4-way Cassette Type

MMU-UP0091H-E / MMU-UP0121H-E
MMU-UP0151H-E / MMU-UP0181H-E
MMU-UP0241H-E / MMU-UP0271H-E
MMU-UP0301H-E / MMU-UP0361H-E
MMU-UP0481H-E / MMU-UP0561H-E

Contents

Allocation standard of model name

M	M	U	-	U	P	*	*	*	*	H		-	E

MM	VRF FCU
Type of mounting	
U	Cassette
-	Dash (or hyphen)
Communication	
U	TU2C-link
Refrigerant	
P	R410A/R407C
***	Capacity
Development series number	
System	
H	Cooling/Heating
Factory	
(blank)	Japan
-	Dash (or hyphen)･･･In case of no codes after #17, “-” will not be used When model name has over 18 characters, “-” will not be used.
Classification Code for Destination	
E	Corresponding to European standard

1. Specifications

Model name			MMU-	UP0091H-E	UP0121H-E	UP0151H-E	UP0181H-E	UP0241H-E
Cooling / Heating capacity (*1)			kW	2.8 / 3.2	3.6 / 4.0	4.5 / 5.0	5.6 / 6.3	7.1 / 8.0
Electrical charastaristics	Power supply			1 phase 50 Hz 220 V - 240 V / 1 phase 60 Hz 208 V - 230 V				
	Running current		A	0.17 / 0.18	0.17 / 0.18	0.19 / 0.2	0.25 / 0.26	0.36 / 0.38
	Power consumption		kW	0.02	0.02	0.018	0.026	0.042
	Power factor		%	50	50	41	45	50
	Starting current		A	0.26 / 0.27	0.26 / 0.27	0.29 / 0.30	0.37 / 0.39	0.55 / 0.57
Appearance	Main Unit			Heat-instulating material attached Zinc hot dipping steel plate				
	Ceiling Panel	Model Name		RBC-U41PG(W)-E				
		Panel Color		White (2.5GY9.0/0.5)				
Outer dimension	Main Unit	Height	mm	256		319		
		Width	mm	840				
		Depth	mm	840				
	Ceiling Panel	Height	mm	30				
		Width	mm	950				
		Depth	mm	950				
Total weight	Main Unit		kg	18		25		
	Ceiling Panel		kg	5				
Heat exchanger				Finned tube				
Soundproof / Heat-insulating material				Non-flammable insulation				
Fan unit	Fan			Turbo fan				
	Standard air flow (H / M+ / M / L+ / L)		m³/h	846 / 792 / 768 / 738 / 708	846 / 792 / 768 / 738 / 708	1060 / 960 / 920 / 860 / 800	1260 / 1160 / 1100 / 1040 / 940	1580 / 1440 / 1300 / 1210 / 1120
	Motor		W	60		130		
Air filter				Standard filter (Long life filter)				
Controller				Remote controller				
Connecting pipe	Gas side		mm	Ø9.5		Ø12.7		Ø15.9
	Liquid side		mm	Ø6.4				Ø9.5
Drain port (Nominal dia. mm)			mm	25 (Polyvinyl chloride tube)				
Sound pressure level (H / M+ / M / L+ / L)			dB(A)	30 / 29 / 28 / 27 / 26	30 / 29 / 28 / 27 / 26	32 / 30 / 30 / 29 / 28	36 / 34 / 33 / 32 / 31	41 / 39 / 37 / 35 / 35
Sound power level (H / M+ / M / L+ / L)			dB(A)	45 / 44 / 43 / 42 / 42	45 / 44 / 43 / 42 / 42	46 / 45 / 44 / 43 / 42	50 / 48 / 47 / 46 / 45	55 / 53 / 51 / 49 / 48

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.

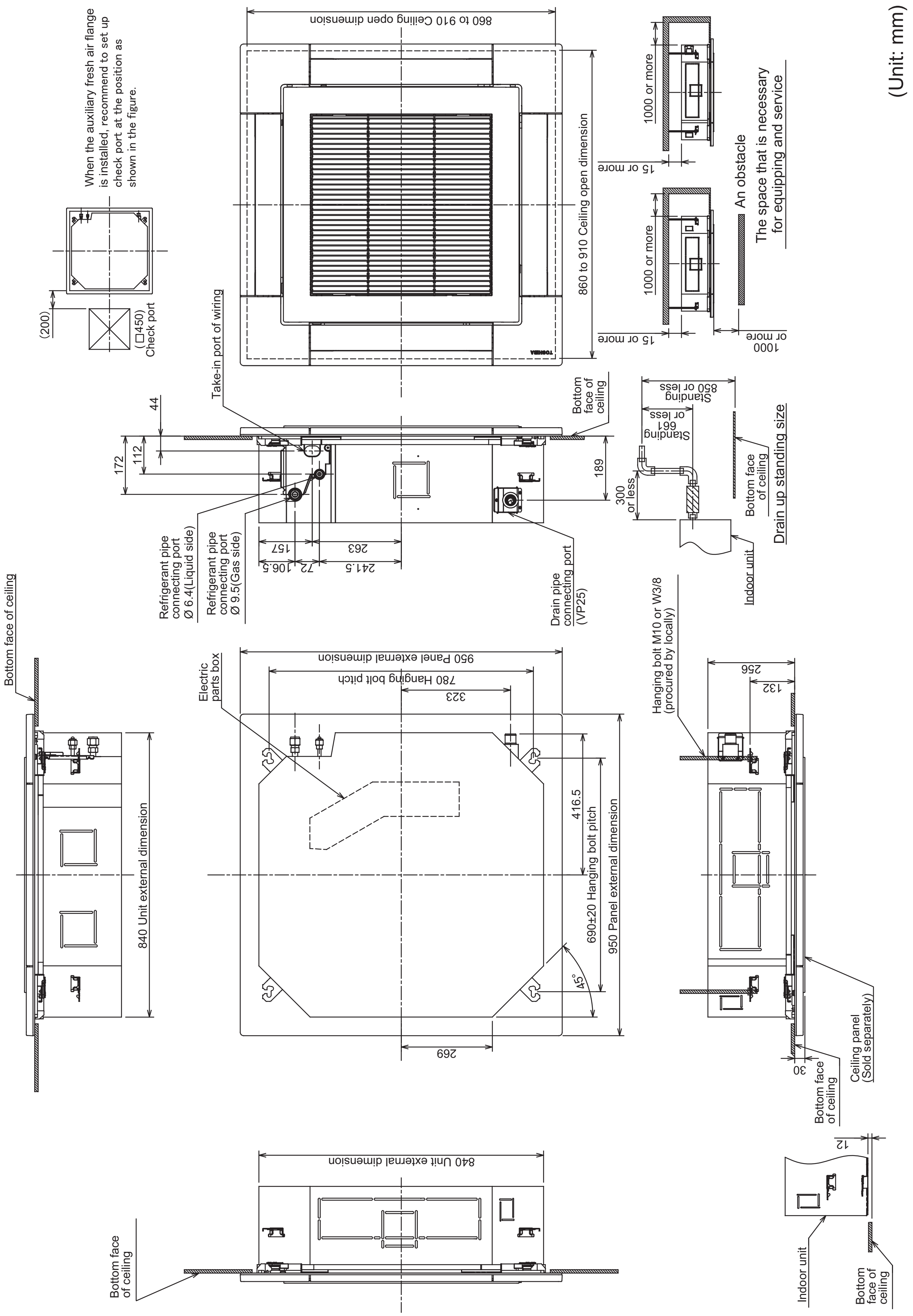
Model name			MMU-	UP0271H-E	UP0301H-E	UP0361H-E	UP0481H-E	UP0561H-E
Cooling / Heating capacity (*1)			kW	8.0 / 9.0	9.0 / 10.0	11.2 / 12.5	14.0 / 16.0	16.0 / 18.0
Electrical charastaristics	Power supply			1 phase 50 Hz 220 V - 240 V / 1 phase 60 Hz 208 V - 230 V				
	Running current		A	0.46 / 0.48	0.57 / 0.60	0.90 / 0.94	0.92 / 0.96	0.93 / 0.97
	Power consumption		kW	0.054	0.068	0.125	0.135	0.137
	Power factor		%	51	52	60	64	64
	Starting current		A	0.69 / 0.72	0.86 / 0.90	1.35 / 1.41	1.38 / 1.44	1.40 / 1.46
Appearance	Main Unit			Heat-instulating material attached Zinc hot dipping steel plate				
	Ceiling Panel	Model Name		RBC-U41PG(W)-E				
		Panel Color		White (2.5GY9.0/0.5)				
Outer dimension	Main Unit	Height	mm	319				
		Width	mm	840				
		Depth	mm	840				
	Ceiling Panel	Height	mm	30				
		Width	mm	950				
		Depth	mm	950				
Total weight	Main Unit		kg	25				
	Ceiling Panel		kg	5				
Heat exchanger				Finned tube				
Soundproof / Heat-insulating material				Non-flammable insulation				
Fan unit	Fan			Turbo fan				
	Standard air flow (H / M+ / M / L+ / L)		m^3/h	1770 / 1590 / 1380 / 1320 / 1250	1940 / 1770 / 1520 / 1450 / 1400	2184 / 1848 / 1596 / 1356 / 1260	2262 / 1998 / 1740 / 1470 / 1368	2262 / 2034 / 1782 / 1512 / 1404
	Motor		W	130				
Air filter				Standard filter (Long life filter)				
Controller				Remote controller				
Connecting pipe	Gas side		mm	Ø15.9				
	Liquid side		mm	Ø9.5				
Drain port (Nominal dia. mm)			mm	25 (Polyvinyl chloride tube)				
Sound pressure level (H / M+ / M / L+ / L)			dB(A)	42 / 40 / 37 / 36 / 35	44 / 42 / 39 / 38 / 37	45 / 41 / 38 / 36 / 32	46 / 43 / 39 / 37 / 33	46 / 43 / 40 / 38 / 35
Sound power level (H / M+ / M / L+ / L)			dB(A)	56 / 54 / 51 / 50 / 49	58 / 56 / 53 / 52 / 51	60 / 56 / 53 / 50 / 48	61 / 57 / 54 / 52 / 49	61 / 58 / 55 / 53 / 51

