

WIDE CHOICE INDOOR UNITS

> LARGE INDOOR UNIT LINE-UP

The wide choice of indoor unit models increases design flexibility and reduces costs to the building's owner by ensuring the most appropriate system is installed.

- 18 different types of indoor units
- Capacity from 0.8 HP to 20 HP
- For heating, cooling and fresh air production



4-WAY
CASSETTE



DUCTED



WALL/CEILING



CONSOLE



1-WAY
CASSETTE

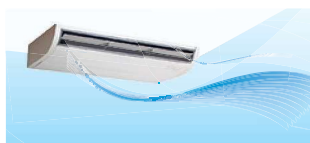


FRESH AIR
SOLUTIONS

> SUPERIOR AIR COMFORT

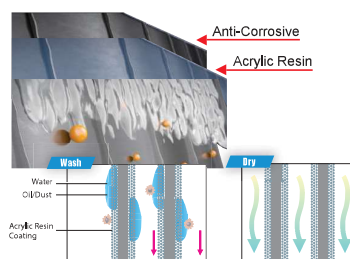
Cool comfort with soft cooling mode

The development of the soft cooling mode provides a new level for cool to personalize the air flow intensity, angle and direction directly from the remote control and enjoy the indoor environment at the right temperature without being directly exposed to the cold draft.



Special coated for FCU heat exchanger

The Toshiba FCU provide odorless and fresh air always, thanks to special coated heat exchanger. This special coating is able to release dust which is attached on heat exchanger with condensed water.



Optimised heating operations

The Toshiba VRF allow continuous heating, even during external defrost operations, thanks to the Kobetsu and Renkei function integrated in SMMS-u. Indoor units will now operate continually, with only a minimal reduction in capacity output. This results in an uninterrupted flow of warm air, ensuring maximum comfort to the end user.



Low consumption for low operation cost

Premium comfort doesn't mean high power consumption. By using DC motor, large air discharge surface and resin coating system, Toshiba reduces drastically the indoor unit power consumption.

No compromise on air quality



Every indoor units are equipped with air suction filters. A symbol on the remote warns the user when filters need to be cleaned.

Example for Compact 4-Way Cassette (0.8HP)



	PCB	FAN	DRAIN	TOTAL
Low fan speed	4 W	6 W	3 W	13 W
Medium fan speed	4 W	7 W	3 W	14 W
High fan speed	4 W	9 W	3 W	16 W

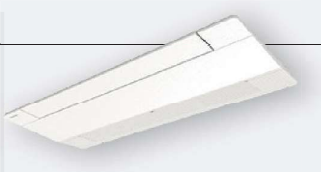
CHOOSE YOUR ADAPTED SYSTEM SOLUTION

**2021
NEW
indoor
units**



Smart Cassette

High performance
Smart operation



1-Way Cassette

Compact chassis
Smart operation
Advanced filtration



Fresh Air Intake Duct

Light and compact chassis
Wide air flow range



High Wall

Expanding capacity up to 4HP
Big air flow volume
Low noise

➤ IDU

Model	(HP)	0,8	1,0	1,25	1,7	2,0	2,5	3,0	3,2	4,0	5,0	6,0	8,0	10,0	12,0	14,0	16,0	18,0	20,0
	(kW)	2,2	2,8	3,6	4,5	5,6	7,1	8,0	9,0	11,2	14,0	16,0	22,4	28,0	34,0	40,0	45,0	50,4	56,0
Smart 4-way Cassette MMU-UP_1H-E																			
4-way Cassette MMU-UP_1HP-E																			
Compact 4-way Cassette MMU-UP_1MH-E																			
2-way Cassette MMU-UP_1WH-E																			
1-way Cassette MMU-UP_1YHP-E																			
1-way Cassette MMU-UP_1SH-E																			
Slim Duct MMD-UP_1SPHY-E																			
Concealed Duct MMD-UP_1BHP-E																			
HSP Concealed Duct MMD-UP_1HP-E																			
Fresh Air Intake Duct MMD-UP_1HFP-E																			
Ceiling MMC-UP_1HP-E																			
High Wall MMK-UP_1HP-E																			
Console MML-UP_1NHP-E																			
Floor Standing Concealed MML-UP_1BH-E																			
Floor Standing Cabinet MML-UP_1H-E																			
Floor Standing MMF-UP_1H-E																			
Large Capacity Floor Standing*1 MMF-AP_5(D)HP-VA/VB																			
Dx-coil controller & Dx-valve kit TCB-IFD_1E & RBM-A_1VAE																			

Model	Air flow in m3/h	500	600	700	800	900	1000	1100	1200	1300
Air-to-Air Heat exchanger with DX-coil*1 MMD-VN_2HEX1E										

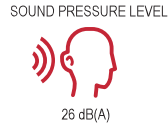
● New chassis

*1: Because these models can support only old communication protocol, please communicate with local distributor if you want to connect these indoor units.

MMU-UP_1H-E SMART 4-WAY CASSETTE



New high efficiency 4-Way Cassette, simple and elegant design fits various rooms. Also unique flap style for optimal air distribution.



LOCAL CONTROLS



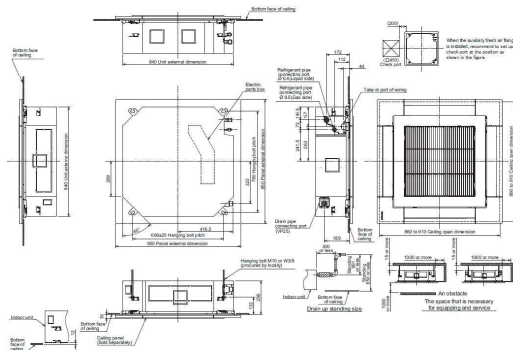
Features

Model name		MMU-	UP0091H-E	UP0121H-E	UP0151H-E	UP0181H-E	UP0241H-E	UP0271H-E	UP0301H-E	UP0361H-E	UP0481H-E	UP0561H-E
Cooling code		HP	1.0	1.25	1.7	2.0	2.5	3.0	3.2	4.0	5.0	6.0
Cooling capacity		kW	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0
Heating capacity		kW	3.2	4.0	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0
Electrical characteristics	Power supply	1-phase 230V (220-240V) 50Hz / 1-phase 220V (208-230V) 60Hz										
	Running current (50Hz/60Hz)	A	0.17/0.18		0.19/0.20	0.25/0.26	0.36/0.38	0.46/0.48	0.57/0.60	0.90/0.94	0.92/0.96	0.93/0.97
	Power consumption (50Hz/60Hz)	kW	0.020/0.020		0.018/0.018	0.026/0.026	0.042/0.042	0.054/0.054	0.068/0.068	0.125/0.125	0.135/0.135	0.137/0.137
	Starting current (50Hz/60Hz)	A	0.26/0.27		0.29/0.30	0.37/0.39	0.55/0.57	0.69/0.72	0.86/0.90	1.35/1.41	1.38/1.44	1.40/1.46
Appearance	Main unit	Heat-insulating material attached - Zinc hot dipping steel plate										
	Ceiling panel name	RBC-U41PG(W)-E										
	Panel color	White (Munsell: 2.5GY9.0/0.5)										
Outer dimensions	Main unit (HxWxD)	mm	256x840x840		319x840x840							
	Ceiling panel (HxWxD)	mm	30x950x950									
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/L)	m³/h	846/768/708		1060/920/800	1260/1100/940	1580/1300/1120	1770/1380/1250	1940/1520/1400	2184/1596/1260	2262/1740/1368	2262/1782/1404
	Motor output	W	60		130							
Sound pressure level (H/M/L)		dB(A)	30/28/26		32/30/28	36/33/31	41/37/35	42/37/35	44/39/37	45/38/32	46/39/33	46/40/35
Sound power level		dB(A)	45		46	50	55	56	58	60	61	61
Air filter		Standard filter supplied (Long life filter)										
Controller (Optional)		Wired or infrared remote controller										
Conecting pipe	Gas side	mm	9.5	9.5	12.7	12.7	15.9	15.9	15.9	15.9	15.9	15.9
	Liquid side	mm	6.4	6.4	6.4	6.4	9.5	9.5	9.5	9.5	9.5	9.5
	Drain port (nominal dia)	mm	25 (Polyvinyl chloride tube)									

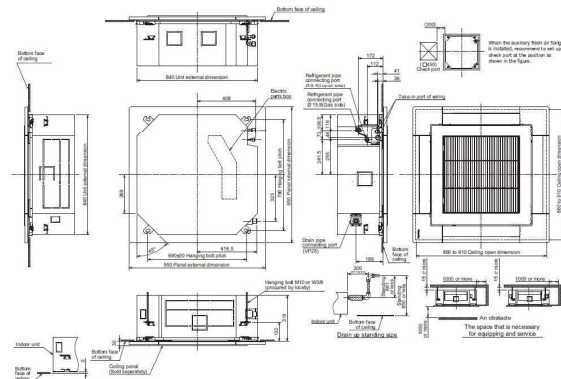
Drawings

Unit : mm

MMU-UP0091H-E to MMU-UP0121H-E



MMU-UP0151H-E to MMU-UP0561H-E



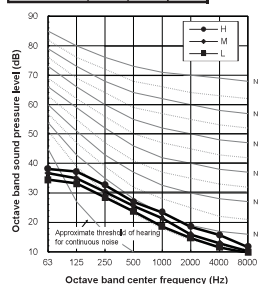
SMART 4-WAY CASSETTE

Sound pressure levels

Unit : dB(A)

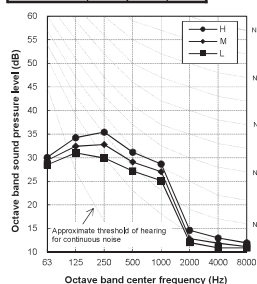
MMU-UP0091, 0121H-E

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



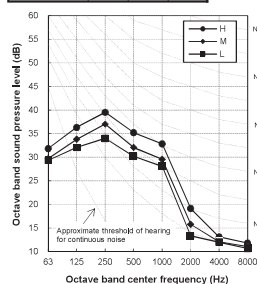
MMU-UP0151H-E

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



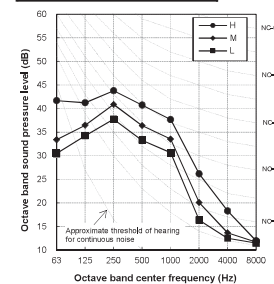
MMU-UP0181H-E

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



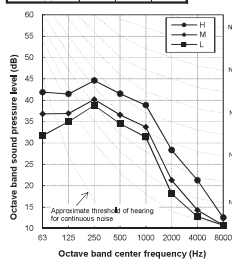
MMU-UP00241H-E

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



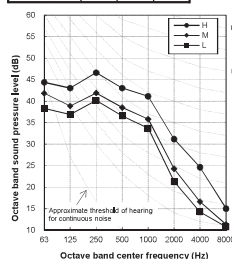
MMU-UP0271H-E

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



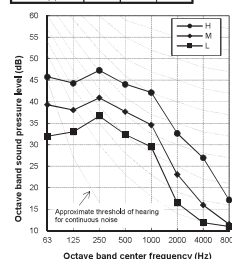
MMU-UP0301H-E

Fan tap	H	M	L
Sound pressure level (dB(A))	46	40	38



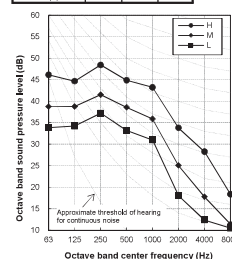
MMU-UP0361H-E

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



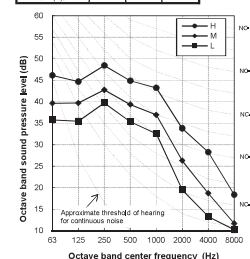
MMU-UP00481H-E

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



MMU-UP00561H-E

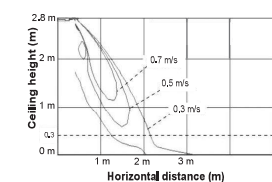
Fan tap	H	M	L
Sound pressure level (dB(A))	47	41	37



