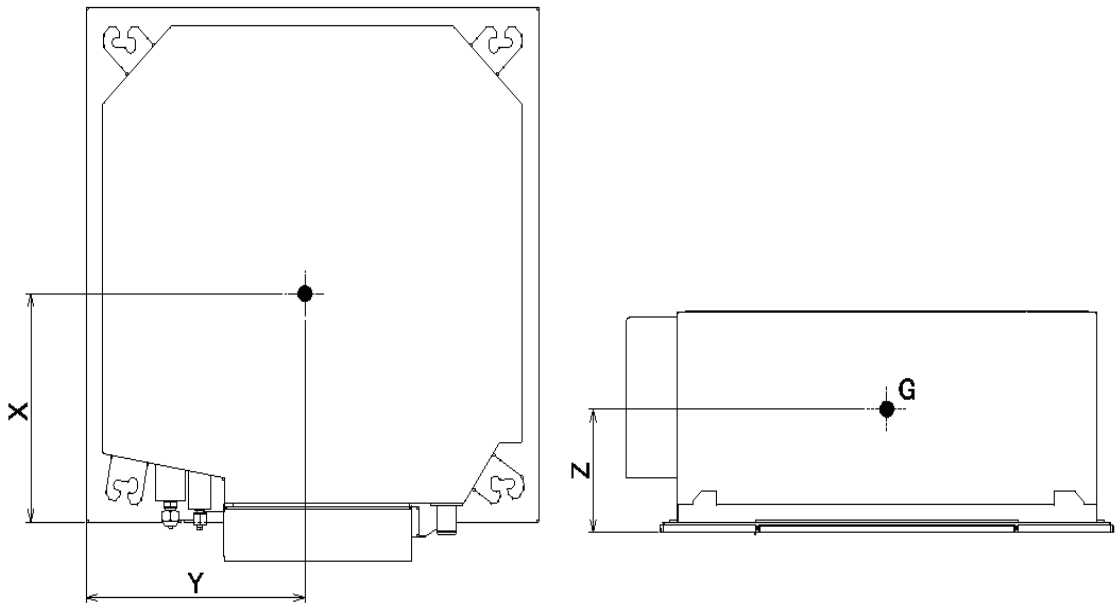
(Unit:mm)