Note

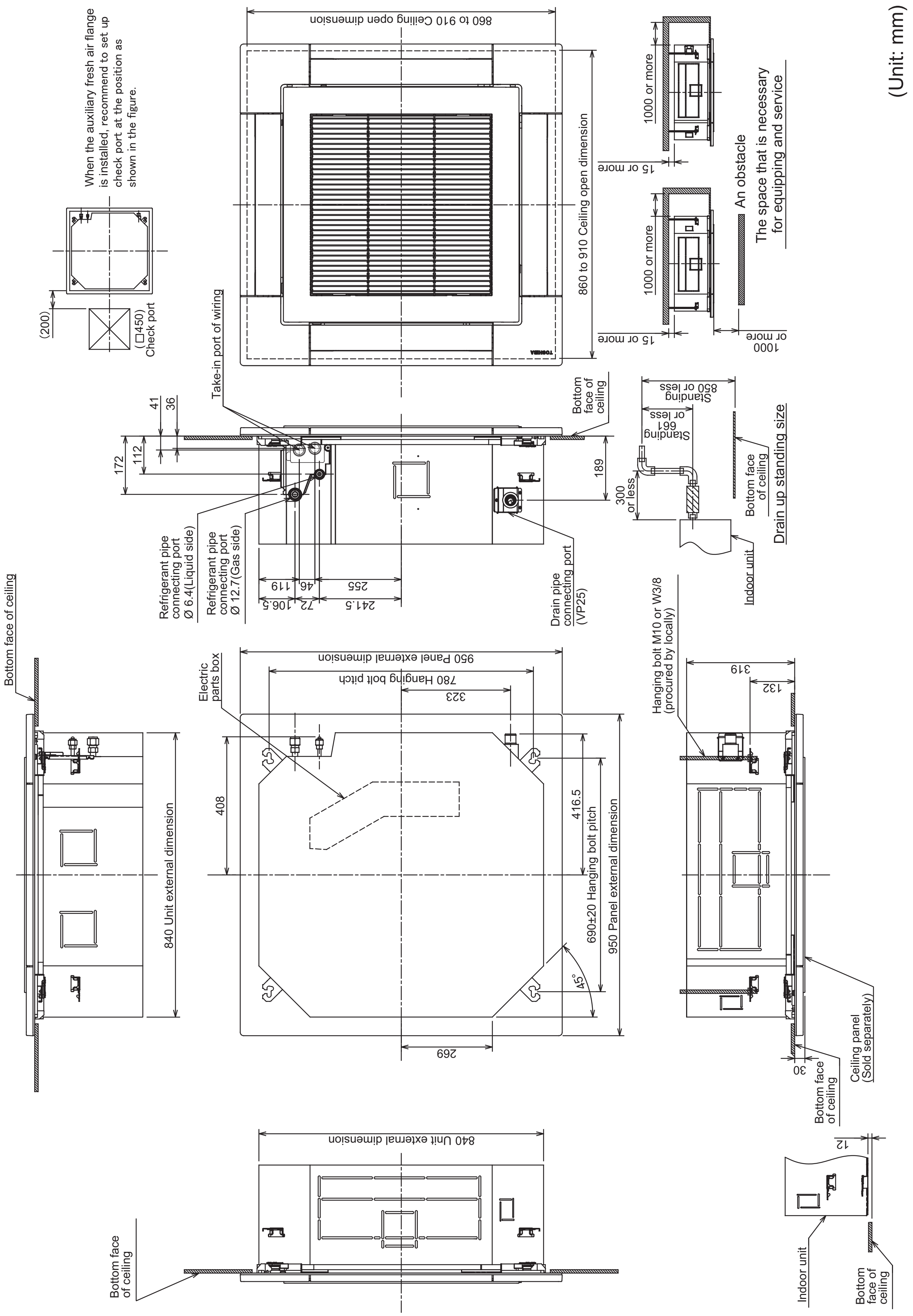
(*1) Rated conditions Cooling: Indoor 27 degC Dry Bulb / 19 degC Wet Bulb, Outdoor 35 degC Dry Bulb.
Heating: Indoor 20 degC Dry Bulb, Outdoor 7 degC Dry Bulb / 6 degC Wet Bulb.
Based on equivalent piping length of 7.5 m and piping height difference of 0 m.