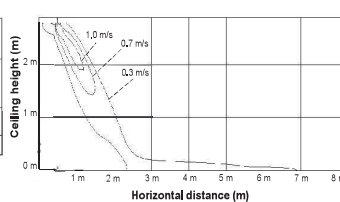
Air diffusion

Unit : m/s

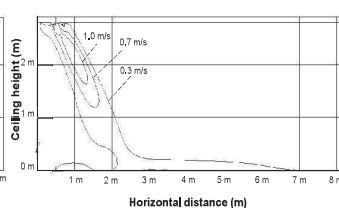
MMU-UP0091, 0121H-E



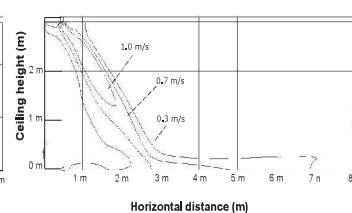
MMU-UP0151H-E



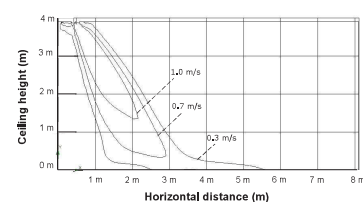
MMU-UP0181H-E



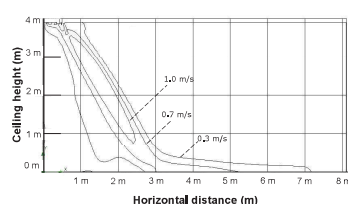
MMU-UP00241H-E



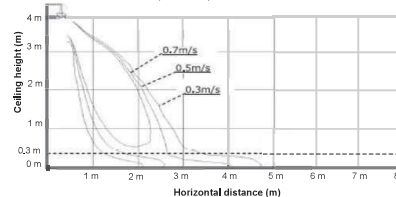
MMU-UP0271H-E



MMU-UP0301H-E



MMU-UP0361, 0481, 0561H-E



Accessories

No.	Part name	Model name	Remarks
1	Occupancy sensor	TCB-SIR41U-E	
2	Fresh air and filter chamber	TCB-GFC1603UE	
3	Spacer for height adjustment	TCB-SP1603UE	
4	Air discharge direction kit	TCB-BC1603UE	

Smart 4-way cassette connectors

• Available

CN32	CN60	CN61	CN70	CN73	CN80
Additional ventilation control from remote control	Operation status signal output (Cooling, heating, fan, defrost, thermo-on)	External On/Off, operation output and alarm output	Warning symbol on remote control based on signal input.o off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
•	•	•	•	•	•



MMU-UP_1HP-E
4-WAY CASSETTE



The 4-Way Cassette is designed to provide uniform air distribution and total user comfort making this unit the ideal solution for small commercial applications.

CAPACITY



1 HP ~ 6 HP

SOUND PRESSURE LEVEL



27 dB(A)

LOCAL CONTROLS



RBC-AXU31-E
RBC-AXU31U-E



RBC-ASCU11-E
RBC-AMTU31-E
RBC-AMSU51-EN/ES

Features

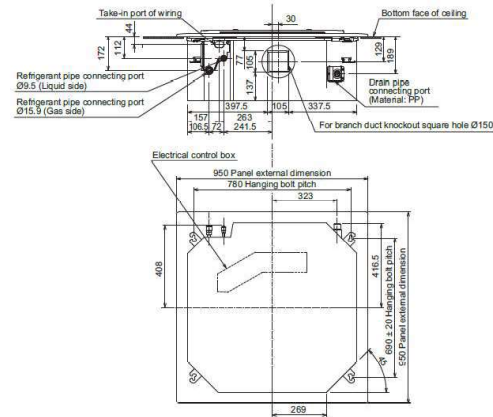
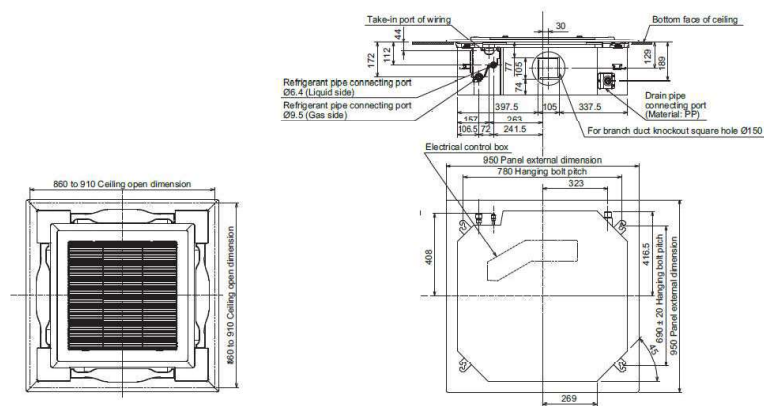
Model name		MMU-	UP0091HP-E	UP0121HP-E	UP0151HP-E	UP0181HP-E	UP0241HP-E	UP0271HP-E	UP0301HP-E	UP0361HP-E	UP0481HP-E	UP0561HP-E
Cooling code		HP	1.0	1.25	1.7	2.0	2.5	3.0	3.2	4.0	5.0	6.0
Cooling capacity		kW	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0
Heating capacity		kW	3.2	4.0	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0
Electrical characteristics	Power supply		1-phase 230V (220-240V) 50Hz / 1-phase 220V (208-230V) 60Hz									
	Running current (50Hz/60Hz)	A	0.23/0.24		0.28/0.29	0.29/0.30	0.38/0.40	0.38/0.39	0.43/0.45	0.73/0.76	0.88/0.92	
	Power consumption (50Hz/60Hz)	kW	0.021/0.021		0.023/0.023	0.026/0.026	0.036/0.036		0.043/0.043	0.088/0.088	0.112/0.112	
	Starting current (50Hz/60Hz)	A	0.30/0.30		0.33/0.33	0.36/0.36	0.42/0.42		0.59/0.59	0.87/0.87	1.23/1.23	1.26/1.26
Appearance	Main unit		Heat-insulating material attached - Zinc hot dipping steel plate									
	Ceiling panel name		RBC-U32PGP-E									
	Panel color		White (Munsell: 2.5GY9.0/0.5)									
Outer dimensions	Main unit (HxWxD)		256x840x840							319x840x840		
	Ceiling panel (HxWxD)		30x950x950									
Total weight	Main unit		18		20					25		
	Ceiling panel		4									
Heat exchanger			Finned tube									
Soundproof / Heat-insulating material			Non-flammable insulation									
Fan unit	Fan		Turbo fan									
	Standard air flow (H/M/L)		800/730/680		930/830/790	1050/920/800	1290/920/800		1320/1100/850	1970/1430/1070	2130/1430/1130	2130/1520/1230
	Motor output		14			20				68		72
Sound pressure level (H/M/L)		dB(A)	30/29/27		31/29/27	32/29/27	35/31/28		38/33/30	43/38/32	46/38/33	46/40/33
Sound power level		dB(A)	45		46	47	50		53	58	61	61
Air filter			Standard filter supplied (Long life filter)									
Controller (Optional)			Wired or infrared remote controller									
Conecting pipe	Gas side		mm	9.5	9.5	12.7	12.7	15.9	15.9	15.9	15.9	15.9
	Liquid side		mm	6.4	6.4	6.4	6.4	9.5	9.5	9.5	9.5	9.5
	Drain port (nominal dia)		mm	25 (Polyvinyl chloride tube)								

Drawings

Unit : mm

MMU-UP0091HP-E to MMU-UP0301HP-E

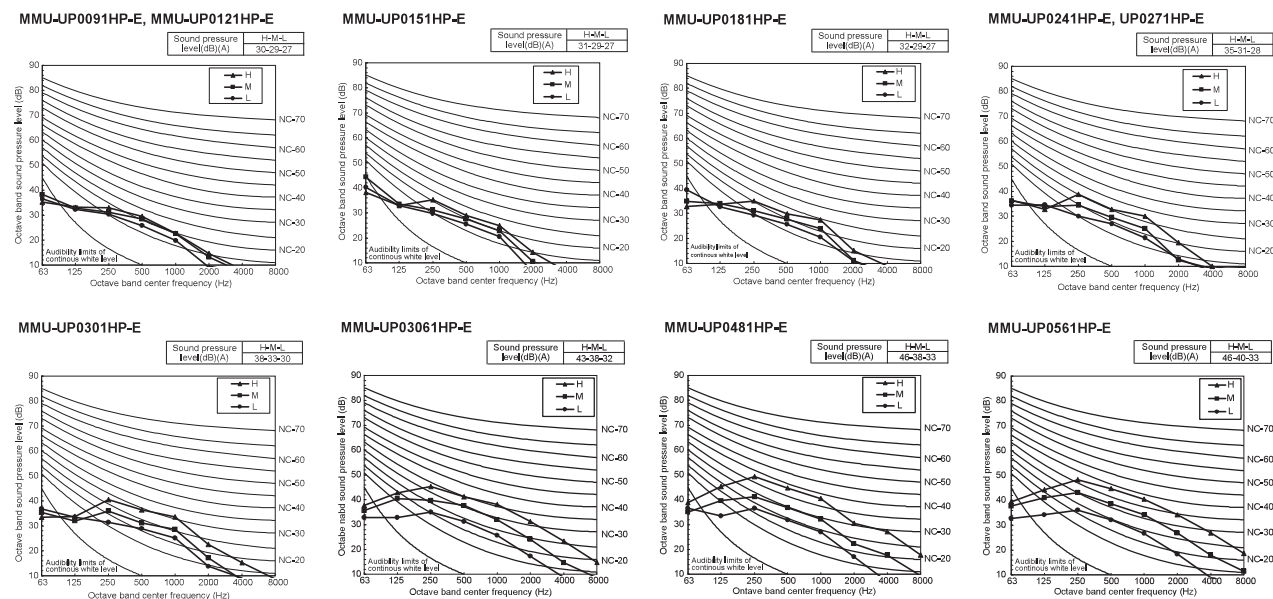
MMU-UP0361HP-E to MMU-UP0561HP-E



4-WAY CASSETTE

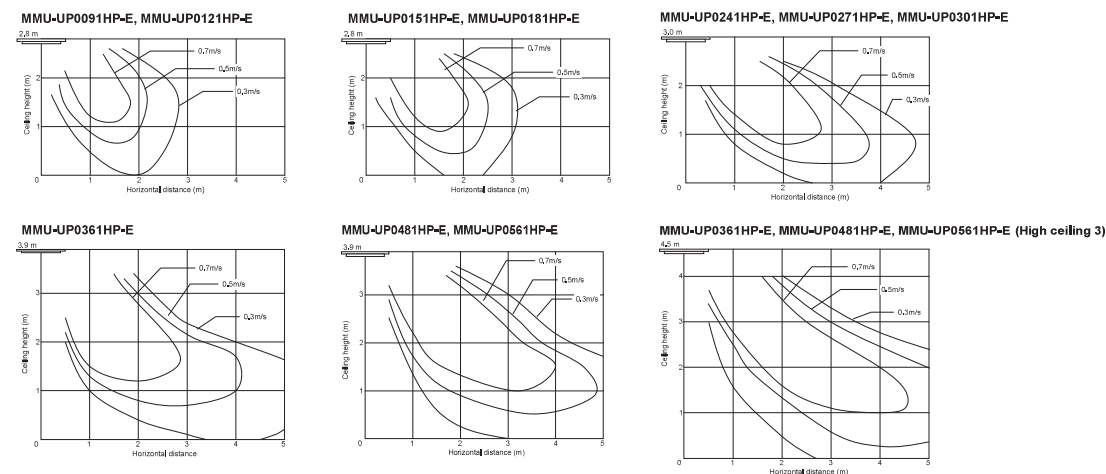
Sound pressure levels

Unit : dB(A)



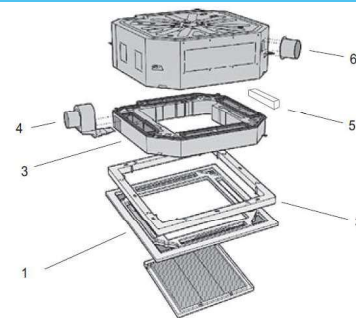
Air diffusion

Unit : m/s



Accessories

No.	Part name	Model name	Remarks
1	Ceiling Panel (Wide-flow louver)	RBC-U32PGP-E	White (Munsell: 2.5GY9.0/0.5)
2	Spacer for height adjustment	TCB-SP1602UE	50 mm
3	Fresh air chamber	TCB-GFC1602UE	Use with TCB-GB1602U
4	Fresh air intake box	TCB-GB1602UE	Connection=Dia,100 mm fresh air intake ratio: Up to 20%
5	Air discharge direction kit	TCB-BC1602UE	6-direction patterns
6	Auxiliary fresh air flange	TCB-FF101URE2	Connection=Dia,100 mm fresh air intake ratio: Up to 5%



4-way cassette connectors

• Available

CN32	CN60	CN61	CN70	CN73	CN80
Additional ventilation control from remote control	Operation status signal output (Cooling, heating, fan, defrost, thermo-on)	External On/Off, operation output and alarm output	Warning symbol on remote control based on signal input, o off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
•	•	•	•	•	•



MMU-UP_1MH-E COMPACT 4-WAY CASSETTE



The Compact 4-Way Cassette is especially designed for business office applications, where a compact and efficient solution is required.