MMU-AP0157MH-E, MMU-AP0187MH-E

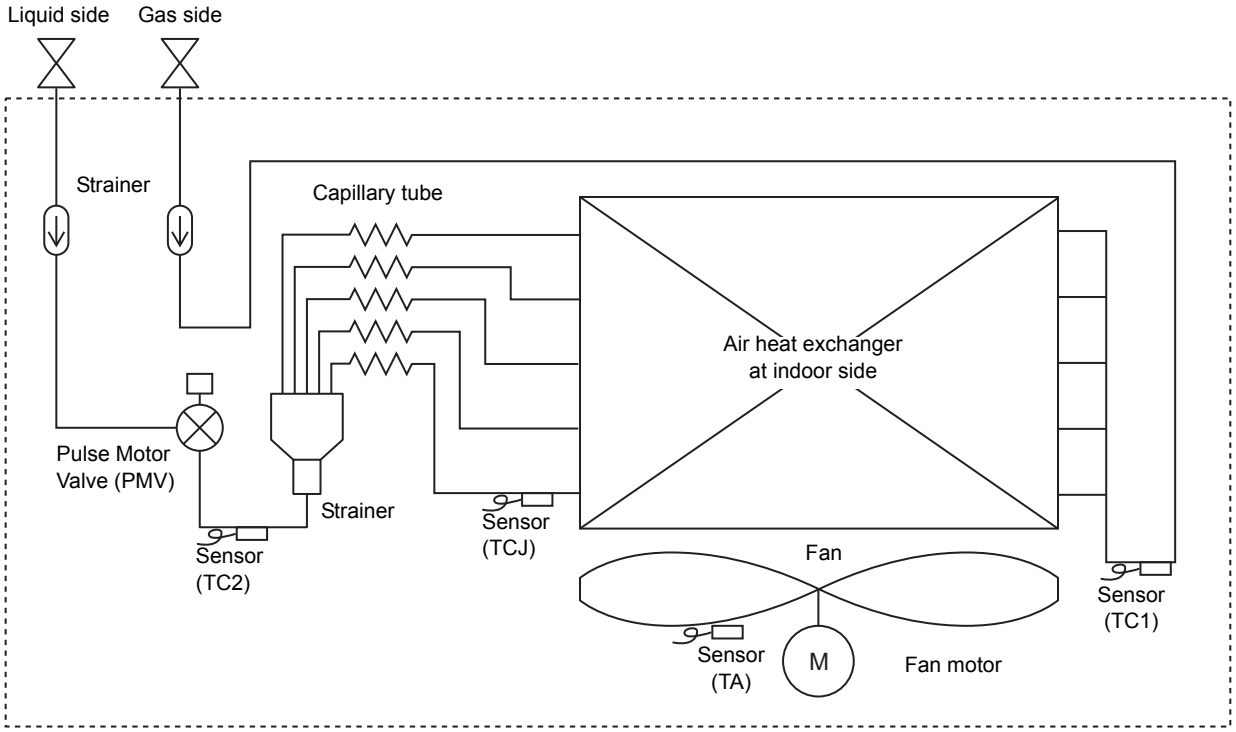


3. Center of gravity

Model name	X(mm)	Y(mm)	Z(mm)	Total weight	
				Main unit (kg)	Ceiling panel (kg)
MMU-AP0057MH-E	275	300	148	15	2.5
MMU-AP0077MH-E					
MMU-AP0097MH-E					
MMU-AP0127MH-E					
MMU-AP0157MH-E					
MMU-AP0187MH-E					