2. Dimensions

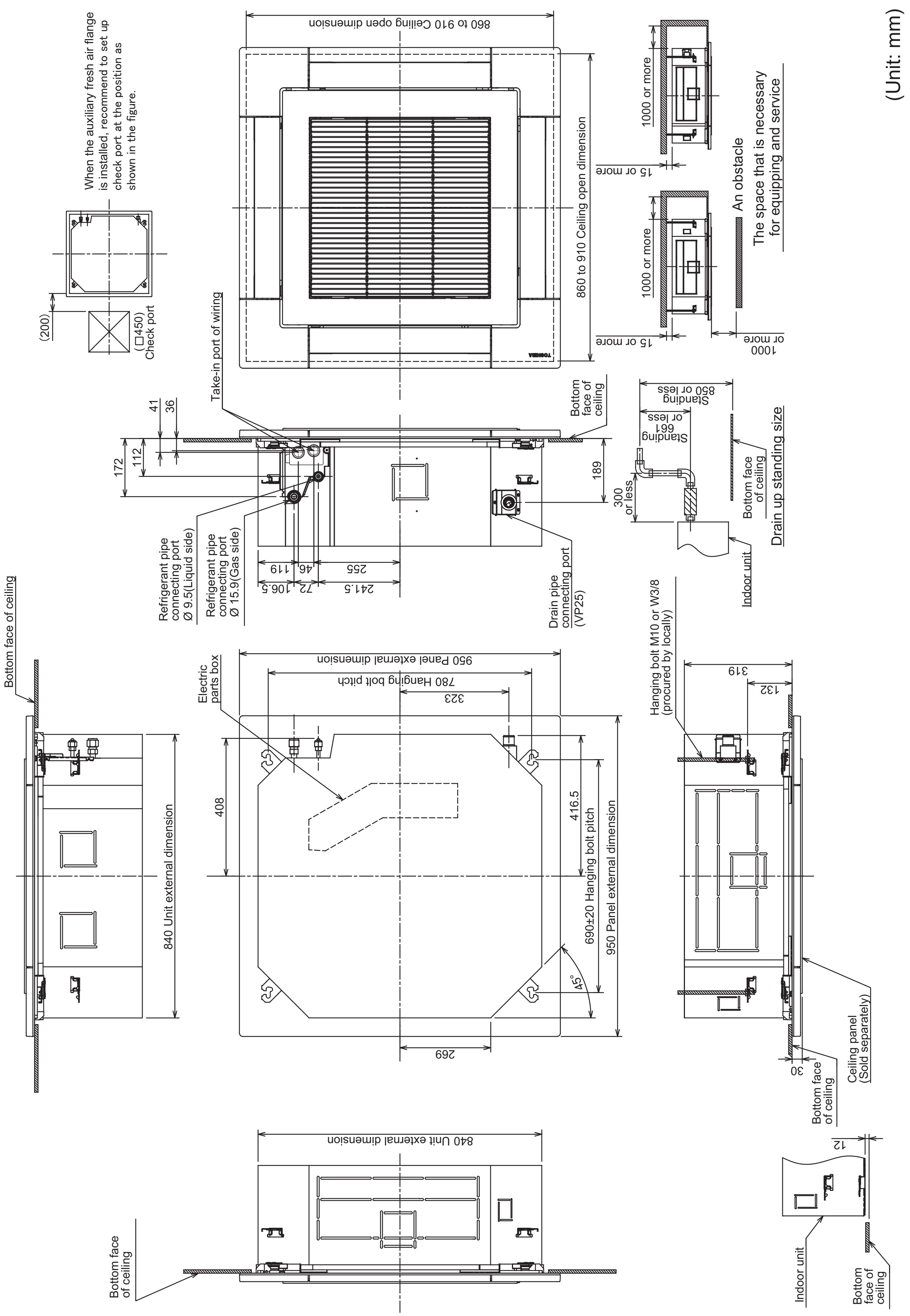
MMU-UP0091H-E, MMU-UP0121H-E



MMU-UP0151H-E, MMU-UP0181H-E

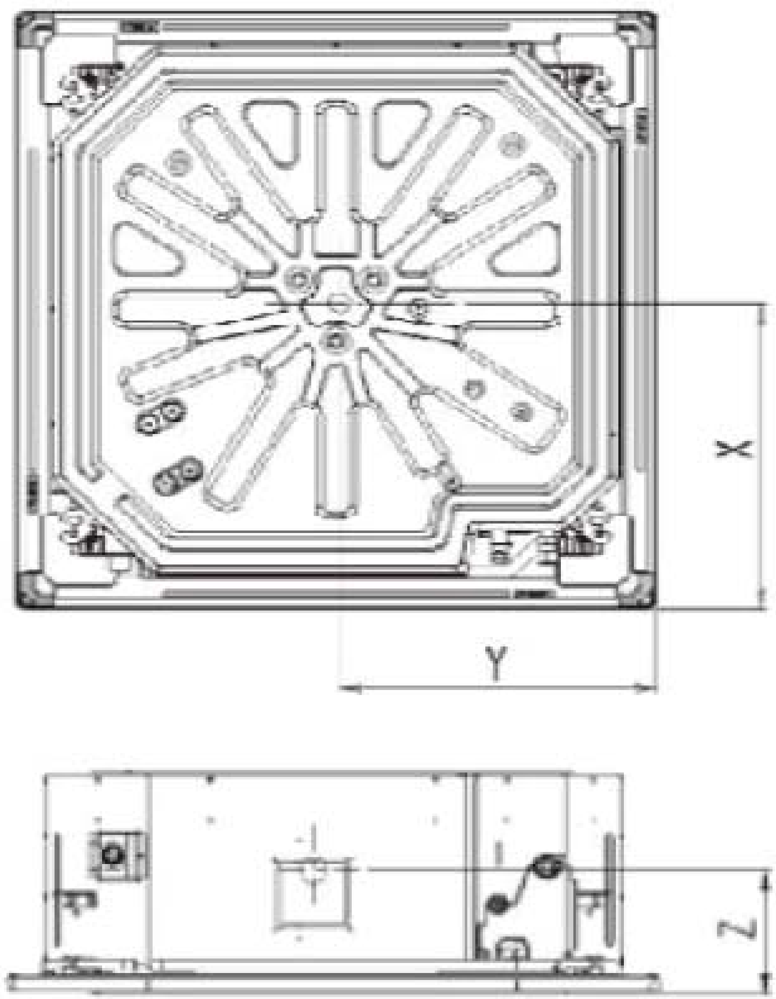


MMU-UP0241H-E, MMU-UP0271H-E, MMU-UP0301H-E

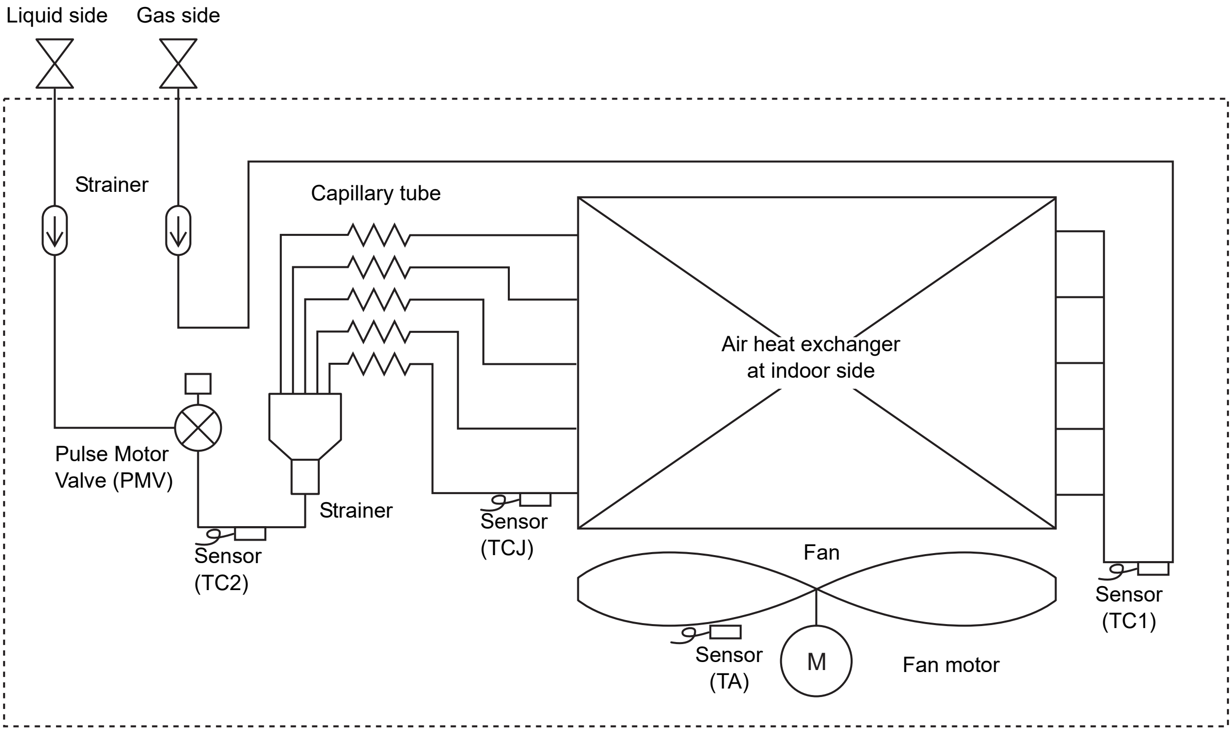


3. Center of gravity

Model name	X (mm)	Y (mm)	Z (mm)	Total weight	
				Main unit (kg)	Ceiling panel (kg)
MMU-UP0091H-E	440	465	180	25	5.0
MMU-UP0121H-E					
MMU-UP0151H-E					
MMU-UP0181H-E					
MMU-UP0241H-E					
MMU-UP0271H-E					
MMU-UP0301H-E					
MMU-UP0361H-E					
MMU-UP0481H-E					
MMU-UP0561H-E					