CAPACITY
↑↑
0.8 HP ~ 2 HP

SOUND PRESSURE LEVEL
29 dB(A)

LOCAL CONTROLS



RBC-AXU31-E
RBC-AMTU31-UM-E



RBC-ASCU11-E
RBC-AMTU31-E
RBC-AMSU51-EN/ES

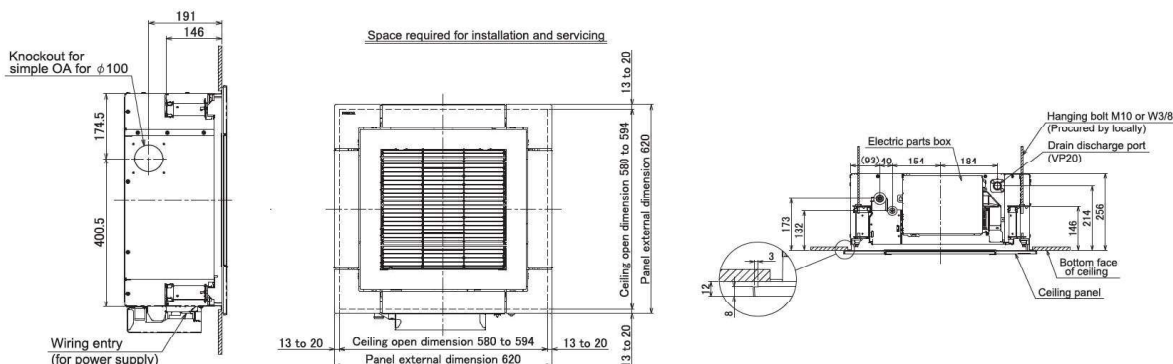
Features

Model name		MMU-	UP0071MH-E	UP0091MH-E	UP0121MH-E	UP0151MH-E	UP0181MH-E
Cooling code		HP	0.8	1.0	1.25	1.7	2.0
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6
Heating capacity		kW	2.5	3.2	4.0	5.0	6.3
Electrical characteristics	Power supply		1-phase 230V (220-240V) 50Hz / 1-phase 220V (208-230V) 60Hz				
	Running current (50Hz/60Hz)	A	0.23/0.23	0.24/0.24	0.25/0.25	0.28/0.26	0.46/0.46
	Power consumption (50Hz/60Hz)	kW	0.023/0.023	0.025/0.025	0.027/0.027	0.030/0.030	0.052/0.052
	Starting current (50Hz/60Hz)	A	0.41/0.41	0.43/0.43	0.44/0.44	0.50/0.47	0.80/0.81
Appearance	Main unit		Zinc hot dipping steel plate (Heat-insulating material attached to only upper plate)				
	Ceiling panel name		RBC-UM21PG(W)-E				
	Panel color		Gran White (Mansell 5PB9/1)				
Outer dimensions	Main unit (HxWxD)	mm	256x575x575				
	Ceiling panel (HxWxD)	mm	12x620x620				
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 (H/M/L)	m ³ /h	552/462/378	570/468/378	594/504/402	660/552/468	840/642/522
	Motor output	W	60				
Sound pressure level (H/M/L)		dB(A)	37/33/29	38/33/29	38/34/30	40/35/31	47/39/34
Sound power level		dB(A)	52	53	53	55	62
Air filter			Standard filter supplied (Long life filter)				
Controller (Optional)			Wired or infrared remote controller				
Connecting pipe	Gas side	mm	9.5	9.5	9.5	12.7	12.7
	Liquid side	mm	6.4	6.4	6.4	6.4	6.4
	Drain port (nominal dia)	mm	VP20 (Polyvinyl chloride tube)				

Drawings

Unit : mm

All model



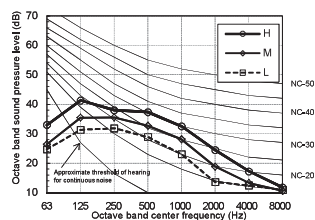
COMPACT 4-WAY CASSETTE

Sound pressure levels

Unit : dB(A)

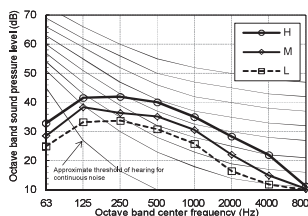
MMU-UP0071MH-E

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



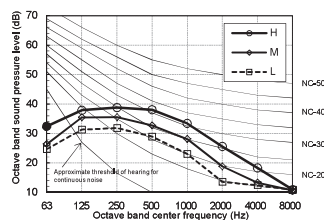
MMU-UP0151MH-E

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



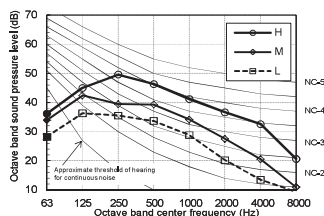
MMU-UP0091MH-E

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



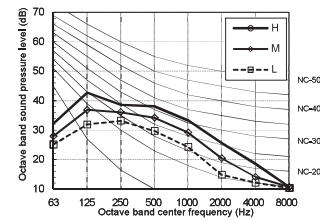
MMU-UP0181MH-E

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



MMU-UP0121MH-E

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

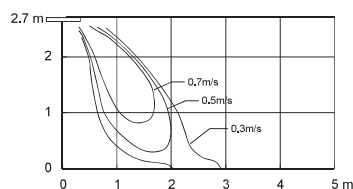


IDU

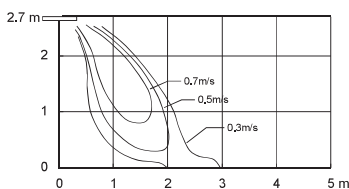
Air diffusion

Unit : m/s

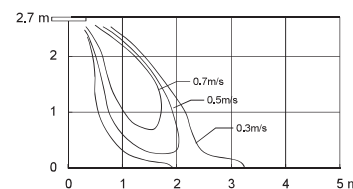
MMU-UP0071MH-E



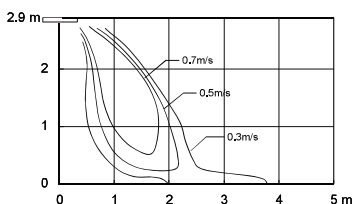
MMU-UP0091MH-E



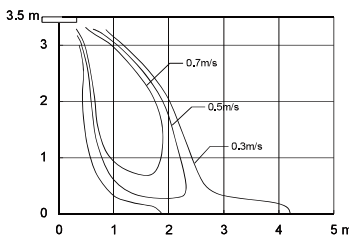
MMU-UP0121MH-E



MMU-UP0151MH-E

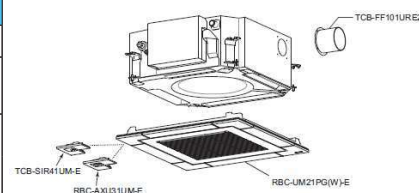


MMU-UP0181MH-E



Accessories

Part name	Model name	Applied model	Remarks
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)
Wireless Remote Control kit	RBC-AXU31UM-E		Wireless remote control kit and occupancy sensor cannot be used on the same indoor unit*
Occupancy sensor	TCB-SIR41UM-E		



Compact 4-way cassette connectors

* : Available

CN32	CN60	CN61	CN70	CN73	CN80
Additional ventilation control from remote control	Operation status signal output (Cooling, heating, fan, defrost, thermo-on)	External On/Off, operation output and alarm output	Warning symbol on remote control based on signal input.o off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
•	TCB-PCUC2E pcb needed	•	TCB-PCUC2E pcb needed	TCB-PCUC2E pcb needed	TCB-PCUC2E pcb needed



MMU-UP_1WH-E 2-WAY CASSETTE



Slim, compact and lightweight, the 2-Way Cassette has been designed to fit easily and discreetly into any room interior.

CAPACITY



0,8 HP ~ 6 HP

SOUND PRESSURE LEVEL



30 dB(A)

LOCAL CONTROLS



RBC-AXU31UW-E
RBC-AXU31-E



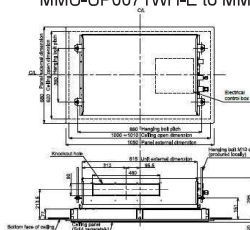
RBC-ASCU11-E
RBC-AMTU31-E
RBC-AMSU51-EN/ES

Features

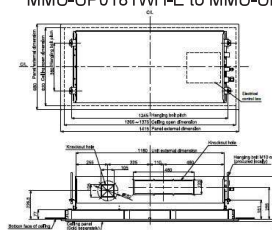
Model name		MMU-	UP0071WH-E	UP0091WH-E	UP0121WH-E	UP0161WH-E	UP0181WH-E	UP0241WH-E	UP0271WH-E	UP0301WH-E	UP0361WH-E	UP0481WH-E	UP0561WH-E	
Cooling code		HP	0.8	1.0	1.25	1.7	2.0	2.5	3.0	3.2	4.0	5.0	6.0	
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0	
Heating capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0	
Electrical characteristics	Power supply		1-phase 230V (220-240V) 50Hz / 1-phase 220V (208-230V) 60Hz											
	Running current (50Hz/60Hz)	A	0.21/0.22			0.21/0.22	0.28/0.29		0.37/0.39		0.43/0.46	0.50/0.53	0.57/0.59	0.77/0.81
	Power consumption (50Hz/60Hz)	kW	0.024/0.024			0.026/0.026	0.034/0.034		0.045/0.045		0.055/0.055	0.081/0.081	0.091/0.091	0.131/0.131
	Starting current (50Hz/60Hz)	A	0.31/0.32			0.33/0.35	0.42/0.44		0.57/0.60		0.65/0.68	0.76/0.79	0.85/0.89	1.17/1.22
Appearance	Main unit		Heat-insulating material attached - Zinc hot dipping steel plate											
	Ceiling panel name		RBC-UW283PG(W)-E				RBC-UW803PG(W)-E				RBC-UW1403PG(W)-E			
	Panel color		Moon white_(Munsell 2.5GY9.0/0.5)											
Outer dimensions	Main unit (HxWxD)	mm	295x815x570				345x1180x570				345x1600x570			
	Ceiling panel (HxWxD)	mm	20x1050x680				20x1415x680				20x1835x680			
Total weight	Main unit	kg	18				26				35			
	Ceiling panel	kg	10				14				14			
Heat exchanger		Finned tube												
Soundproof / Heat-insulating material		Non-flammable insulation												
Fan unit	Fan		Turbo fan					Centrifugal fan						
	Standard air flow (H/M/L)	m³/h	558/498/450			600/534/450	900/750/618	1050/840/738		1260/900/780	1740/1434/1182	1800/1482/1230	2040/1578/1320	
	Motor output		W	60			94					139		
Sound pressure level (H/M/L)		dB(A)	34/32/30			35/33/30		38/35/33		40/37/34	42/39/36	43/40/37	46/42/39	
Sound power level		dB(A)	49			50		53		55	57	58	61	
Air filter		Standard filter supplied (Long life filter)												
Controller (Optional)		Wired or infrared remote controller												
Conecting pipe	Gas side	mm	9.5	9.5	9.5	12.7	12.7	15.9	15.9	15.9	15.9	15.9	15.9	
	Liquid side	mm	6.4	6.4	6.4	6.4	6.4	9.5	9.5	9.5	9.5	9.5	9.5	
	Drain port (nominal dia)	mm	25 (Polyvinyl chloride tube)											

Drawings

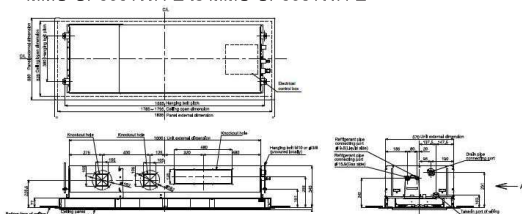
MMU-UP0071WH-E to MMU-UP0151WH-E



MMU-UP0181WH-E to MMU-UP0301WH-E



MMU-UP0361WH-E to MMU-UP0561WH-E

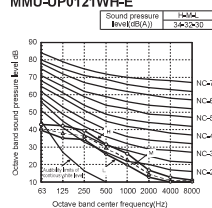


Unit : mm

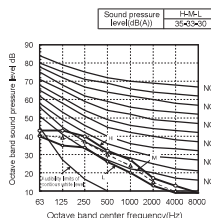
2-WAY CASSETTE

Sound pressure levels

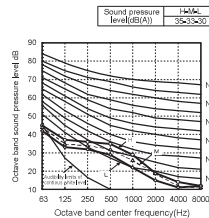
Unit : dB(A)