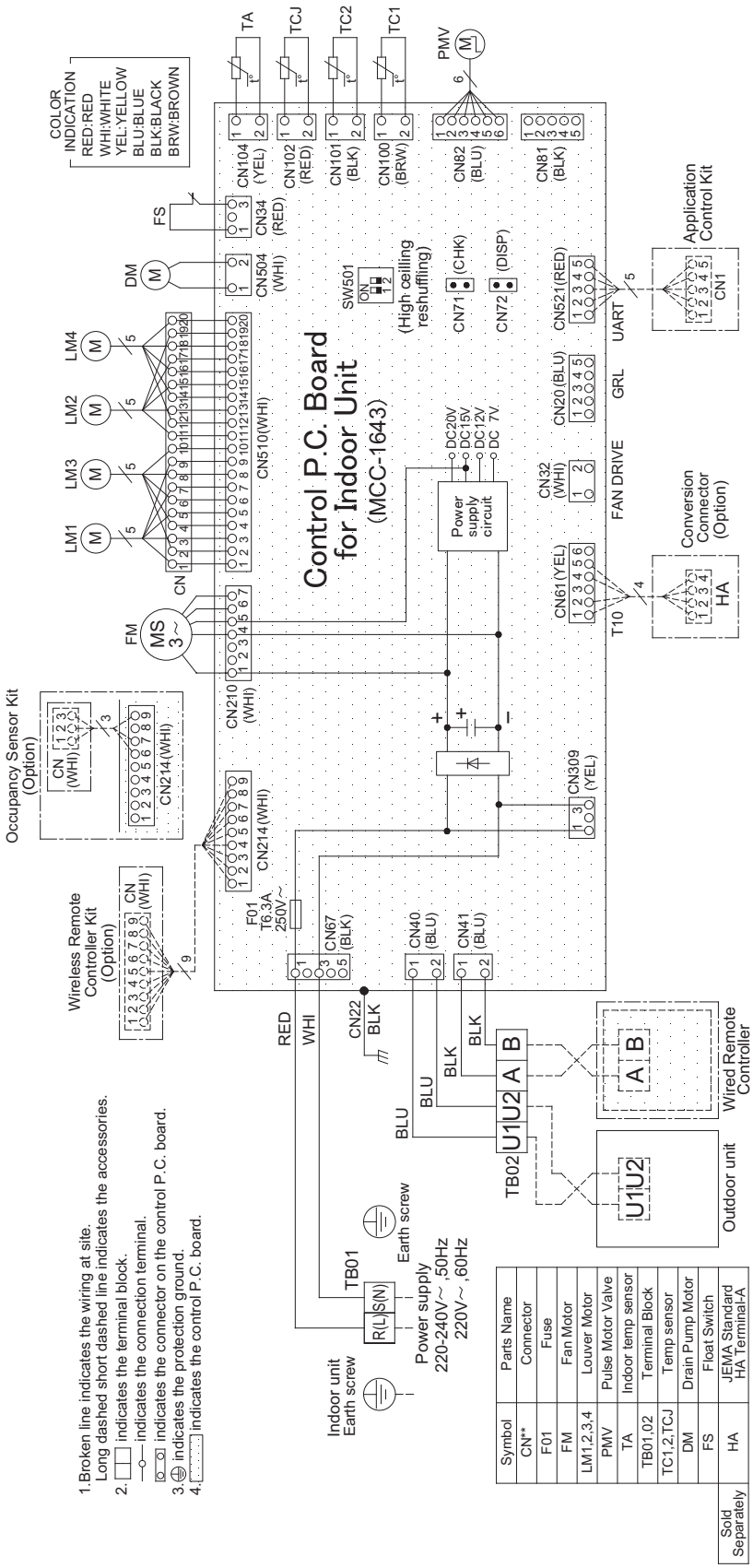
4. Piping diagram



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-AP0057MH-E, MMU-AP0077MH-E, MMU-AP0097MH-E, MMU-AP0127MH-E, MMU-AP0157MH-E, MMU-AP0187MH-E



6. Electrical characteristics

50 Hz

Model	Nominal Voltage (V-Ph-Hz)	Voltage Range		Fan Motor		Power Supply	
		Min	Max	kW	FLA	MCA	MOCP
MMU-AP0057MH-E	230-1-50	198	264	0.060	0.18	0.23	15
MMU-AP0077MH-E	230-1-50	198	264	0.060	0.26	0.33	15
MMU-AP0097MH-E	230-1-50	198	264	0.060	0.28	0.35	15
MMU-AP0127MH-E	230-1-50	198	264	0.060	0.29	0.36	15
MMU-AP0157MH-E	230-1-50	198	264	0.060	0.47	0.59	15
MMU-AP0187MH-E	230-1-50	198	264	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 (kW)

7. Sensible capacity table <For SMMS-e, SHRMS-e, MiNi-SMMS-e>

Compact 4-way Cassette Type (MMU-AP___7MH-E)

unit size	outdoor air temp. °CDB	indoor air temp.													
		14°CWB		16°CWB		18°CWB		19°CWB		20°CWB		22°CWB		24°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	1.2	1.5	1.3	1.6	1.4	1.7	1.4	1.8	1.4	1.9	1.4	1.9	1.4
	12	1.4	1.2	1.5	1.3	1.6	1.4	1.7	1.4	1.8	1.4	1.9	1.4	1.9	1.4
	14	1.4	1.2	1.5	1.3	1.6	1.4	1.7	1.4	1.8	1.4	1.9	1.4	1.9	1.4
	16	1.4	1.2	1.5	1.3	1.6	1.4	1.7	1.4	1.8	1.4	1.9	1.4	1.9	1.4
	18	1.4	1.2	1.5	1.3	1.6	1.4	1.7	1.4	1.8	1.4	1.9	1.4	1.9	1.4
	20	1.4	1.2	1.5	1.3	1.6	1.4	1.7	1.4	1.8	1.4	1.9	1.4	1.9	1.4
	21	1.4	1.2	1.5	1.3	1.6	1.4	1.7	1.4	1.8	1.4	1.9	1.4	1.9	1.4
	23	1.4	1.2	1.5	1.3	1.6	1.4	1.7	1.4	1.8	1.4	1.9	1.4	1.9	1.4
	25	1.4	1.2	1.5	1.3	1.6	1.4	1.7	1.4	1.8	1.4	1.9	1.4	1.9	1.4
	27	1.4	1.2	1.5	1.3	1.6	1.4	1.7	1.4	1.8	1.4	1.9	1.4	1.9	1.4
	29	1.4	1.2	1.5	1.3	1.6	1.4	1.7	1.4	1.8	1.4	1.9	1.4	1.9	1.4
	31	1.4	1.2	1.5	1.3	1.6	1.4	1.7	1.4	1.8	1.4	1.9	1.4	1.9	1.4
	33	1.4	1.2	1.5	1.3	1.6	1.4	1.7	1.4	1.8	1.4	1.9	1.4	1.9	1.4
	35	1.4	1.2	1.5	1.3	1.6	1.4	1.7	1.4	1.8	1.4	1.9	1.4	1.9	1.4
	37	1.4	1.2	1.5	1.3	1.6	1.4	1.6	1.4	1.7	1.4	1.8	1.3	1.9	1.3
	39	1.3	1.2	1.4	1.2	1.5	1.3	1.6	1.3	1.6	1.3	1.7	1.3	1.8	1.3
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
	37	1.8	1.5	1.9	1.6	2.1	1.8	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7
	39	1.7	1.5	1.9	1.6	2.0	1.7	2.0	1.7	2.1	1.7	2.2	1.7	2.3	1.6
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
	37	2.2	1.9	2.5	2.0	2.6	2.1	2.7	2.1	2.8	2.1	3.0	2.1	3.1	2.1
	39	2.1	1.8	2.4	1.9	2.5	2.0	2.6	2.0	2.7	2.0	2.8	2.0	3.0	2.0