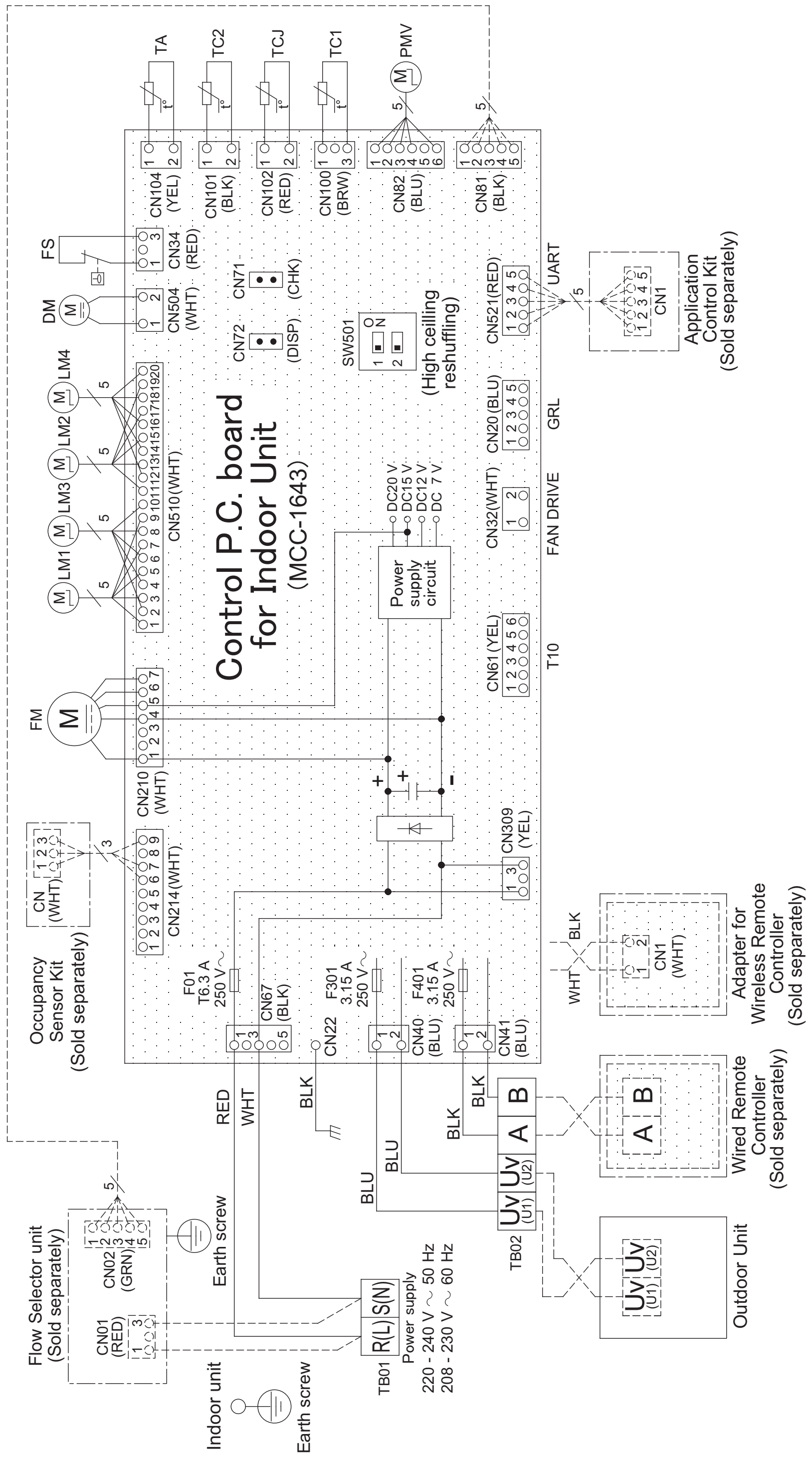
4. Piping diagram



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

MMU-UP0091H-E, MMU-UP0121H-E, MMU-UP0151H-E, MMU-UP0181H-E, MMU-UP0241H-E, MMU-UP0271H-E, MMU-UP0301H-E, MMU-UP0361H-E, MMU-UP0481H-E, MMU-UP0561H-E



Color Indication
RED: Red
WHT: White
YEL: Yellow
BLU: Blue
BLK: Black
GRN: Green
BRW: Brown

	Field Wiring
	Protection Ground
	Terminal Block
	Terminal
	Connector
	P.C. board
	Accessory

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

50 Hz

Model	Nominal Voltage (V-Ph-Hz)	Voltage Range		Fan Motor		Power Supply	
		Min	Max	kW	FLA	MCA	MOCP
MMU-UP0091H-E	230-1-50	198	264	0.060	0.20	0.25	15
MMU-UP0121H-E	230-1-50	198	264	0.060	0.20	0.25	15
MMU-UP0151H-E	230-1-50	198	264	0.130	0.22	0.28	15
MMU-UP0181H-E	230-1-50	198	264	0.130	0.29	0.36	15
MMU-UP0241H-E	230-1-50	198	264	0.130	0.42	0.52	15
MMU-UP0271H-E	230-1-50	198	264	0.130	0.53	0.66	15
MMU-UP0301H-E	230-1-50	198	264	0.130	0.66	0.83	15
MMU-UP0361H-E	230-1-50	198	264	0.130	1.03	1.29	15
MMU-UP0481H-E	230-1-50	198	264	0.130	1.06	1.32	15
MMU-UP0561H-E	230-1-50	198	264	0.130	1.07	1.33	15

60 Hz

Model	Nominal Voltage (V-Ph-Hz)	Voltage Range		Fan Motor		Power Supply	
		Min	Max	kW	FLA	MCA	MOCP
MMU-UP0091H-E	220-1-60	198	242	0.060	0.21	0.26	15
MMU-UP0121H-E	220-1-60	198	242	0.060	0.21	0.26	15
MMU-UP0151H-E	220-1-60	198	242	0.130	0.23	0.29	15
MMU-UP0181H-E	220-1-60	198	242	0.130	0.30	0.38	15
MMU-UP0241H-E	220-1-60	198	242	0.130	0.44	0.55	15
MMU-UP0271H-E	220-1-60	198	242	0.130	0.55	0.69	15
MMU-UP0301H-E	220-1-60	198	242	0.130	0.69	0.87	15
MMU-UP0361H-E	220-1-60	198	242	0.130	1.09	1.36	15
MMU-UP0481H-E	220-1-60	198	242	0.130	1.11	1.39	15
MMU-UP0561H-E	220-1-60	198	242	0.130	1.12	1.40	15

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

7. Sensible capacity table

4-way Cassette Type (MMU-UP_1H-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
009	10	2.3	2.2	2.5	2.3	2.7	2.5	2.8	2.5	2.9	2.5	3.1	2.4	3.2	2.4
	12	2.3	2.2	2.5	2.3	2.7	2.5	2.8	2.5	2.9	2.5	3.1	2.4	3.2	2.4
	14	2.3	2.2	2.5	2.3	2.7	2.5	2.8	2.5	2.9	2.5	3.1	2.4	3.2	2.4
	16	2.3	2.2	2.5	2.3	2.7	2.5	2.8	2.5	2.9	2.5	3.1	2.4	3.2	2.4
	18	2.3	2.2	2.5	2.3	2.7	2.5	2.8	2.5	2.9	2.5	3.1	2.4	3.2	2.4
	20	2.3	2.2	2.5	2.3	2.7	2.5	2.8	2.5	2.9	2.5	3.1	2.4	3.2	2.4
	21	2.3	2.2	2.5	2.3	2.7	2.5	2.8	2.5	2.9	2.5	3.1	2.4	3.2	2.4
	23	2.3	2.2	2.5	2.3	2.7	2.5	2.8	2.5	2.9	2.5	3.1	2.4	3.2	2.4
	25	2.3	2.2	2.5	2.3	2.7	2.5	2.8	2.5	2.9	2.5	3.1	2.4	3.2	2.4
	27	2.3	2.2	2.5	2.3	2.7	2.5	2.8	2.5	2.9	2.5	3.1	2.4	3.2	2.4
	29	2.3	2.2	2.5	2.3	2.7	2.5	2.8	2.5	2.9	2.5	3.1	2.4	3.2	2.4
	31	2.3	2.2	2.5	2.3	2.7	2.5	2.8	2.5	2.9	2.5	3.1	2.4	3.2	2.4
	33	2.3	2.2	2.5	2.3	2.7	2.5	2.8	2.5	2.9	2.5	3.1	2.4	3.2	2.4
	35	2.3	2.2	2.5	2.3	2.7	2.5	2.8	2.5	2.9	2.5	3.1	2.4	3.2	2.4
012	10	3.0	2.7	3.3	2.9	3.5	3.1	3.6	3.1	3.7	3.1	3.9	3.1	4.1	3.0
	12	3.0	2.7	3.3	2.9	3.5	3.1	3.6	3.1	3.7	3.1	3.9	3.1	4.1	3.0
	14	3.0	2.7	3.3	2.9	3.5	3.1	3.6	3.1	3.7	3.1	3.9	3.1	4.1	3.0
	16	3.0	2.7	3.3	2.9	3.5	3.1	3.6	3.1	3.7	3.1	3.9	3.1	4.1	3.0
	18	3.0	2.7	3.3	2.9	3.5	3.1	3.6	3.1	3.7	3.1	3.9	3.1	4.1	3.0
	20	3.0	2.7	3.3	2.9	3.5	3.1	3.6	3.1	3.7	3.1	3.9	3.1	4.1	3.0
	21	3.0	2.7	3.3	2.9	3.5	3.1	3.6	3.1	3.7	3.1	3.9	3.1	4.1	3.0
	23	3.0	2.7	3.3	2.9	3.5	3.1	3.6	3.1	3.7	3.1	3.9	3.1	4.1	3.0
	25	3.0	2.7	3.3	2.9	3.5	3.1	3.6	3.1	3.7	3.1	3.9	3.1	4.1	3.0
	27	3.0	2.7	3.3	2.9	3.5	3.1	3.6	3.1	3.7	3.1	3.9	3.1	4.1	3.0
	29	3.0	2.7	3.3	2.9	3.5	3.1	3.6	3.1	3.7	3.1	3.9	3.1	4.1	3.0
	31	3.0	2.7	3.3	2.9	3.5	3.1	3.6	3.1	3.7	3.1	3.9	3.1	4.1	3.0
	33	3.0	2.7	3.3	2.9	3.5	3.1	3.6	3.1	3.7	3.1	3.9	3.1	4.1	3.0
	35	3.0	2.7	3.3	2.9	3.5	3.1	3.6	3.1	3.7	3.1	3.9	3.1	4.1	3.0
015	10	3.7	3.8	4.1	4.0	4.4	4.2	4.5	4.2	4.6	4.2	4.9	4.2	5.1	4.1
	12	3.7	3.8	4.1	4.0	4.4	4.2	4.5	4.2	4.6	4.2	4.9	4.2	5.1	4.1
	14	3.7	3.8	4.1	4.0	4.4	4.2	4.5	4.2	4.6	4.2	4.9	4.2	5.1	4.1
	16	3.7	3.8	4.1	4.0	4.4	4.2	4.5	4.2	4.6	4.2	4.9	4.2	5.1	4.1
	18	3.7	3.8	4.1	4.0	4.4	4.2	4.5	4.2	4.6	4.2	4.9	4.2	5.1	4.1
	20	3.7	3.8	4.1	4.0	4.4	4.2	4.5	4.2	4.6	4.2	4.9	4.2	5.1	4.1
	21	3.7	3.8	4.1	4.0	4.4	4.2	4.5	4.2	4.6	4.2	4.9	4.2	5.1	4.1
	23	3.7	3.8	4.1	4.0	4.4	4.2	4.5	4.2	4.6	4.2	4.9	4.2	5.1	4.1
	25	3.7	3.8	4.1	4.0	4.4	4.2	4.5	4.2	4.6	4.2	4.9	4.2	5.1	4.1
	27	3.7	3.8	4.1	4.0	4.4	4.2	4.5	4.2	4.6	4.2	4.9	4.2	5.1	4.1
	29	3.7	3.8	4.1	4.0	4.4	4.2	4.5	4.2	4.6	4.2	4.9	4.2	5.1	4.1
	31	3.7	3.8	4.1	4.0	4.4	4.2	4.5	4.2	4.6	4.2	4.9	4.2	5.1	4.1
	33	3.7	3.8	4.1	4.0	4.4	4.2	4.5	4.2	4.6	4.2	4.9	4.2	5.1	4.1
	35	3.7	3.8	4.1	4.0	4.4	4.2	4.5	4.2	4.6	4.2	4.9	4.2	5.1	4.1