MMU-UP0071WH-E, MMU-UP0091WH-E,
MMU-UP0121WH-E

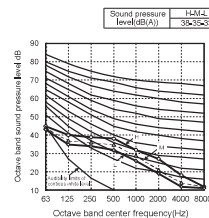
MMU-UP0151WH-E



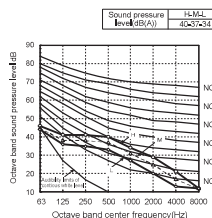
MMU-UP0181WH-E



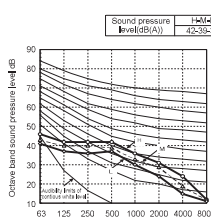
MMU-UP0241WH-E, MMU-UP0271WH-E



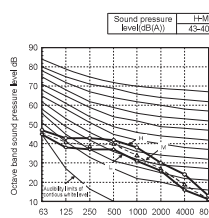
MMU-UP0301WH-E



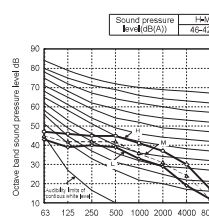
MMU-UP0361WH-E



MMU-UP0481WH-E

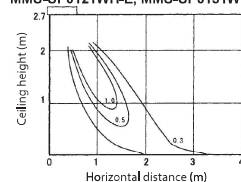


MMU-UP0561WH-E

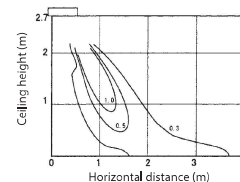


Air diffusion

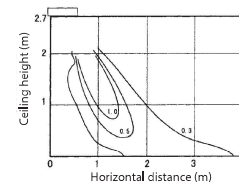
Unit : m/s

MMU-UP0071WH-E, MMU-UP0091WH-E,
MMU-UP0121WH-E, MMU-UP0151WH-E

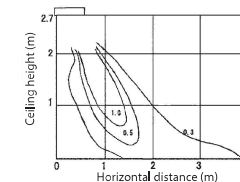
MMU-UP0181WH-E



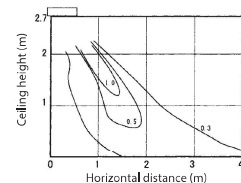
MMU-UP0241WH-E, MMU-UP0271WH-E



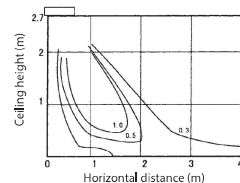
MMU-UP0301WH-E



MMU-UP0361WH-E, MMU-UP0481WH-E

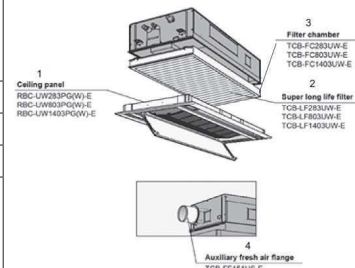


MMU-UP0561WH-E



Accessories

No.	Part name	Model name	Applied model	Notes	Remarks
1	Ceiling Panel	RBC-UW283PG(W)-E	MMU-UP0071 to 0151WH	Required accessory	
		RBC-UW803PG(W)-E	MMU-UP0181 to 0301WH		
		RBC-UW1403PG(W)-E	MMU-UP0361 to 0561WH		
2	Super long life filter	TBC-LF283UW-E	MMU-UP0071 to 0151WH	Dust collecting effect: 50% (Weight method)	Use with TBC-FC283UW-E
		TBC-LF803UW-E	MMU-UP0181 to 0301WH		Use with TBC-FC803UW-E
		TBC-LF1403UW-E	MMU-UP0361 to 0561WH		Use with TBC-FC1403UW-E
3	Filter chamber	TBC-FC283UW-E	MMU-UP0071 to 0151WH	For super long life filter	
		TBC-FC803UW-E	MMU-UP0181 to 0301WH		
		TBC-FC1403UW-E	MMU-UP0361 to 0561WH		
4	Auxiliary fresh air flange	TBC-FF151US-E	MMU-UP0071 to 0561WH	For fresh air intake by using the knockout hole of indoor unit.	



2-way cassette connectors

• Available

CN32	CN60	CN61	CN70	CN73	CN80
Additional ventilation control from remote control	Operation status signal output (Cooling, heating, fan, defrost, thermo-on)	External On/Off, operation output and alarm output	Warning symbol on remote control based on signal input.o off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
•	•	•	•	•	•

MMU-UP_1YHP-E/SH-E 1-WAY CASSETTE

> NEW


Toshiba's innovative slim-line 1-Way Cassette is simple to install and suitable for small areas, such as hotels, offices and reception rooms.

CAPACITY



0.8 HP ~ 2.5 HP

SOUND PRESSURE LEVEL



25 dB(A)

LOCAL CONTROLS



RBC-AX33UY-P-E



RBC-AXU31C-E

RBC-ASCU11-E
RBC-AMTU31-E
RBC-AMSU51-EN/ES

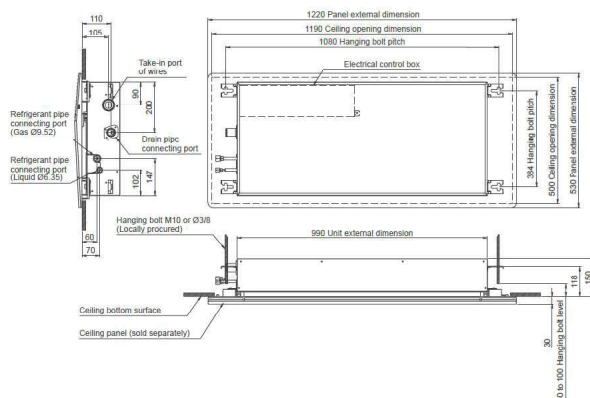
Features

Model name		MMU-	UP0071YHP-E	UP0091YHP-E	UP0121YHP-E	UP0151SH-E	UP0181SH-E	UP0241SH-E
Cooling code		HP	0.8	1.0	1.25	1.7	2.0	2.5
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0
Electrical characteristics	Power supply		1-phase 230V (220-240V) 50Hz / 1-phase 220V (208-230V) 60Hz					
	Running current (50Hz/60Hz)	A	0.17/0.18	0.18/0.19	0.19/0.20	0.34/0.35	0.37/0.39	0.62/0.62
	Power consumption (50Hz/60Hz)	kW	0.017/0.017	0.018/0.018	0.019/0.019	0.042/0.041	0.046/0.045	0.075/0.073
	Starting current (50Hz/60Hz)	A	0.43/0.43	0.43/0.43	0.43/0.43	0.51/0.53	0.54/0.54	0.80/0.80
Appearance	Main unit		Heat-insulating material attached - Zinc hot dipping steel plate					
	Ceiling panel name		RBC-UY32P-E			RBC-US21PGE		
	Panel color		Moon white_(Munsell 2.5GY9.0/0.5)					
Outer dimensions	Main unit (HxWxD)	mm	150x990x450			200x1000x710		
	Ceiling panel (HxWxD)	mm	30x1220x530			20x1230x800		
Total weight	Main unit	kg	14			21		22
	Ceiling panel	kg	4			5.5		
Heat exchanger			Finned tube					
Soundproof / Heat-insulating material			Non-flammable insulation			Polyethylene foam + Expanded polyethylene		
Fan unit	Fan		Centrifugal fan					
	Standard air flow (H/M/L)	m³/h	500/390/270	520/410/290	540/420/290	750/690/630	780/720/660	1140/960/810
	Motor output	W	30					
Sound pressure level (H/M/L)		dB(A)	38/34/25	39/35/26	40/36/26	37/35/32	38/36/34	45/41/37
Sound power level		dB(A)	53	54	55	52	53	60
Air filter			Standard filter supplied (Long life filter) / Air purifier available as option			Standard filter supplied (Long life filter)		
Controller (Optional)			Wired or infrared remote controller					
Conecting pipe	Gas side	mm	9.5	9.5	9.5	12.7	12.7	15.9
	Liquid side	mm	6.4	6.4	6.4	6.4	6.4	9.5
	Drain port (nominal dia)	mm	25 (Polyvinyl chloride tube)					

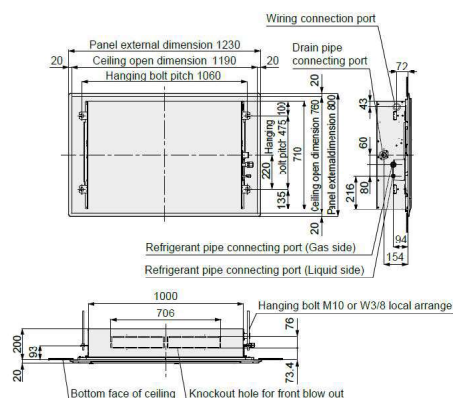
Drawings

Unit : mm

MMU-UP0071YHP-E to MMU-UP0121YHP-E



MMU-UP0151SH-E to MMU-UP0241SH-E

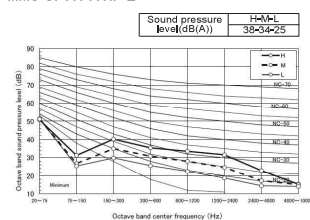


1-WAY CASSETTE

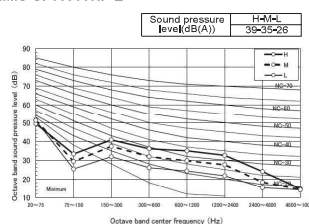
Sound pressure levels

Unit : dB(A)

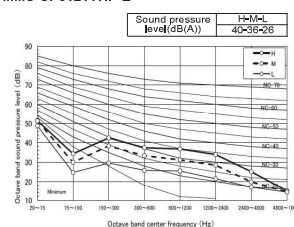
MMU-UP0071YHP-E



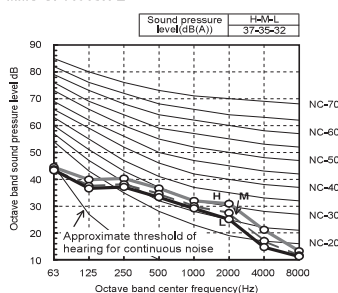
MMU-UP0091YHP-E



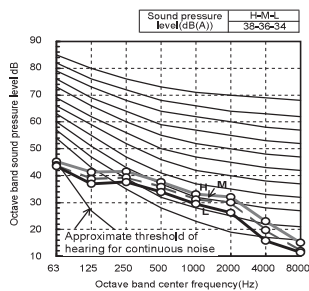
MMU-UP0121YHP-E



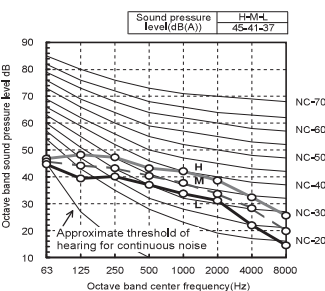
MMU-UP0151SH-E



MMU-UP0181SH-E



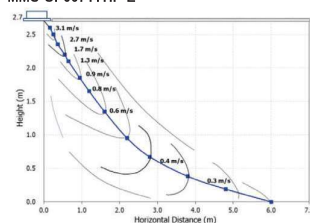
MMU-UP0241SH-E



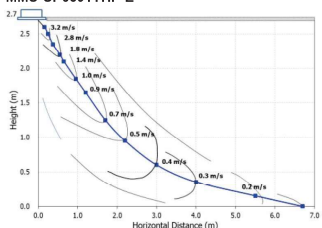
Air diffusion

Unit : m/s

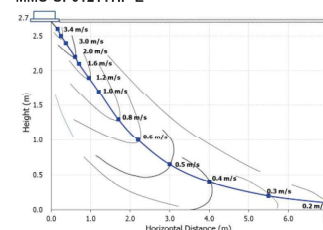
MMU-UP0071YHP-E



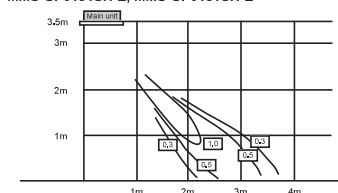
MMU-UP0091YHP-E



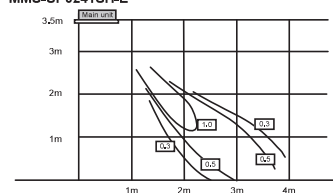
MMU-UP0121YHP-E



MMU-UP0151SH-E, MMU-UP0181SH-E

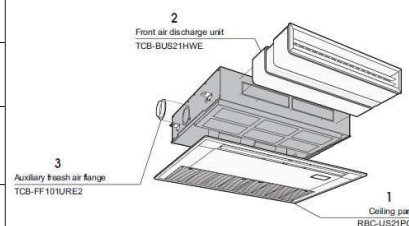


MMU-UP0241SH-E



Accessories

No.	Part name	Model name	Applied model	Notes	Remarks
1	Ceiling Panel	RBC-UY32P-E	MMU-UP_1YHP-E	1-Way cassette panel without receiver	Required accessory
		RBC-US21PGE			Required accessory
2	Front air discharge unit	TCB-BUS21HWE	MMU-UP_1SH-E		
3	Auxiliary fresh air flange	TCB-FF101URE2			
4	Air purifier kit	TCB-EAPC1UYHP-E	MMU-UP-1YHP-E	Set of Plasma Air Purifier, Dust sensor, Air quality indicator, Wireless receiver and Wireless RC	
5	Occupancy sensor	TCB-SIR41UYHP-E	MMU-UP-1YHP-E	Occupancy sensor	Cannot match with Wireless receiver Kit
6	Wireless receiver kit	RBC-AX33UYHP-E	MMU-UP-1YHP-E	Wireless RC kit	Cannot match with Occupancy sensor
7	Wireless receiver kit	RBC-AXU31C-E	MMU-UP-1SH-E	Wireless RC kit	



1-way cassette connectors

* : Available

	CN32	CN60	CN61	CN70	CN73	CN80
	Additional ventilation control from remote control	Operation status signal output (Cooling, heating, fan, defrost, thermo-on)	External On/Off, operation output and alarm output	Warning symbol on remote control based on signal input.o off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
YHP-E	•	TCB-PCUC2E pcb needed	•	TCB-PCUC2E pcb needed	TCB-PCUC2E pcb needed	TCB-PCUC2E pcb needed
SH-E	•	•	•	•	•	•



MMD-UP_1SPHY-E SLIM DUCT



Whatever installed in a ceiling void or in a false ceiling, Toshiba Slim Duct offers the ultimate technology, with exceptional energy saving, high performance and easy installation.