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

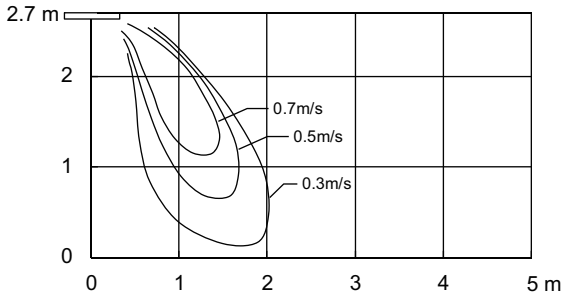
Compact 4-way Cassette Type (MMU-AP___7MH-E) <For SMMS-e, SHRMS-e, MiNi-SMMS-e>

unit size	outdoor air temp. °CDB	indoor air temp. 14°CWB 20°CDB		16°CWB 23°CDB		18°CWB 26°CDB		19°CWB 27°CDB		20°CWB 28°CDB		22°CWB 30°CDB		24°CWB 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
	37	2.9	2.3	3.2	2.5	3.4	2.6	3.5	2.6	3.6	2.6	3.8	2.6	4.0	2.5
	39	2.7	2.2	3.0	2.4	3.2	2.5	3.3	2.5	3.4	2.5	3.6	2.5	3.8	2.4
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
	37	3.6	2.8	4.0	3.0	4.2	3.2	4.4	3.2	4.5	3.2	4.8	3.2	5.0	3.1
	39	3.4	2.7	3.8	2.9	4.0	3.1	4.2	3.1	4.3	3.1	4.5	3.0	4.8	3.0
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
	37	4.5	3.5	4.9	3.8	5.3	4.0	5.4	4.0	5.6	4.0	5.9	3.9	6.2	3.8
	39	4.3	3.4	4.7	3.6	5.0	3.8	5.2	3.8	5.3	3.8	5.7	3.8	5.9	3.7

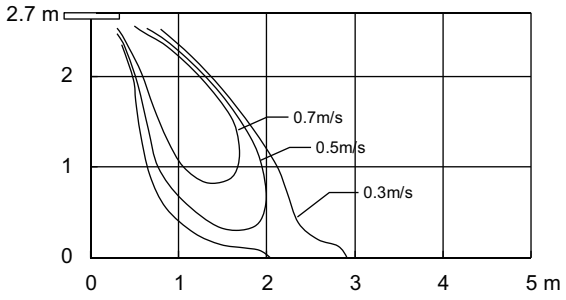
TC: Total capacity [kW]
SHC: Sensible capacity [kW]

8. Air flow distance chart

MMU-AP0057MH-E



MMU-AP0077MH-E



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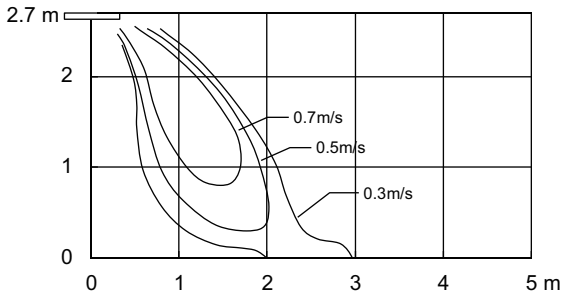
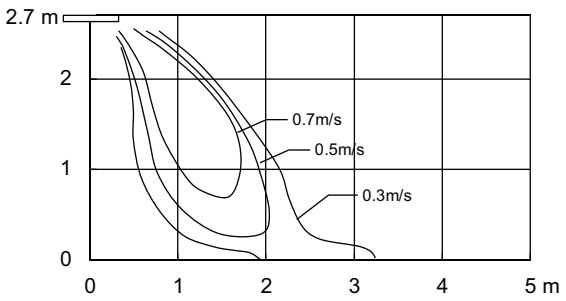