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

4-way Cassette Type (MMU-UP_1H-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
018	10	4.6	4.6	5.1	4.9	5.4	5.2	5.6	5.2	5.8	5.2	6.1	5.1	6.4	5.0
	12	4.6	4.6	5.1	4.9	5.4	5.2	5.6	5.2	5.8	5.2	6.1	5.1	6.4	5.0
	14	4.6	4.6	5.1	4.9	5.4	5.2	5.6	5.2	5.8	5.2	6.1	5.1	6.4	5.0
	16	4.6	4.6	5.1	4.9	5.4	5.2	5.6	5.2	5.8	5.2	6.1	5.1	6.4	5.0
	18	4.6	4.6	5.1	4.9	5.4	5.2	5.6	5.2	5.8	5.2	6.1	5.1	6.4	5.0
	20	4.6	4.6	5.1	4.9	5.4	5.2	5.6	5.2	5.8	5.2	6.1	5.1	6.4	5.0
	21	4.6	4.6	5.1	4.9	5.4	5.2	5.6	5.2	5.8	5.2	6.1	5.1	6.4	5.0
	23	4.6	4.6	5.1	4.9	5.4	5.2	5.6	5.2	5.8	5.2	6.1	5.1	6.4	5.0
	25	4.6	4.6	5.1	4.9	5.4	5.2	5.6	5.2	5.8	5.2	6.1	5.1	6.4	5.0
	27	4.6	4.6	5.1	4.9	5.4	5.2	5.6	5.2	5.8	5.2	6.1	5.1	6.4	5.0
	29	4.6	4.6	5.1	4.9	5.4	5.2	5.6	5.2	5.8	5.2	6.1	5.1	6.4	5.0
	31	4.6	4.6	5.1	4.9	5.4	5.2	5.6	5.2	5.8	5.2	6.1	5.1	6.4	5.0
	33	4.6	4.6	5.1	4.9	5.4	5.2	5.6	5.2	5.8	5.2	6.1	5.1	6.4	5.0
	35	4.6	4.6	5.1	4.9	5.4	5.2	5.6	5.2	5.8	5.2	6.1	5.1	6.4	5.0
024	10	5.8	5.7	6.4	6.1	6.9	6.5	7.1	6.5	7.3	6.5	7.7	6.4	8.1	6.3
	12	5.8	5.7	6.4	6.1	6.9	6.5	7.1	6.5	7.3	6.5	7.7	6.4	8.1	6.3
	14	5.8	5.7	6.4	6.1	6.9	6.5	7.1	6.5	7.3	6.5	7.7	6.4	8.1	6.3
	16	5.8	5.7	6.4	6.1	6.9	6.5	7.1	6.5	7.3	6.5	7.7	6.4	8.1	6.3
	18	5.8	5.7	6.4	6.1	6.9	6.5	7.1	6.5	7.3	6.5	7.7	6.4	8.1	6.3
	20	5.8	5.7	6.4	6.1	6.9	6.5	7.1	6.5	7.3	6.5	7.7	6.4	8.1	6.3
	21	5.8	5.7	6.4	6.1	6.9	6.5	7.1	6.5	7.3	6.5	7.7	6.4	8.1	6.3
	23	5.8	5.7	6.4	6.1	6.9	6.5	7.1	6.5	7.3	6.5	7.7	6.4	8.1	6.3
	25	5.8	5.7	6.4	6.1	6.9	6.5	7.1	6.5	7.3	6.5	7.7	6.4	8.1	6.3
	27	5.8	5.7	6.4	6.1	6.9	6.5	7.1	6.5	7.3	6.5	7.7	6.4	8.1	6.3
	29	5.8	5.7	6.4	6.1	6.9	6.5	7.1	6.5	7.3	6.5	7.7	6.4	8.1	6.3
	31	5.8	5.7	6.4	6.1	6.9	6.5	7.1	6.5	7.3	6.5	7.7	6.4	8.1	6.3
	33	5.8	5.7	6.4	6.1	6.9	6.5	7.1	6.5	7.3	6.5	7.7	6.4	8.1	6.3
	35	5.8	5.7	6.4	6.1	6.9	6.5	7.1	6.5	7.3	6.5	7.7	6.4	8.1	6.3
027	10	6.6	6.4	7.3	6.8	7.8	7.2	8.0	7.2	8.2	7.2	8.7	7.1	9.1	7.0
	12	6.6	6.4	7.3	6.8	7.8	7.2	8.0	7.2	8.2	7.2	8.7	7.1	9.1	7.0
	14	6.6	6.4	7.3	6.8	7.8	7.2	8.0	7.2	8.2	7.2	8.7	7.1	9.1	7.0
	16	6.6	6.4	7.3	6.8	7.8	7.2	8.0	7.2	8.2	7.2	8.7	7.1	9.1	7.0
	18	6.6	6.4	7.3	6.8	7.8	7.2	8.0	7.2	8.2	7.2	8.7	7.1	9.1	7.0
	20	6.6	6.4	7.3	6.8	7.8	7.2	8.0	7.2	8.2	7.2	8.7	7.1	9.1	7.0
	21	6.6	6.4	7.3	6.8	7.8	7.2	8.0	7.2	8.2	7.2	8.7	7.1	9.1	7.0
	23	6.6	6.4	7.3	6.8	7.8	7.2	8.0	7.2	8.2	7.2	8.7	7.1	9.1	7.0
	25	6.6	6.4	7.3	6.8	7.8	7.2	8.0	7.2	8.2	7.2	8.7	7.1	9.1	7.0
	27	6.6	6.4	7.3	6.8	7.8	7.2	8.0	7.2	8.2	7.2	8.7	7.1	9.1	7.0
	29	6.6	6.4	7.3	6.8	7.8	7.2	8.0	7.2	8.2	7.2	8.7	7.1	9.1	7.0
	31	6.6	6.4	7.3	6.8	7.8	7.2	8.0	7.2	8.2	7.2	8.7	7.1	9.1	7.0
	33	6.6	6.4	7.3	6.8	7.8	7.2	8.0	7.2	8.2	7.2	8.7	7.1	9.1	7.0
	35	6.6	6.4	7.3	6.8	7.8	7.2	8.0	7.2	8.2	7.2	8.7	7.1	9.1	7.0
030	10	7.4	6.9	8.2	7.4	8.7	7.9	9.0	7.8	9.3	7.8	9.8	7.8	10.3	7.6
	12	7.4	6.9	8.2	7.4	8.7	7.9	9.0	7.8	9.3	7.8	9.8	7.8	10.3	7.6
	14	7.4	6.9	8.2	7.4	8.7	7.9	9.0	7.8	9.3	7.8	9.8	7.8	10.3	7.6
	16	7.4	6.9	8.2	7.4	8.7	7.9	9.0	7.8	9.3	7.8	9.8	7.8	10.3	7.6
	18	7.4	6.9	8.2	7.4	8.7	7.9	9.0	7.8	9.3	7.8	9.8	7.8	10.3	7.6
	20	7.4	6.9	8.2	7.4	8.7	7.9	9.0	7.8	9.3	7.8	9.8	7.8	10.3	7.6
	21	7.4	6.9	8.2	7.4	8.7	7.9	9.0	7.8	9.3	7.8	9.8	7.8	10.3	7.6
	23	7.4	6.9	8.2	7.4	8.7	7.9	9.0	7.8	9.3	7.8	9.8	7.8	10.3	7.6
	25	7.4	6.9	8.2	7.4	8.7	7.9	9.0	7.8	9.3	7.8	9.8	7.8	10.3	7.6
	27	7.4	6.9	8.2	7.4	8.7	7.9	9.0	7.8	9.3	7.8	9.8	7.8	10.3	7.6
	29	7.4	6.9	8.2	7.4	8.7	7.9	9.0	7.8	9.3	7.8	9.8	7.8	10.3	7.6
	31	7.4	6.9	8.2	7.4	8.7	7.9	9.0	7.8	9.3	7.8	9.8	7.8	10.3	7.6
	33	7.4	6.9	8.2	7.4	8.7	7.9	9.0	7.8	9.3	7.8	9.8	7.8	10.3	7.6
	35	7.4	6.9	8.2	7.4	8.7	7.9	9.0	7.8	9.3	7.8	9.8	7.8	10.3	7.6