CAPACITY



0,8 HP ~ 3 HP

SOUND PRESSURE LEVEL



26 dB(A)

LOCAL CONTROLS



RBC-AXU31-E



RBC-ASCU11-E
RBC-AMTU31-E
RBC-AMSU51-EN/ES

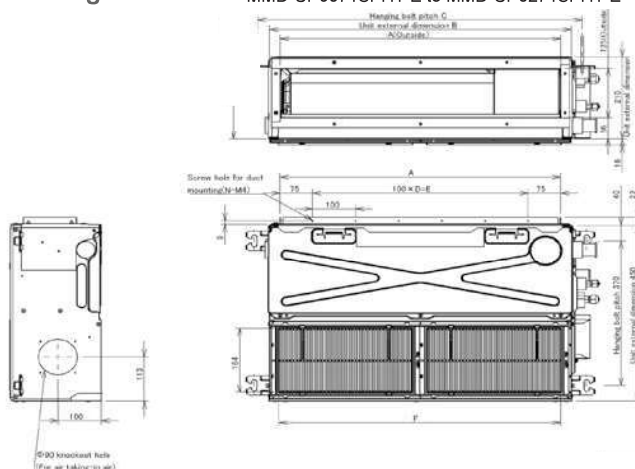
Features

Model name		MMD-	UP0071SPHY-E	UP0091SPHY-E	UP0121SPHY-E	UP0151SPHY-E	UP0181SPHY-E	UP0241SPHY-E	UP0271SPHY-E
Cooling code		HP	0.8	1.0	1.25	1.7	2.0	2.5	3.0
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0
Heating capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0	9.0
Electrical characteristics	Power supply		1-phase 50Hz 220-240V / 1-phase 60Hz 208-230V						
	Running current (50Hz/60Hz)	A	0.40/0.42	0.42/0.44	0.44/0.46	0.47/0.49	0.53/0.56	0.69/0.73	0.74/0.78
	Power consumption (50Hz/60Hz)	kW	0.026/0.026	0.029/0.029	0.031/0.031	0.035/0.035	0.044/0.044	0.067/0.067	0.072/0.072
	Starting current (50Hz/60Hz)	A	0.69/0.73	0.73/0.77	0.77/0.81	0.82/0.86	0.92/0.97	1.21/1.27	1.30/1.36
Appearance			Zinc hot dipping steel plate						
Outer dimensions (HxWxD)		mm	210x700x450			210x900x450		210x1110x450	
Total weight		kg	15			19		22	
Heat exchanger			Finned tube						
Soundproof / Heat-insulating material			Polyethylene foam + Polyurethane foam						
Fan unit	Fan		Centrifugai fan (sirocco fan)						
	Standard air flow (H/M/L)	m³/h	540/460/400	570/500/420	600/520/440	690/640/550	780/730/650	1080/950/860	1140/980/910
	Motor output	W	50			94			
	External static pressure (Factory setting)	Pa	10						
	External static pressure	Pa	10-20-30-40-50 (5 Steps)						
Sound pressure level (H/M/L)	Under air intake	dB(A)	41/39/35	42/40/36	44/40/37	42/39/37	44/42/39	47/44/41	48/45/43
	Back air intake	dB(A)	31/29/26	32/29/26	33/30/27	33/30/28	34/32/29	36/33/30	37/34/32
Sound power level		dB(A)	52	54	54	52	56	60	61
Air filter			Standard filter supplied (Long life filter)						
Controller (Optional)			Wired or infrared remote controller						
Conecting pipe	Gas side	mm	9.5	9.5	9.5	12.7	12.7	15.9	15.9
	Liquid side	mm	6.4	6.4	6.4	6.4	6.4	9.5	9.5
	Drain port (nominal dia)	mm	25 (Polyvinyl chloride tube : External dia.32 Internal dia.25)						

Drawings

MMD-UP0071SPHY-E to MMD-UP0271SPHY-E

Unit : mm



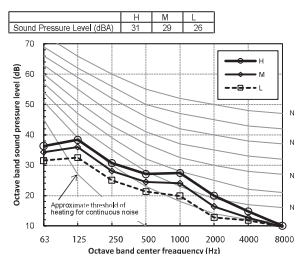
MMD-UP***1SPHY-E	007-012	015-018	024-027
A	650	850	1050
B	700	900	1100
C	770	970	1170
D	5	7	9
E	500	700	900
F	655	855	1055
G	6.4	9.5	9.5
H	9.5	12.7	15.9

SLIM DUCT

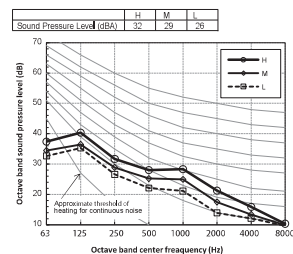
Sound pressure levels

Unit : dB(A)

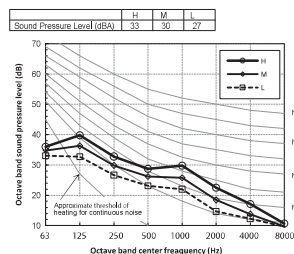
MMD-UP0071SPHY-E



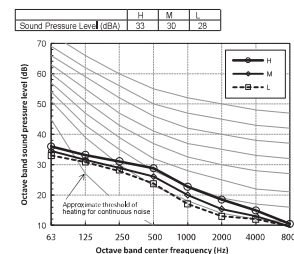
MMD-UP0091SPHY-E



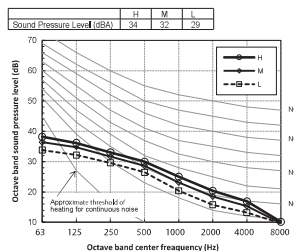
MMD-UP0121SPHY-E



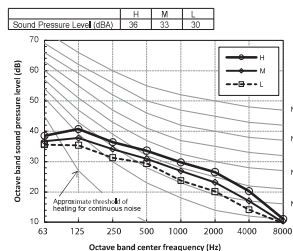
MMD-UP0151SPHY-E



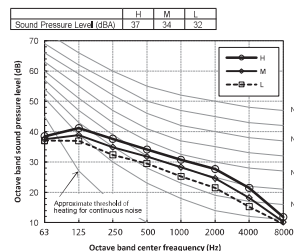
MMD-UP0181SPHY-E



MMD-UP0241SPHY-E



MMD-UP0271SPHY-E



IDU

Accessories

Part name	Model name	Applied model	Remarks
Auxiliary fresh air flange	TCB-FF101URE2	MMD-UP_1SPHY-E	For fresh air intake by using the knockout hole of indoor unit (dia.=100 mm)

Slim duct connectors

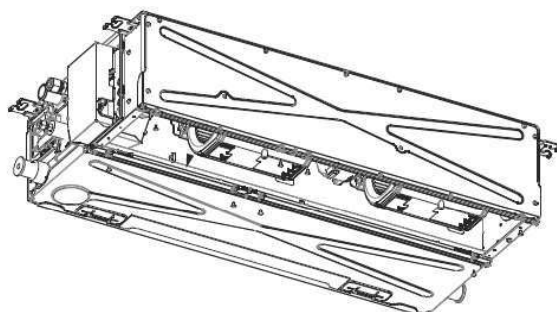
• Available

CN32	CN60	CN61	CN70	CN73	CN80
Additional ventilation control from remote control	Operation status signal output (Cooling, heating, fan, defrost, thermo-on)	External On/Off, operation output and alarm output	Warning symbol on remote control based on signal input.o off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
•	TCB-PCUC2E pcb needed	•	TCB-PCUC2E pcb needed	TCB-PCUC2E pcb needed	TCB-PCUC2E pcb needed

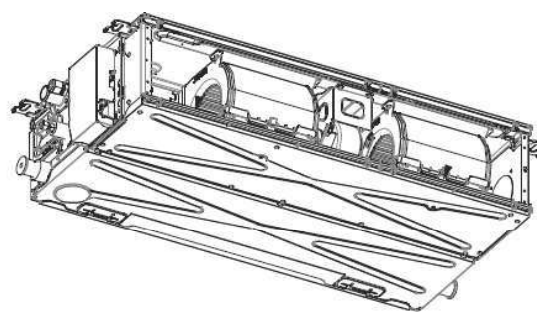
Installation flexibility

Change from under air intake to back air intake

Under air intake



Back air intake





MMD-UP_1BHP-E STANDARD DUCT



Whatever the shape of the room,
this flexible model ensures a uniform
temperature and air distribution for
optimal end user comfort.

CAPACITY



0,8 HP ~ 6 HP

SOUND PRESSURE LEVEL



23 dB(A)

LOCAL CONTROLS



RBC-AXU31-E



RBC-ASCU11-E
RBC-AMTU31-E
RBC-AMSU51-EN/ES

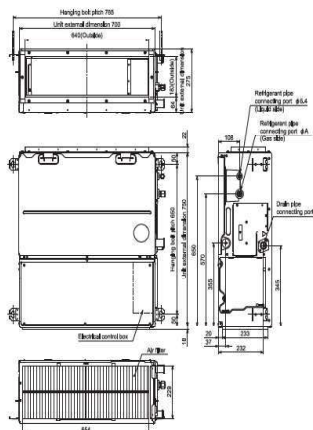
Features

Model name		MMD-	UP0071BHP-E	UP0091BHP-E	UP0121BHP-E	UP0151BHP-E	UP0181BHP-E	UP0241BHP-E	UP0271BHP-E	UP0301BHP-E	UP0361BHP-E	UP0481BHP-E	UP0561BHP-E	
Cooling code		HP	0.8	1.0	1.25	1.7	2.0	2.5	3.0	3.2	4.0	5.0	6.0	
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0	
Heating capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0	
Electrical characteristics	Power supply		1-phase 50Hz 220-240V / 1-phase 60Hz 208-230V											
	Running current (50Hz/60Hz)	A	0.35/0.36	0.38/0.40		0.70/0.72		0.80/0.83		0.95/0.98	1.29/1.33	1.70/1.70		
	Power consumption (50Hz/60Hz)	kW	0.055/0.055	0.060/0.060		0.110/0.110		0.135/0.135		0.160/0.160	0.220/0.220	0.290/0.290		
	Starting current (50Hz/60Hz)	A	0.55/0.56	0.58/0.60		1.10/1.12		1.20/1.23		1.35/1.38	2.09/2.13	2.50/2.56		
Appearance			Zinc hot dipping steel plate											
Dimensions (HxWxD)		mm	275x700x750						275x1000x750			275x1400x750		
Total weight		kg	23						30			40		
Heat exchanger			Finned tube											
Soundproof / Heat-insulating material			Polyethylene foam											
Fan unit	Fan		Centrifugal fan											
	Standard air flow (H/M/L)	m³/h	540/450/360	570/480/390		920/660/540		1320/1090/870		1450/1200/960	1920/1620/1380	2350/1920/1500	2350/1090/1500	
	Motor output	W	150									250		
	External static pressure (Factory setting)	Pa	30						40			50		
	External static pressure	Pa	30-40-50-65-80-100-150 (7 Steps)											
Sound pressure level (H/M/L)		dB(A)	29/26/23	30/26/23	30/26/23	33/29/25	33/29/25	33/30/27	33/30/27	36/31/27	36/34/31	40/36/33	40/36/33	
Sound power level		dB(A)	44	45	45	48	48	48	48	51	51	55	55	
Air filter			Standard filter supplied (Long life filter)											
Controller (Optional)			Wired or infrared remote controller											
Conecting pipe	Gas side	mm	9.5	9.5	9.5	12.7	12.7	15.9	15.9	15.9	15.9	15.9	15.9	
	Liquid side	mm	6.4	6.4	6.4	6.4	6.4	9.5	9.5	9.5	9.5	9.5	9.5	
	Drain port (nominal dia)	mm	25 (Polyvinyl chloride tube)											