MMU-AP0127MH-E



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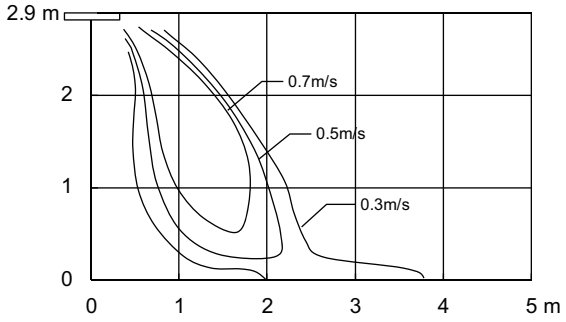
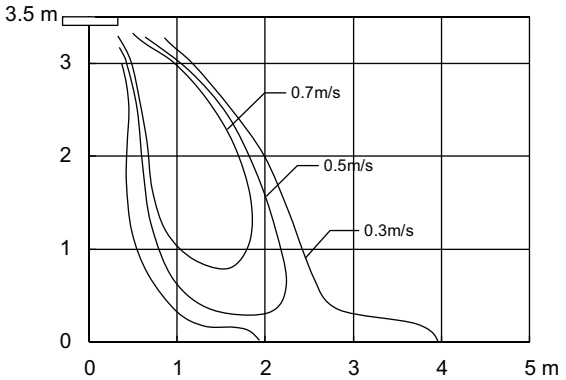
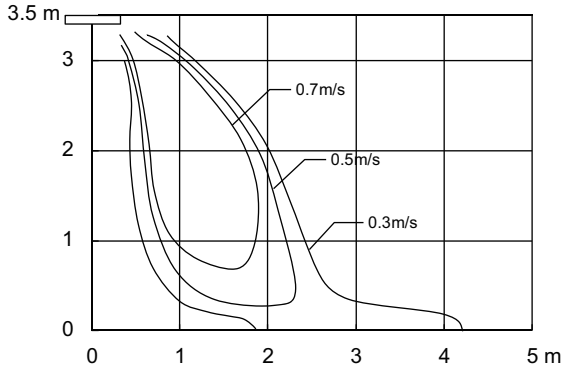


MMU-AP0157MH-E
(High ceiling mode)