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

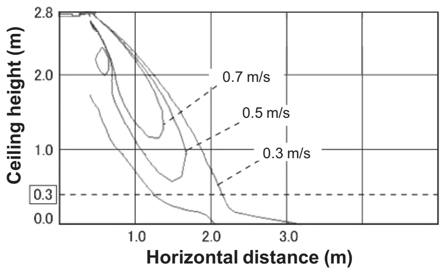
4-way Cassette Type (MMU-UP_1H-E)

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
036	10	9.2	7.7	10.2	8.2	10.9	8.8	11.2	8.7	11.5	8.7	12.2	8.7	12.8	8.5
	12	9.2	7.7	10.2	8.2	10.9	8.8	11.2	8.7	11.5	8.7	12.2	8.7	12.8	8.5
	14	9.2	7.7	10.2	8.2	10.9	8.8	11.2	8.7	11.5	8.7	12.2	8.7	12.8	8.5
	16	9.2	7.7	10.2	8.2	10.9	8.8	11.2	8.7	11.5	8.7	12.2	8.7	12.8	8.5
	18	9.2	7.7	10.2	8.2	10.9	8.8	11.2	8.7	11.5	8.7	12.2	8.7	12.8	8.5
	20	9.2	7.7	10.2	8.2	10.9	8.8	11.2	8.7	11.5	8.7	12.2	8.7	12.8	8.5
	21	9.2	7.7	10.2	8.2	10.9	8.8	11.2	8.7	11.5	8.7	12.2	8.7	12.8	8.5
	23	9.2	7.7	10.2	8.2	10.9	8.8	11.2	8.7	11.5	8.7	12.2	8.7	12.8	8.5
	25	9.2	7.7	10.2	8.2	10.9	8.8	11.2	8.7	11.5	8.7	12.2	8.7	12.8	8.5
	27	9.2	7.7	10.2	8.2	10.9	8.8	11.2	8.7	11.5	8.7	12.2	8.7	12.8	8.5
	29	9.2	7.7	10.2	8.2	10.9	8.8	11.2	8.7	11.5	8.7	12.2	8.7	12.8	8.5
	31	9.2	7.7	10.2	8.2	10.9	8.8	11.2	8.7	11.5	8.7	12.2	8.7	12.8	8.5
	33	9.2	7.7	10.2	8.2	10.9	8.8	11.2	8.7	11.5	8.7	12.2	8.7	12.8	8.5
	35	9.2	7.7	10.2	8.2	10.9	8.8	11.2	8.7	11.5	8.7	12.2	8.7	12.8	8.5
048	10	11.5	9.3	12.7	9.9	13.6	10.5	14.0	10.5	14.4	10.5	15.3	10.4	16.0	10.2
	12	11.5	9.3	12.7	9.9	13.6	10.5	14.0	10.5	14.4	10.5	15.3	10.4	16.0	10.2
	14	11.5	9.3	12.7	9.9	13.6	10.5	14.0	10.5	14.4	10.5	15.3	10.4	16.0	10.2
	16	11.5	9.3	12.7	9.9	13.6	10.5	14.0	10.5	14.4	10.5	15.3	10.4	16.0	10.2
	18	11.5	9.3	12.7	9.9	13.6	10.5	14.0	10.5	14.4	10.5	15.3	10.4	16.0	10.2
	20	11.5	9.3	12.7	9.9	13.6	10.5	14.0	10.5	14.4	10.5	15.3	10.4	16.0	10.2
	21	11.5	9.3	12.7	9.9	13.6	10.5	14.0	10.5	14.4	10.5	15.3	10.4	16.0	10.2
	23	11.5	9.3	12.7	9.9	13.6	10.5	14.0	10.5	14.4	10.5	15.3	10.4	16.0	10.2
	25	11.5	9.3	12.7	9.9	13.6	10.5	14.0	10.5	14.4	10.5	15.3	10.4	16.0	10.2
	27	11.5	9.3	12.7	9.9	13.6	10.5	14.0	10.5	14.4	10.5	15.3	10.4	16.0	10.2
	29	11.5	9.3	12.7	9.9	13.6	10.5	14.0	10.5	14.4	10.5	15.3	10.4	16.0	10.2
	31	11.5	9.3	12.7	9.9	13.6	10.5	14.0	10.5	14.4	10.5	15.3	10.4	16.0	10.2
	33	11.5	9.3	12.7	9.9	13.6	10.5	14.0	10.5	14.4	10.5	15.3	10.4	16.0	10.2
	35	11.5	9.3	12.7	9.9	13.6	10.5	14.0	10.5	14.4	10.5	15.3	10.4	16.0	10.2
056	10	13.1	10.4	14.5	11.0	15.5	11.7	16.0	11.7	16.5	11.7	17.4	11.6	18.2	11.3
	12	13.1	10.4	14.5	11.0	15.5	11.7	16.0	11.7	16.5	11.7	17.4	11.6	18.2	11.3
	14	13.1	10.4	14.5	11.0	15.5	11.7	16.0	11.7	16.5	11.7	17.4	11.6	18.2	11.3
	16	13.1	10.4	14.5	11.0	15.5	11.7	16.0	11.7	16.5	11.7	17.4	11.6	18.2	11.3
	18	13.1	10.4	14.5	11.0	15.5	11.7	16.0	11.7	16.5	11.7	17.4	11.6	18.2	11.3
	20	13.1	10.4	14.5	11.0	15.5	11.7	16.0	11.7	16.5	11.7	17.4	11.6	18.2	11.3
	21	13.1	10.4	14.5	11.0	15.5	11.7	16.0	11.7	16.5	11.7	17.4	11.6	18.2	11.3
	23	13.1	10.4	14.5	11.0	15.5	11.7	16.0	11.7	16.5	11.7	17.4	11.6	18.2	11.3
	25	13.1	10.4	14.5	11.0	15.5	11.7	16.0	11.7	16.5	11.7	17.4	11.6	18.2	11.3
	27	13.1	10.4	14.5	11.0	15.5	11.7	16.0	11.7	16.5	11.7	17.4	11.6	18.2	11.3
	29	13.1	10.4	14.5	11.0	15.5	11.7	16.0	11.7	16.5	11.7	17.4	11.6	18.2	11.3
	31	13.1	10.4	14.5	11.0	15.5	11.7	16.0	11.7	16.5	11.7	17.4	11.6	18.2	11.3
	33	13.1	10.4	14.5	11.0	15.5	11.7	16.0	11.7	16.5	11.7	17.4	11.6	18.2	11.3
	35	13.1	10.4	14.5	11.0	15.5	11.7	16.0	11.7	16.5	11.7	17.4	11.6	18.2	11.3

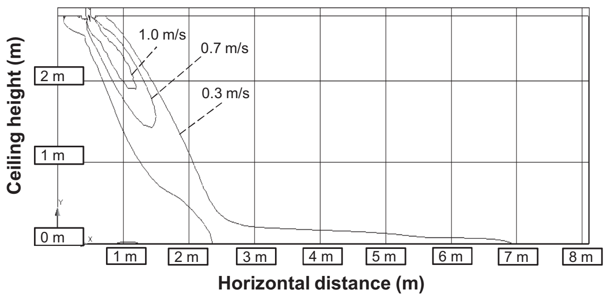
TC : Total capacity [kW]
SHC : Sensible capacity [kW]