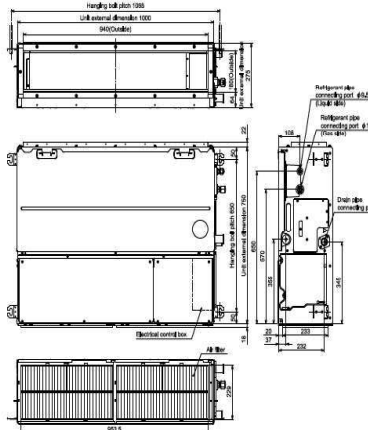
Drawings

Unit : mm

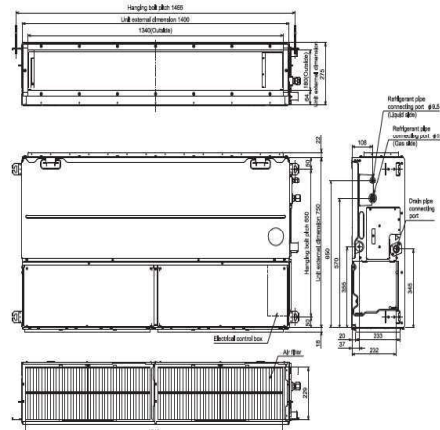
MMD-UP0071BHP-E to MMD-UP0181BHP-E



MMD-UP0241BHP-E to MMD-UP0301BHP-E



MMD-UP0361BHP-E to MMD-UP0561BHP-E



STANDARD DUCT

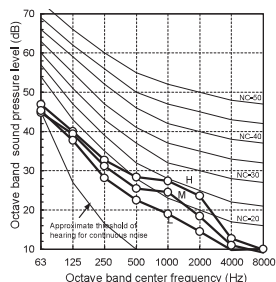
Sound pressure levels

Unit : dB(A)

MMD-UP0071BHP-E

External static pressure 80 Pa

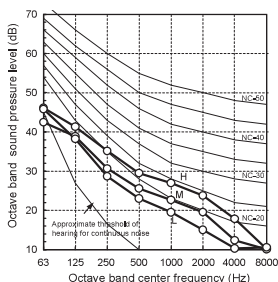
FAN tap	H	M	L
Sound pressure level (dB(A))	33	30	27



MMD-UP0091BHP-E, MMD-UP0121BHP-E

External static pressure 80 Pa

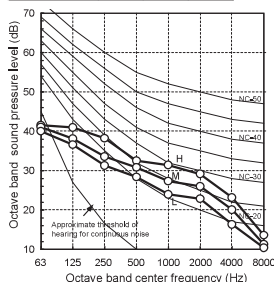
FAN tap	H	M	L
Sound pressure level (dB(A))	34	30	28



MMD-UP0151BHP-E, MMD-UP0181BHP-E

External static pressure 80 Pa

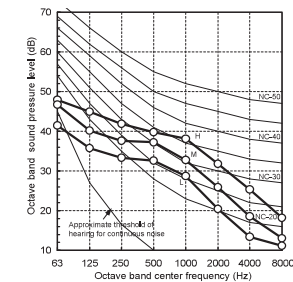
FAN tap	H	M	L
Sound pressure level (dB(A))	37	33	31



MMD-UP0241BHP-E, MMD-UP0271BHP-E

External static pressure 80 Pa

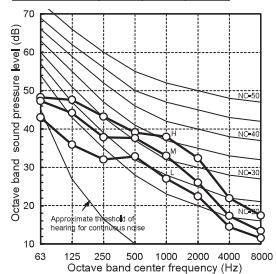
FAN tap	H	M	L
Sound pressure level (dB(A))	42	38	33



MMD-UP0301BHP-E

External static pressure 80 Pa

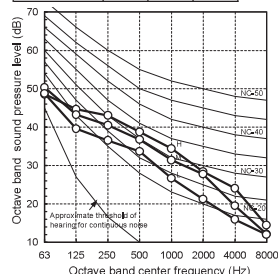
FAN tap	H	M	L
Sound pressure level (dB(A))	42	39	33



MMD-UP0361BHP-E

External static pressure 80 Pa

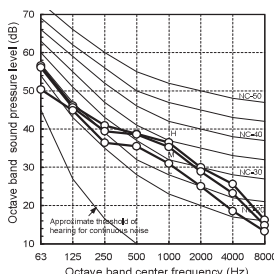
FAN tap	H	M	L
Sound pressure level (dB(A))	41	39	35



MMD-UP0481BHP-E, MMD-UP0561BHP-E

External static pressure 80 Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	41	40	36



Accessories

Part name	Model name	Applied model	Appearance	Remarks
Spigot shaped flange	TCB-SF56C6BE	MMD-UP0071/0091/0121/0151/0181BHP-E		263x694x175mm / Spigot diameter 200mm
	TCB-SF80C6BE	MMD-UP0241/0271/0301BHP-E		263x994x175mm / Spigot diameter 200mm
	TCB-SF160C6BE	MMD-UP0361/0481/0561BHP-E		263x1394x175mm / Spigot diameter 200mm

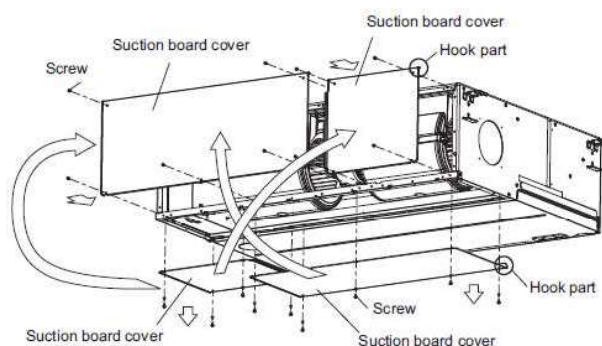
1-way cassette connectors

• Available

CN32	CN60	CN61	CN70	CN73	CN80
Additional ventilation control from remote control	Operation status signal output (Cooling, heating, fan, defrost, thermo-on)	External On/Off, operation output and alarm output	Warning symbol on remote control based on signal input, o. off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
•	•	•	•	•	•

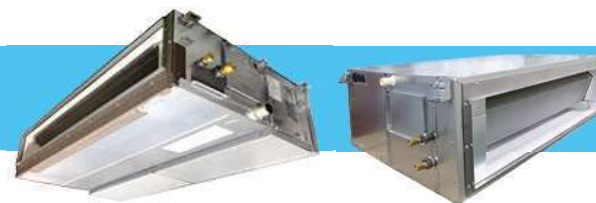
Installation flexibility

Changing from back air intake to under air intake





MMD-UP_1HP-E HIGH STATIC PRESSURE DUCT



This is Toshiba's most powerful ducted unit delivering air flows up to 4,800 m³/h with an external static pressure up to 250 Pa.

CAPACITY



2 HP ~ 10 HP

SOUND PRESSURE LEVEL



31 dB(A)

LOCAL CONTROLS



RBC-AXU31-E



RBC-ASCU11-E
RBC-AMTU31-E
RBC-AMSU51-EN/ES

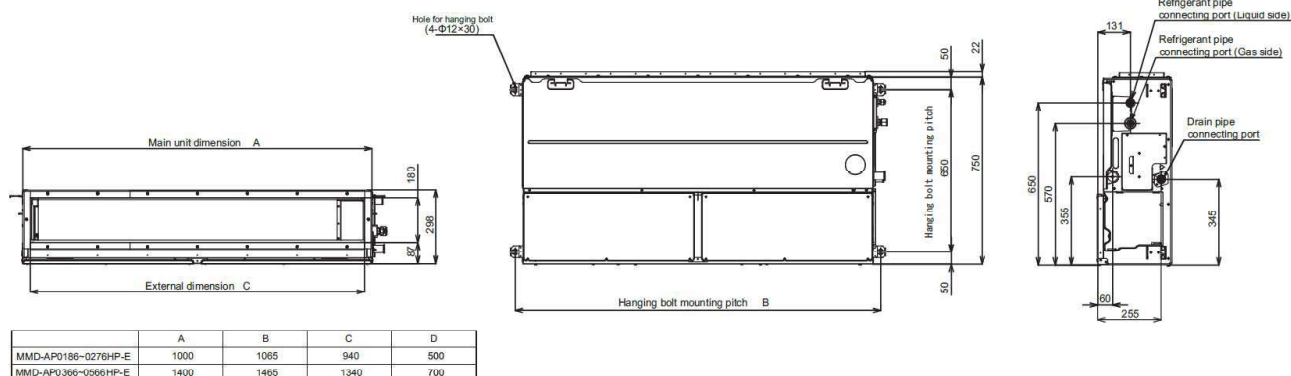
Features

Model name		MMD-	UP0181HP-E	UP0241HP-E	UP0271HP-E	UP0361HP-E	UP0481HP-E	UP0561HP-E	UP0721HP-E	UP0961HP-E
Cooling code		HP	2.0	2.5	3.0	4.0	5.0	6.0	8.0	10.0
Cooling capacity		kW	5.6	7.1	8.0	11.2	14.0	16.0	22.4	28.0
Heating capacity		kW	6.3	8.0	9.0	12.5	16.0	18.0	25.0	31.5
Electrical characteristics	Power supply		1-phase 50Hz 220-240V / 1-phase 60Hz 208-230V							
	Running current (50Hz/60Hz)	A	0.82/0.85	0.92/0.95	1.16/1.20	1.39/1.43	1.81/1.86	2.48/2.57	2.83/2.93	3.77/3.92
	Power consumption (50Hz/60Hz)	kW	0.125/0.125	0.140/0.140	0.190/0.190	0.230/0.230	0.300/0.300	0.400/0.400	0.540/0.540	0.790/0.790
	Starting current (50Hz/60Hz)	A	1.12/1.15	1.22/1.25	1.46/1.50	1.89/1.93	2.41/2.46	3.08/3.17	7.80/8.15	7.80/8.15
Appearance			Zinc hot dipping steel plate							
Dimensions (HxWxD)		mm	298x1000x750			298x1400x750			448x1400x900	
Total weight		kg	34			43			97	
Heat exchanger			Finned tube							
Soundproof / Heat-insulating material			Polyethylene foam							
Fan unit	Fan		Centrifugal fan							
	Standard air flow (H/M/L)	m³/h	1100/990/900	1200/1050/960	1500/1350/1200	1920/1560/1340	2340/1980/1695	2760/2340/1920	3800/3200/2500	4800/4200/3500
	Motor output	W	250			350			250	
	External static pressure (Factory setting)	Pa	100						150	
	External static pressure	Pa	50-75-125-100-150-175-200 (7steps)						50-83-117-150-183-217-250 (7steps)	
Sound pressure level (H/M/L)		dB(A)	37/33/31	38/34/31	43/41/38	41/37/34	44/44/38	46/44/41	44/40/36	46/42/38
Sound power level		dB(A)	60			62	67	69	79	81
Air filter			Sold separately (TCB-LK801D-E)			Sold separately (TCB-LK1401D-E)			Sold separately (TCB-LK2801DP-E)	
Controller (Optional)			Wired or infrared remote controller							
Conecting pipe	Gas side	mm	12.7	15.9	15.9	15.9	15.9	15.9	22.2	22.2
	Liquid side	mm	6.4	9.5	9.5	9.5	9.5	9.5	12.7	12.7
	Drain port (nominal dia)	mm	25 (Polyvinyl chloride tube)							