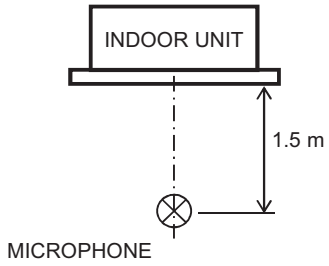


MMU-AP0187MH-E



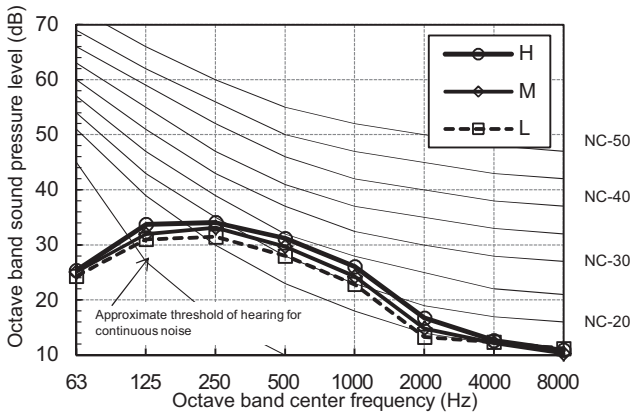
9. Sound data

Sound pressure spectrum



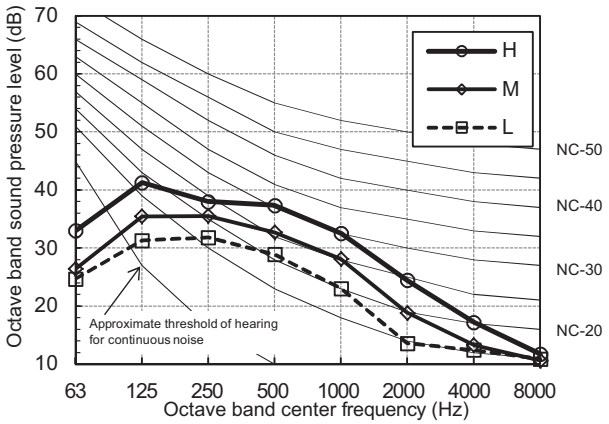
MMU-AP0057MH-E

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



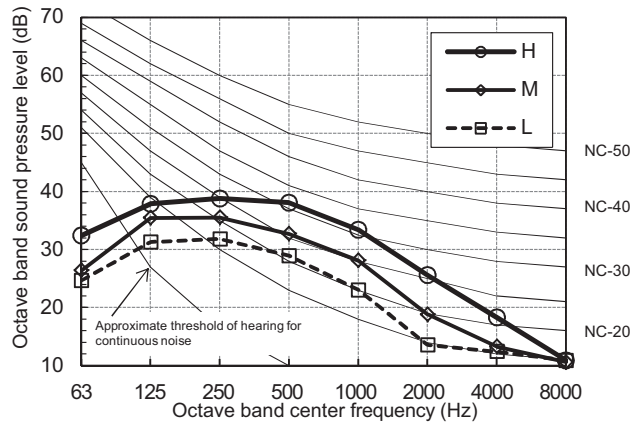
MMU-AP0077MH-E

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



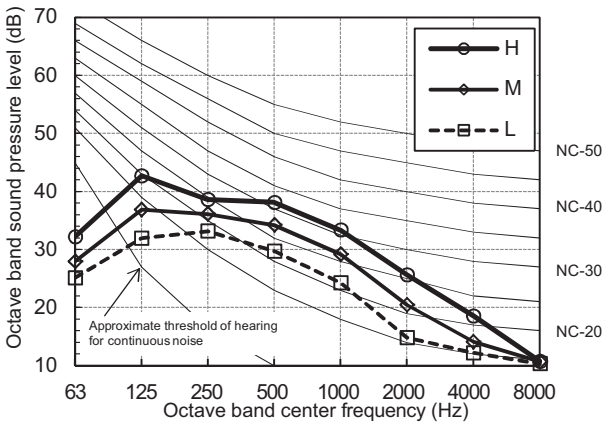
MMU-AP0097MH-E

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



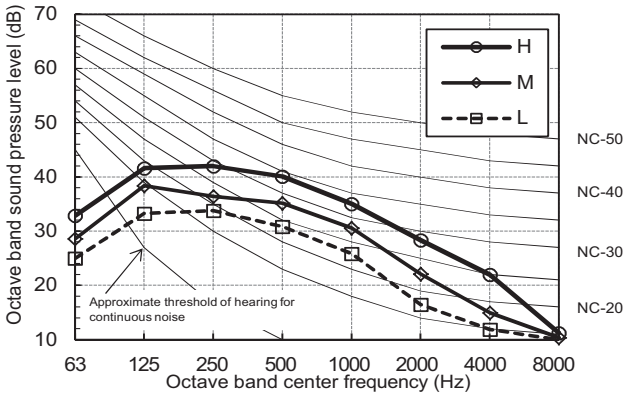
MMU-AP0127MH-E

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



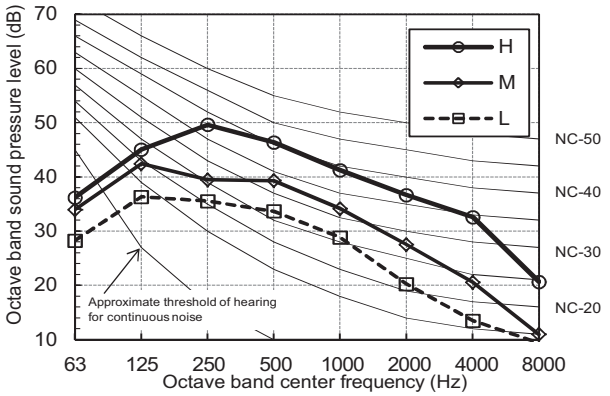
MMU-AP0157MH-E

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



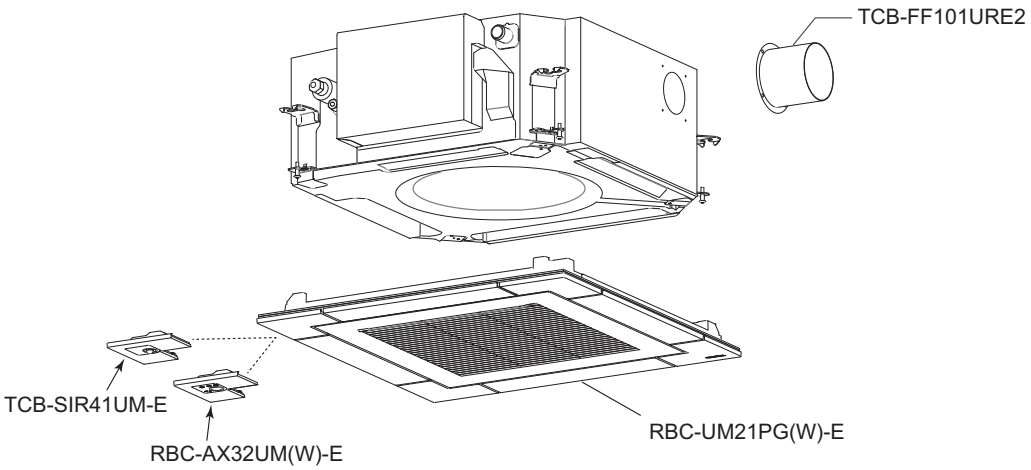