8. Air flow distance chart

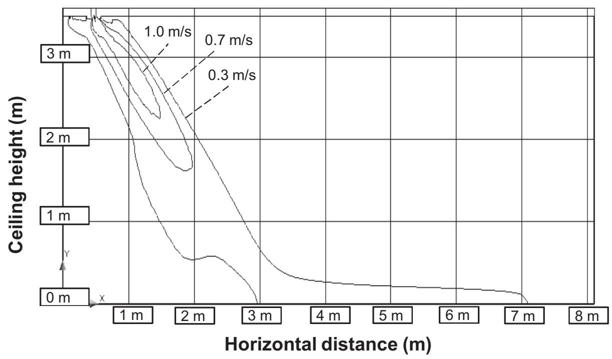
MMU-UP0091H-E, MMU-UP0121H-E



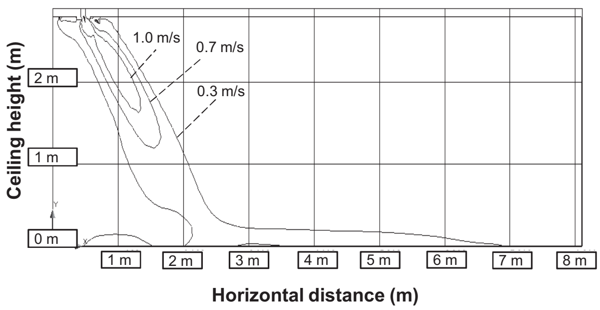
MMU-UP0151H-E



MMU-UP0151H-E (High ceiling 3)



MMU-UP0181H-E



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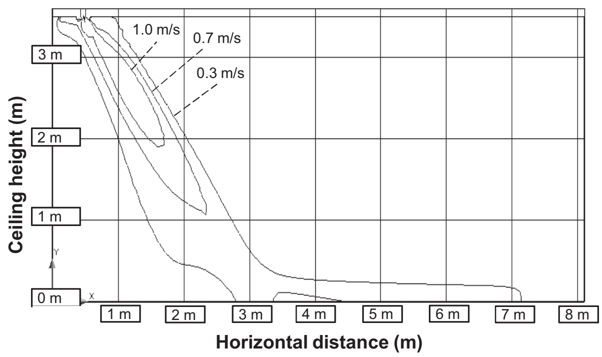
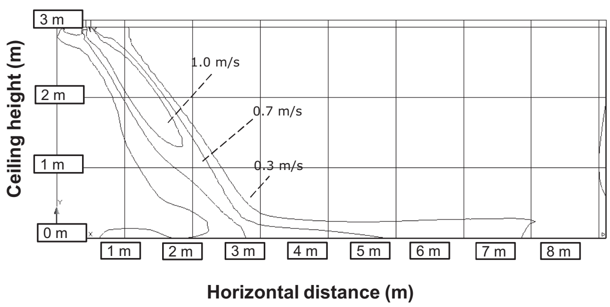


MMU-UP0241H-E



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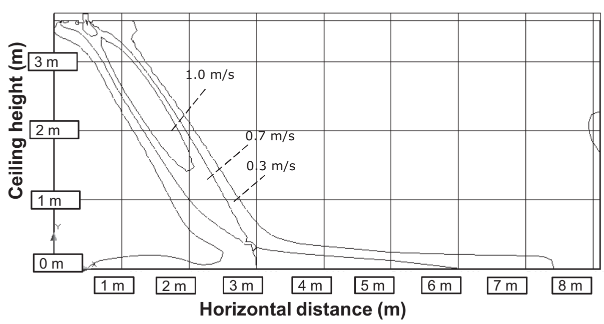
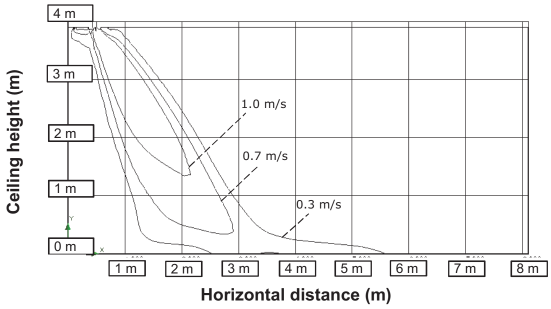


MMU-UP0271H-E



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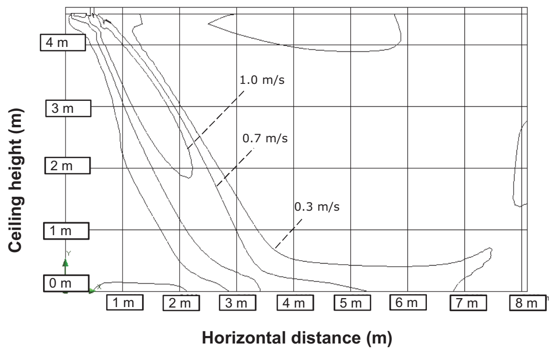
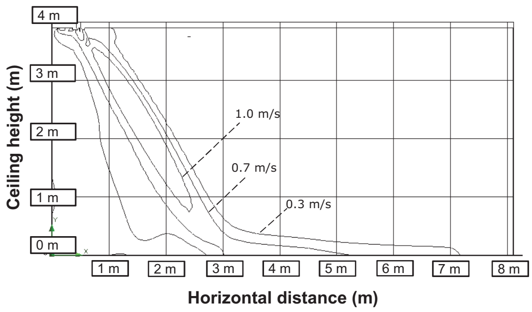


MMU-UP0301H-E



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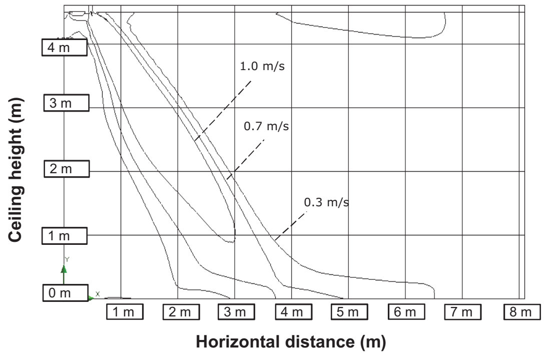
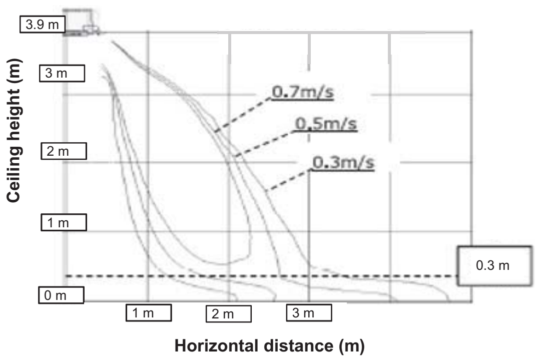
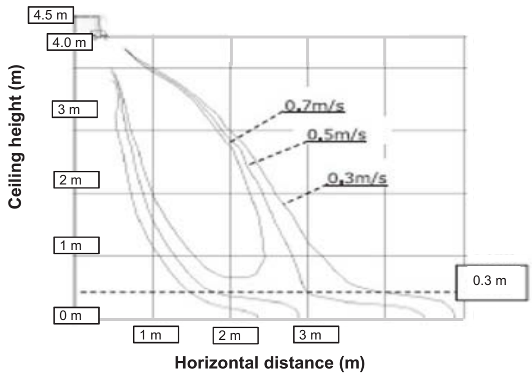


MMU-UP0361H-E, MMU-UP0481H-E, MMU-UP0561H-E

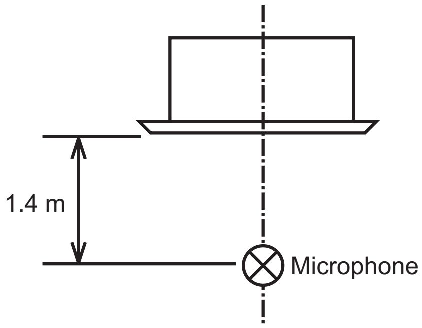


MMU-UP0361H-E, MMU-UP0481H-E, MMU-UP0561H-E (High ceiling 3)