Drawings

Unit : mm

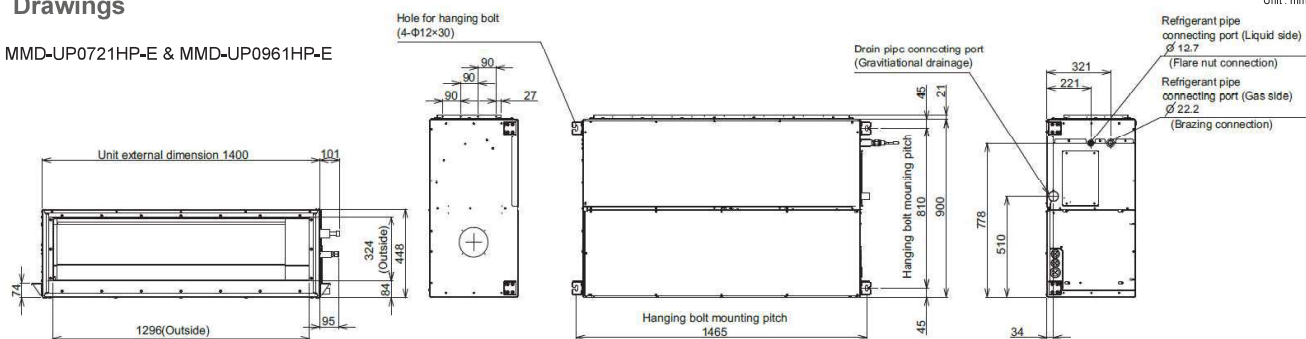
MMD-UP0181HP-E to MMD-UP0561HP-E



HIGH STATIC PRESSURE DUCT

Drawings

MMD-UP0721HP-E & MMD-UP0961HP-E

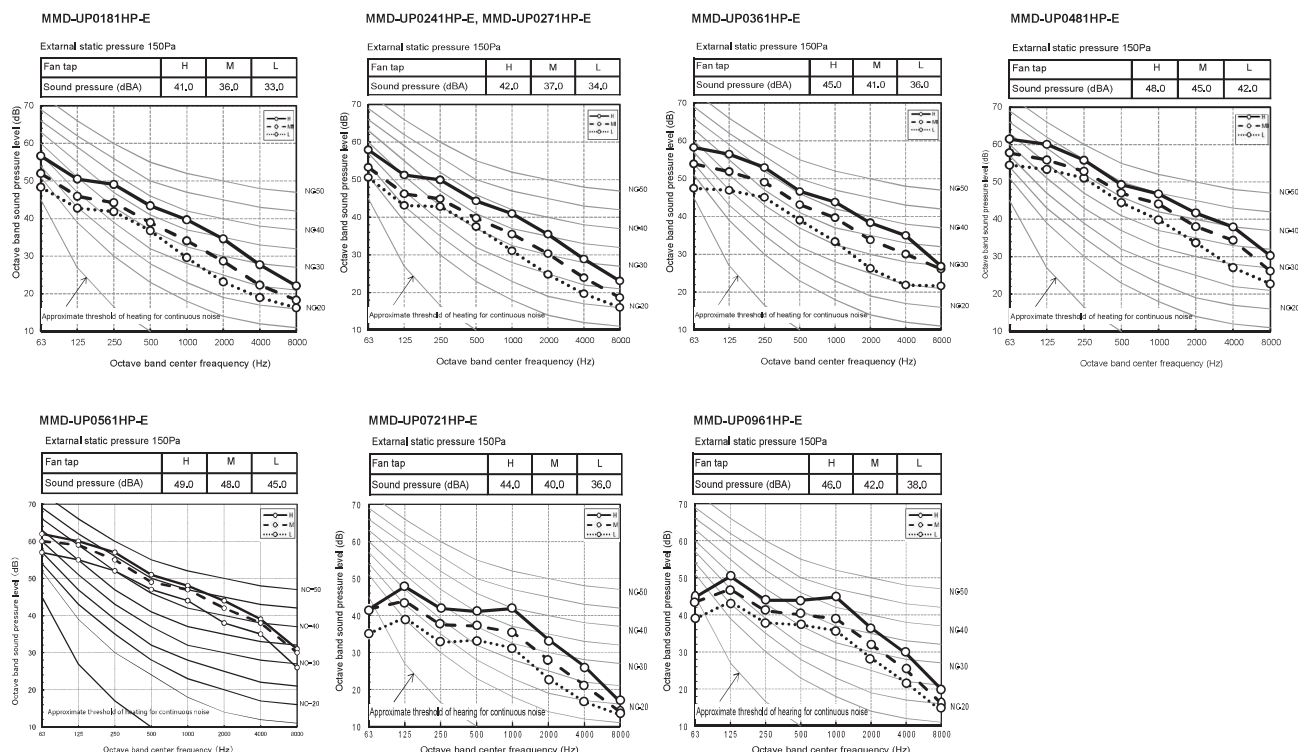


Unit : mm

IDU

Sound pressure levels

Unit : dB(A)



Accessories

Part name	Model name	Applied model	Appearance	Remarks
Spigot shaped flange	TCB-SF80C6BE	MMD-UP0181/0241/0271HP-E		263x994x175mm / Spigot diameter 200mm
	TCB-SF160C6BE	MMD-UP0361/0481/0561HP-E		263x1394x175mm / Spigot diameter 200mm
Long life filter kit	TCB-LK801D-E	MMD-UP0181/0241/0271HP-E		Flange shaped Mount chassis directly Upside down mounting possible Left and right removable
	TCB-LK1401D-E	MMD-UP0361/0481/0581HP-E		
	TCB-LK2801DP-E	MMD-UP0721/0961HP-E		
Auxiliary fresh air flange	TCB-FF151US-E	MMD-UP0181/0241/0271/0361/ 0481/0581HP-E		
Drain pump kit	TCB-DP40DPE	MMD-UP0721/0961HP-E		

HSP duct connectors

• : Available

	CN32	CN60	CN61	CN70	CN73	CN80
	Additional ventilation control from remote control	Operation status signal output (Cooling, heating, fan, defrost, thermo-on)	External On/Off, operation output and alarm output	Warning symbol on remote control based on signal input, o off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
Up to 6HP	•	•	•	•	•	•
8 & 10HP	•	TCB-PCUC2E pcb needed	•	TCB-PCUC2E pcb needed	TCB-PCUC2E pcb needed	TCB-PCUC2E pcb needed

MMD-UP_1HFP-E FRESH AIR INTAKE



This indoor unit has been specifically designed to manage and treat fresh air before its distribution into the building.

CAPACITY



5 HP ~ 14 HP

AIR FLOW



Up to 1,080m³/h ~ 3,060m³/h

SOUND PRESSURE LEVEL



31 dB(A)

LOCAL CONTROLS



RBC-AXU31-E

RBC-ASCU11-E
RBC-AMTU31-E
RBC-AMSU51-EN/ES

Features

Model name			MMD-	UP0481HFP-E	UP0721HFP-E	UP0961HFP-E	UP1121HFP-E	UP1281HFP-E
Cooling code			HP	5.0	8.0	10.0	12.0	14.0
Cooling capacity (*) (Note 1)			kW	14.0	22.4	28.0	33.5	40.0
Heating capacity (*) (Note 2)			kW	8.9	13.9	17.4	20.8	25.2
Electrical characteristics	Power supply		1-phase 50Hz 220-240V / 1-phase 60Hz 208-230V					
	Running current (50Hz/60Hz)		A	0.77/0.80	0.86/0.90	1.07/1.12	1.30/1.36	1.83/1.91
	Power consumption (50Hz/60Hz)		kW	0.108/0.108	0.153/0.153	0.198/0.198	0.240/0.240	0.330/0.330
	Starting current (50Hz/60Hz)		A	2.01/2.10	7.80/8.15	7.80/8.15	7.80/8.15	7.80/8.15
Dimensions (HxWxD)			mm	327x1430x750		477x1430x900		
Total weight			kg	44		99		
Heat exchanger				Finned tube				
Soundproof / Heat-insulating material				Non-flammable insulation				
Fan unit	Fan		Centrifugal fan					
	Standard air flow (H/M/L)		m³/h	1080/930/760	1680/1440/1200	2100/1800/1470	2520/2130/1770	3060/2580/2130
	Motor output		W	350	1000			
	External static pressure (Factory setting)		Pa	100				
	External static pressure		Pa	50-75-100-125-150-175-200 (7 Steps)				
	Air flow limit	Lower limit	m³/h	600	960	1320	1500	1800
		Upper limit	m³/h	1320	2040	2520	3060	3600
Sound pressure level (H/M/L)			dB(A)	38/35/31	38/36/33	39/36/33	40/37/34	42/38/35
Air filter				Option or field supply				
Controller (Optional)				Wired or infrared remote controller				
Connecting pipe	Gas / Liquid side		mm	15.9 / 9.5	22.2 / 12.7		28.6 / 12.7	28.6 / 12.7
	Drain port (nominal dia)		mm	25 (Polyvinyl chloride tube)				

* The setting temperature is 13~25°C (standard FCU), 18~30 °C.

* Height difference between Fresh Air Intake Indoor units must be within 5 m.

Note 1 : Rated conditions

Cooling : Outdoor air temperature 33°C DB/28°C WB setting temperature 18°C

Heating : Outdoor air temperature 0°C DB/2.8°C WB setting temperature 25°C

Note 2 : When supply air temperature is "setting temperature + 3°C" or less, Fresh Air Intake unit operates as FAN mode

Note 3 : When supply air temperature is "setting temperature - 3°C" or over, Fresh Air Intake unit operates as FAN mode

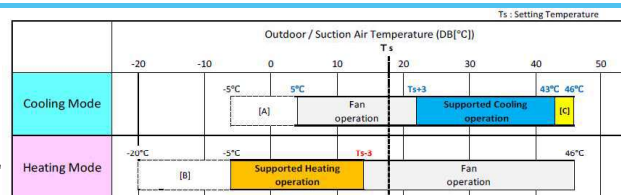
Note 4 : 45-52°C is also available but temporary operable

In case of connecting with SMMS-e for all Fresh Air Intake unit, it can use down to -5°C in heating mode

Use conditions

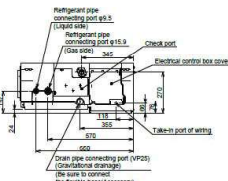
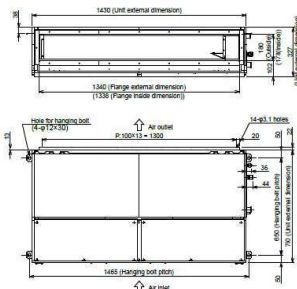
• In "COOL" or "FAN" mode, if temperature of the outdoor/suction air is under 5°C, the operation stops automatically in order to protect the equipment. In this case, continue the operating by selecting "HEAT" mode.

• In "HEAT" mode, if temperature of outdoor/suction air is under -5°C the operation stops automatically in order to protect the equipment. When operation the fresh intake unit with the outdoor/suction temperature under -5°C, make sure to -5°C using duct heater (locally procured).

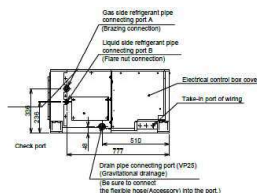
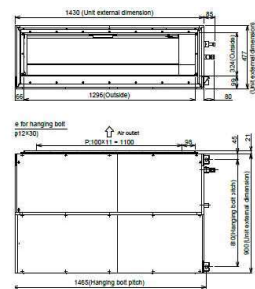


Drawings

MMD-UP0481HFP-E



MMD-UP0721HFP-E to MMD-UP1281HFP-E



FRESH AIR INTAKE

IDU

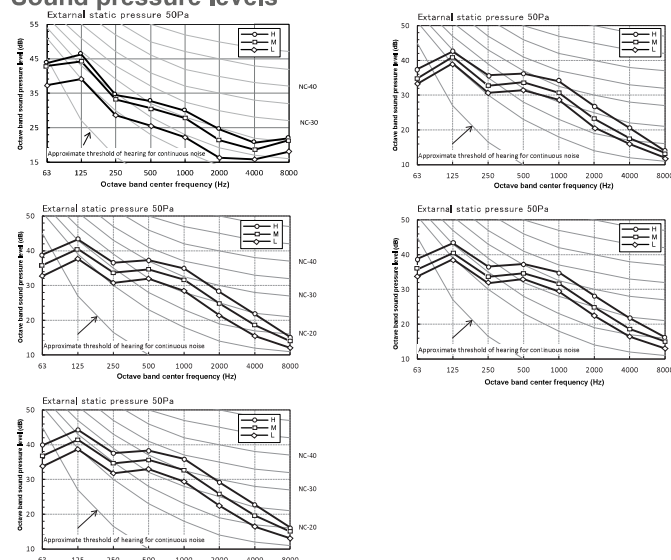
Fresh air intake indoor unit type

System restriction	SMMS-7 Multi FCU connection	SMMS-7 All fresh air intake connection	SMMS-u Multi FCU connection	SMMS-u All fresh air intake connection
Max. no. of combined outdoor units	3	1	5	2
Max. capacity of combined outdoor units	60HP	24HP	120HP	44HP
Maximum number of connected indoor units	64	3	128	4
Total capacity of combined Indoor+fresh air unit	80 to 110%	100%	80 to 110%	
Max. no. of combined Indoor units	3		4	