MMU-AP0187MH-E

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



10. Accessories

Optional accessories



Parts Name	Model name	Applied Model	Notes
Ceiling panel	RBC-UM21PG(W)-E	MMU-AP___7MH-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)
Wireless Remote Control kit	RBC-AX32UM(W)-E		Wireless remote control kit and Occupancy sensor cannot be used on the same indoor unit.
Occupancy Sensor	TCB-SIR41UM-E		

11. Reference

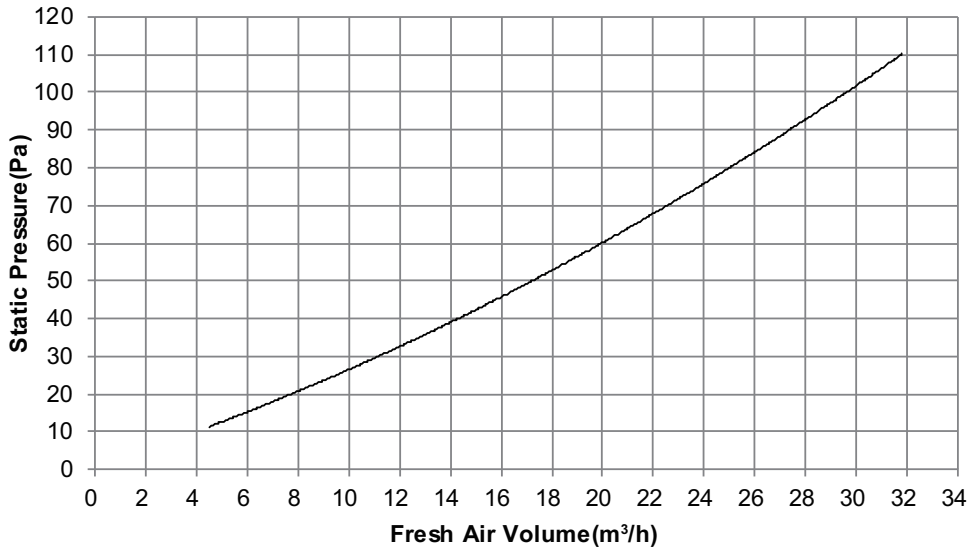
11-1. Fresh air intake

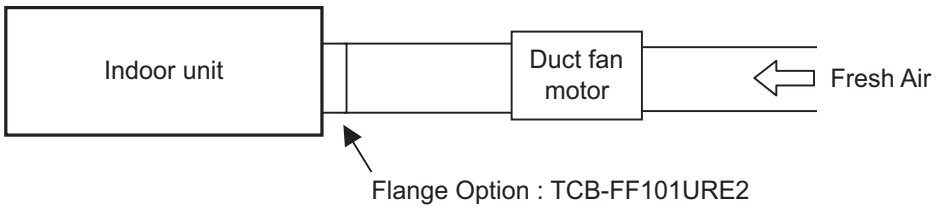
Caution

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-	AP0057MH-E	AP0077MH-E	AP0097MH-E	AP0127MH-E	AP0157MH-E	AP0187MH-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.