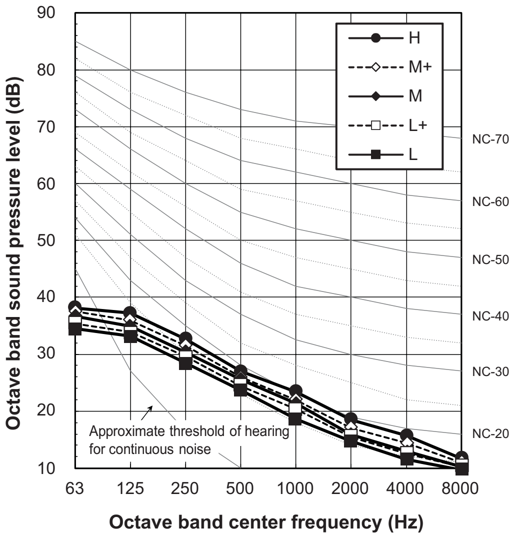
9. Sound data

Sound pressure spectrum



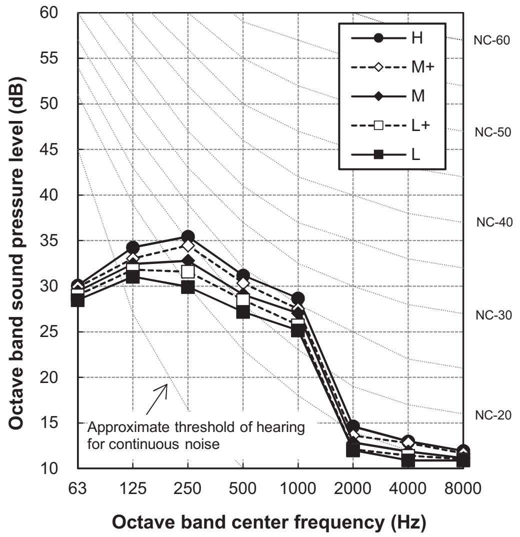
MMU-UP0091H-E, MMU-UP0121H-E

Fan tap	H	M+	M	L+	L
Sound pressure level（dB(A)）	30	29	28	27	26



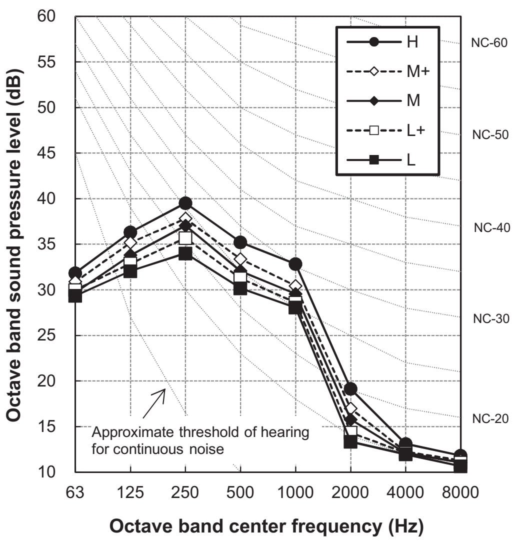
MMU-UP0151H-E

Fan tap	H	M+	M	L+	L
Sound pressure level（dB(A)）	33	32	31	30	29



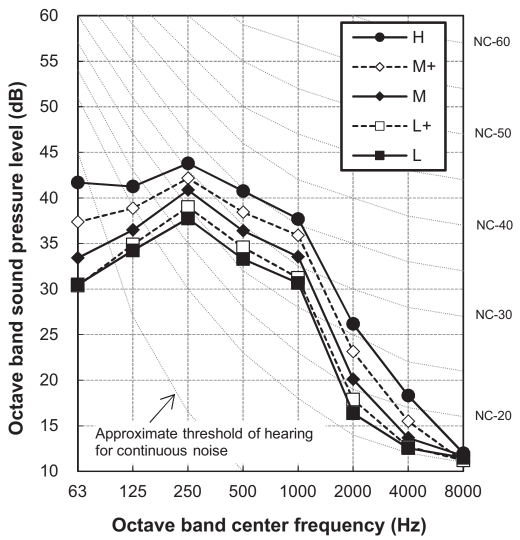
MMU-UP0181H-E

Fan tap	H	M+	M	L+	L
Sound pressure level（dB(A)）	37	35	34	33	32



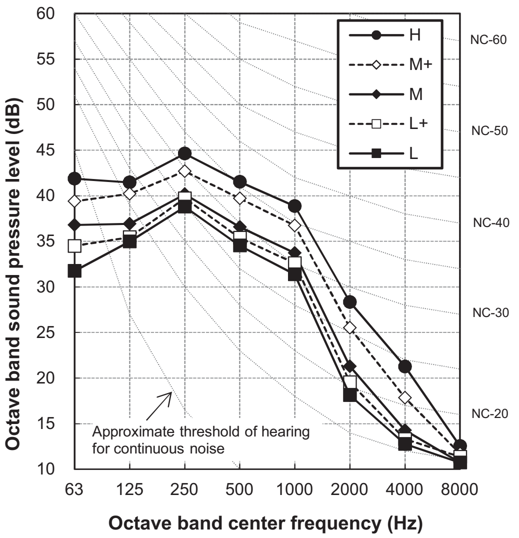
MMU-UP0241H-E

Fan tap	H	M+	M	L+	L
Sound pressure level（dB(A)）	42	40	38	36	35



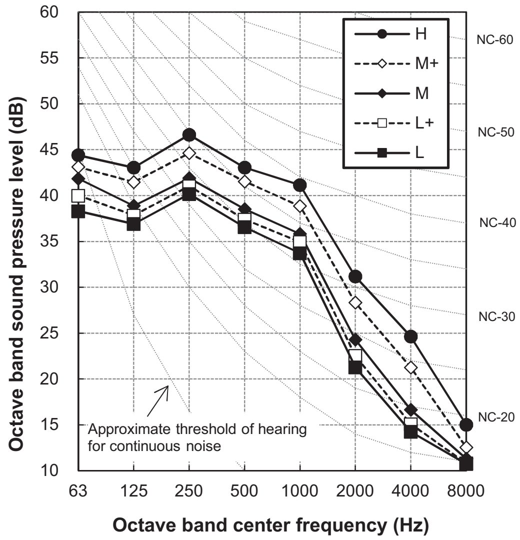
MMU-UP0271H-E

Fan tap	H	M+	M	L+	L
Sound pressure level（dB(A)）	43	41	38	37	36



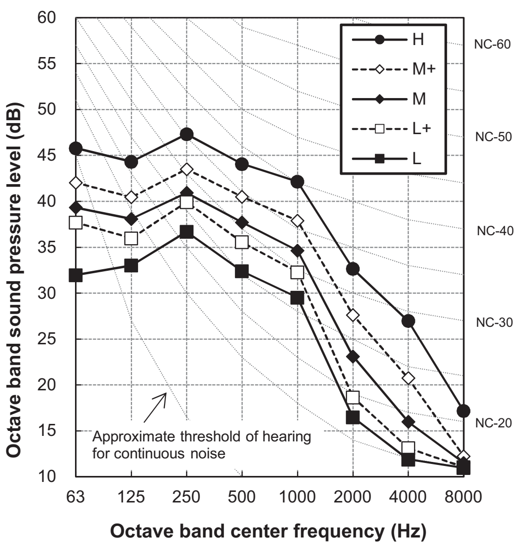
MMU-UP0301H-E

Fan tap	H	M+	M	L+	L
Sound pressure level（dB(A)）	45	43	40	39	38



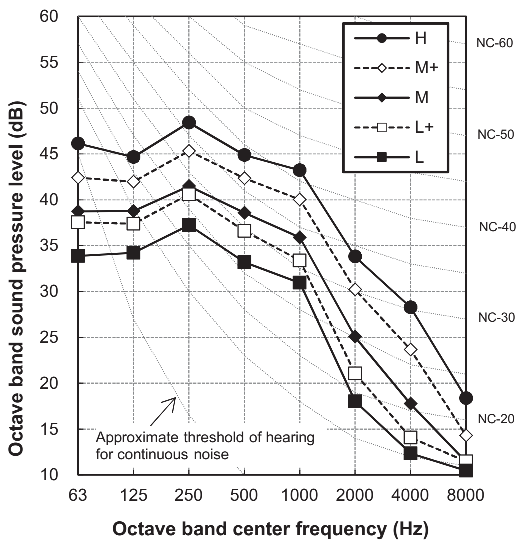
MMU-UP0361H-E

Fan tap	H	M+	M	L+	L
Sound pressure level（dB(A)）	46	42	39	37	34



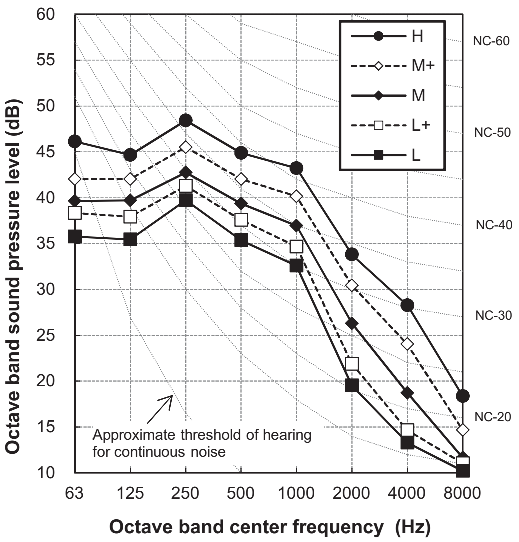
MMU-UP0481H-E

Fan tap	H	M+	M	L+	L
Sound pressure level（dB(A)）	47	44	40	38	35



MMU-UP0561H-E

Fan tap	H	M+	M	L+	L
Sound pressure level（dB(A)）	47	44	41	39	37



10. Accessories

Optional parts list

No	Type	Model name	Note
1	Ceiling Panel	RBC-U41PG(W)-E	Required accessory

4-way Cassette Engineering Data Book

Model name:

MMU-UP_1H-E

March, 2021

Toshiba Carrier Corporation