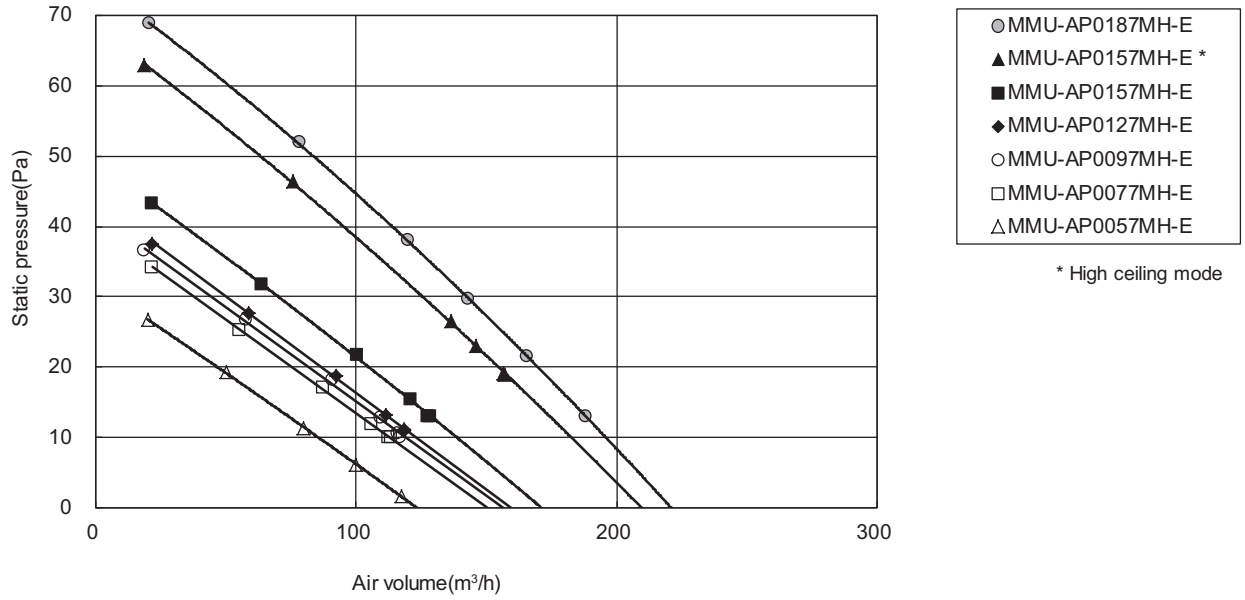


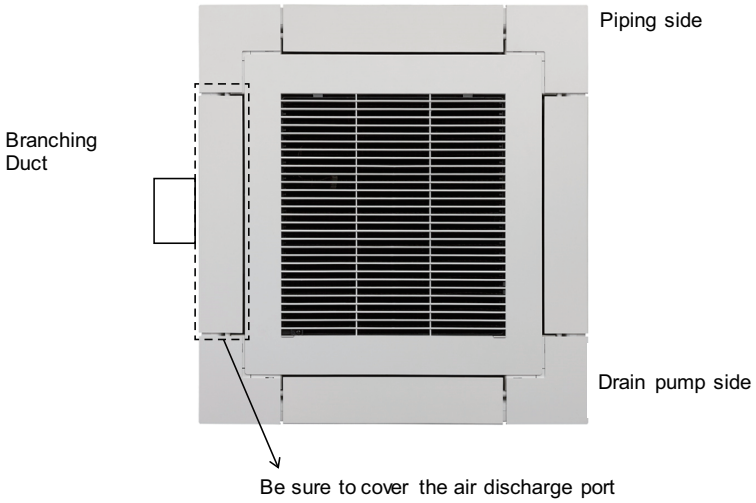
Inter - lock circuit

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

Characteristics between air volume of branching duct and static pressure





11-3. Ceiling height

Unit: m

Model MMU-	Installable ceiling height
AP005 to AP012 type	Up to 2.7
AP015 to AP018 type	Up to 3.5

When the height of the ceiling exceeds the distance of the item Standard / 4-way in below table, the warm air is difficult to reach the floor.
It is necessary to change the setup value of the high ceiling setting or discharge direction.

Height list of ceiling possible to be installed

Unit: m

Indoor unit Capacity type	AP005 to AP012 type	AP015 type	AP018 type
Discharge direction	4-way	4-way	4-way
Standard (At shipment)	2.7	2.9	3.5
High ceiling (2)	-	3.2	-
High ceiling (3)	-	3.5	-

Compact 4-way Cassette Type Engineering Data Book

Model name:

MMU-AP___7MH-E

February, 2017 First Edition

TOSHIBA CARRIER CORPORATION