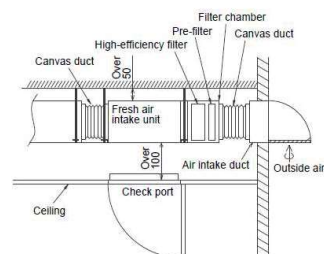
Allowable length and height difference of refrigerant piping			Allowable value (m)			
			SMMS-7 Multi FCU connection	SMMS-7 All fresh air intake connection	SMMS-u Multi FCU connection	SMMS-u All fresh air intake connection
Pipe length	Total extension of pipe (Liquid pipe)	Actual length	m	300/1000	300	500/1200
	Farthest piping length	Equivalent / Actual length	m	235/190	150/130	250/210
	Main piping length	Equivalent / Actual length	m	120/100	120/100	120/100
	Farthest equivalent piping length from the first branching section	Equivalent length	m	90/65	30	90
	Maximum actual length of pipes connected to indoor units	Actual length	m	30	30	30
	Maximum equivalent length between branching sections	Equivalent length	m	50	50	50
Height difference	Height between outdoor and indoor units	Upper / Lower outdoor unit	m	70/40	40/3	70/40
	Height between indoor units /fresh air intake units		m	0.5	0.5	40

Sound pressure levels

Unit: dB(A)



Other information



Accessories

Part name	Model name	Description	Applied model	Appearance
Air filtration	TCB-UFM0481D-E	High-efficiency filter 65	MMD-UP0481HF-E	
	TCB-UFM1281D-E	High-efficiency filter 65	MMD-UP0721HF-E to MMD-UP1281HF-E	
	TCB-UFH0481D-E	High-efficiency filter 90	MMD-UP0481HF-E	
	TCB-UFH1281D-E	High-efficiency filter 90	MMD-UP0721HF-E to MMD-UP1281HF-E	
	TCK-LK1401D-E	Stand alone long life prefilter	MMD-UP0481HF-E	
	TCK-LK2801DP-E	Stand alone long life prefilter	MMD-UP0721HF-E to MMD-UP1281HF-E	
	TCK-LK1401D-E (*2)	High efficiency long life prefilter	MMD-UP0481HF-E	
	TCK-PF1281DF-E	High efficiency long life prefilter	MMD-UP0721HF-E to MMD-UP1281HF-E	
	TCB-FC0481DF-E	Filter chamber	MMD-UP0481HF-E	
Drain pump kit	TCB-FC1281DF-E	Filter chamber	MMD-UP0721HF-E to MMD-UP1281HF-E	
	TCB-DP40DFP-E	Drain pump kit	All models	

Fresh air duct embedded connectors

* : Available

	CN32	CN60	CN61	CN70	CN73	CN80
	Additional ventilation control from remote control	Operation status signal output (Cooling, heating, fan, defrost, thermo-on)	External On/Off, operation output and alarm output	Warning symbol on remote control based on signal input, o off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
5HP	•	•	•	•	•	•
8 & 14HP	•	TCB-PCUC2E pcb needed	•	TCB-PCUC2E pcb needed	TCB-PCUC2E pcb needed	TCB-PCUC2E pcb needed



MMC-UP_1HP-E UNDER CEILING



The simple, yet elegant design helps to create a pleasant and relaxing environment, quickly conditioning the room air to the desired temperature.

CAPACITY
↑
1.7 HP ~ 6 HP

SOUND PRESSURE LEVEL
🔊
28 dB(A)

LOCAL CONTROLS



RBC-AXU31-E
RBC-AXU31C-E



RBC-ASCU11-E
RBC-AMTU31-E
RBC-AMSU51-EN/ES

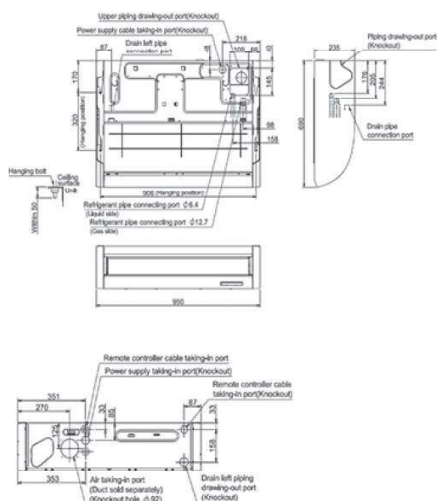
Features

Model name		MMC-	UP0151HP-E	UP0181HP-E	UP0241HP-E	UP0127HP-E	UP0361HP-E	UP0481HP-E	UP0561HP-E
Cooling code		HP	1.7	2.0	2.5	3.0	4.0	5.0	6.0
Cooling capacity		kW	4.5	5.6	7.1	8.0	11.2	14.0	16.0
Heating capacity		kW	5.0	6.3	8.0	9.0	12.5	16.0	18.0
Electrical characteristics	Power supply		1 phase 50Hz 230V (220-240V) / 1 phase 60Hz 220V						
	Running current (50Hz/60Hz) A		0.35/0.37	0.36/0.38	0.64/0.67	0.65/0.67	0.77/0.80	0.77/0.80	0.99/1.02
	Power consumption (50Hz/60Hz) kW		0.033/0.033	0.034/0.034	0.067/0.067	0.067/0.067	0.083/0.083	0.083/0.083	0.111/0.111
	Starting current (50Hz/60Hz) A		0.54/0.55	0.55/0.57	0.96/1.00	0.97/1.00	1.15/1.20	1.15/1.20	1.49/1.43
Appearance			Pure White (Munsell N9.1)						
Dimensions (HxWxD)		mm	235x950x690		235x1270x690		235x1586x690		
Total weight		kg	24		30		39		
Heat exchanger			Finned tube						
Soundproof / Heat-insulating material			Polyethylene foam						
Fan unit	Fan		Centrifugal fan (Sirocco fan)						
	Standard air flow (H/M/L) m³/h		840/690/540	960/720/540	1440/1020/750	1440/1020/750	1860/1350/1020	1860/1530/1200	2040/1650/1260
	Motor output W		94				139		
Sound pressure level (H/M/L)		dB(A)	36/34/28	37/35/28	41/36/29	41/36/29	44/38/32	44/41/35	46/42/36
Sound power level		dB(A)	51	52	56	56	59	59	61
Air filter			Standard filter supplied (Long life filter)						
Controller (Optional)			Wired or infrared remote controller						
Conecting pipe	Gas side mm		12.7	12.7	15.9	15.9	15.9	15.9	15.9
	Liquid side mm		6.4	6.4	9.5	9.5	9.5	9.5	9.5
	Drain port (nominal dia) mm		20 (Polyvinyl chloride tube)						

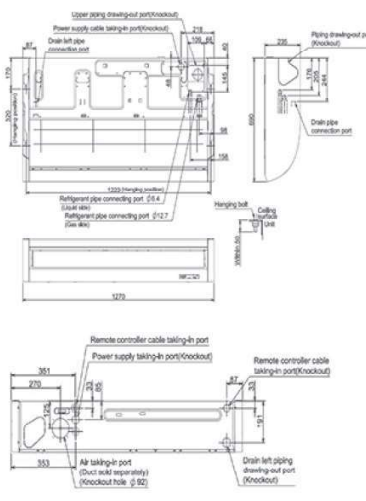
Drawings

Unit : mm

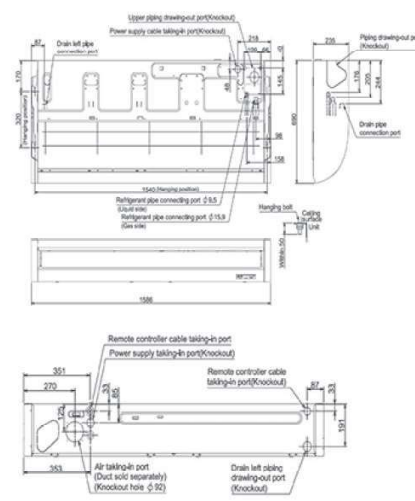
MMC-UP0151HP-E, MMC-UP0181HP-E



MMC-UP0241HP-E, MMC-UP0271HP-E



MMC-UP0361HP-E to MMC-UP0561HP-E

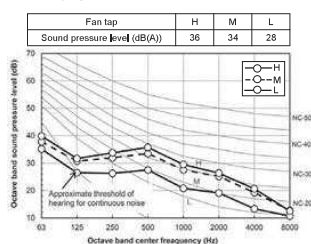


UNDER CEILING

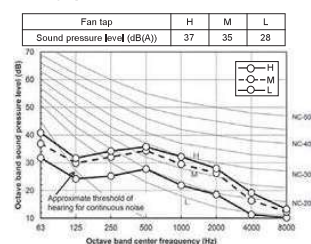
Sound pressure levels

Unit : dB(A)

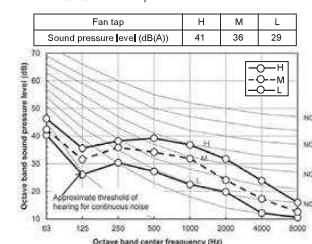
MMC-UP0151HP-E



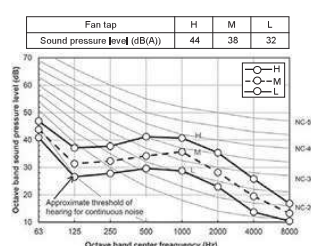
MMC-UP0181HP-E



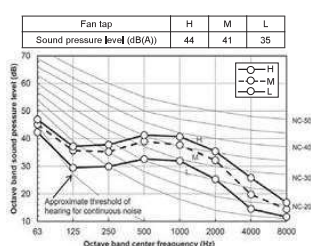
MMC-UP0241, 0271HP-E



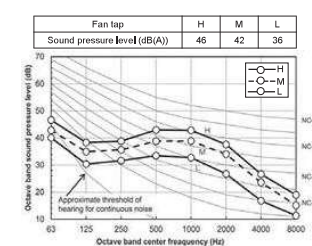
MMC-UP0361HP-E



MMC-UP0481HP-E



MMC-UP0561HP-E

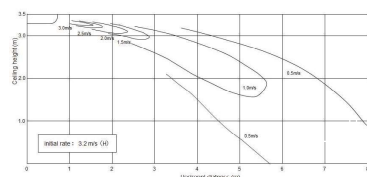


Air diffusion

Unit : m/s

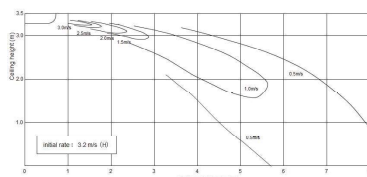
MMC-UP0151HP-E

Cooling



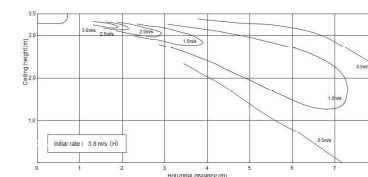
MMC-UP0181HP-E

Cooling



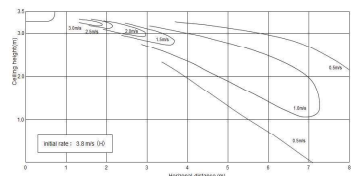
MMC-UP0241, 0271HP-E

Cooling



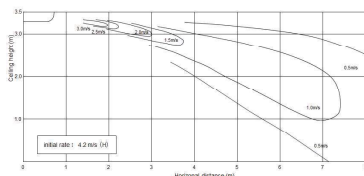
MMC-UP0361, 0481HP-E

Cooling



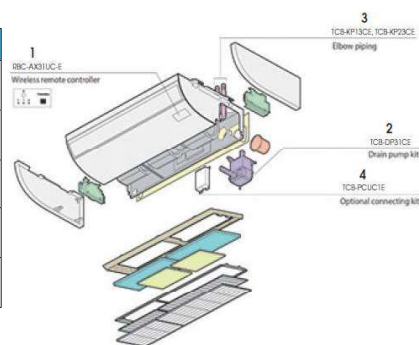
MMC-UP0561HP-E

Cooling



Accessories

No.	Part name	Model name	Applied model	Notes	Remarks
1	Wireless Remote Controller kit	RBC-AXU31C-E	MMC-UP_1HP-E		
2	Drain pump kit	TCB-DP31CE		Antibacterial glass is built into drain pump kit	
3	Elbow piping kit	TCB-KP14CPE TCB-KP24CPE		It is necessary for installation of drain pump kit	Use with TCB-DP31CE
4	Option connecting kit	TCB-PCUC2E		For external I/O signal without local relay preparation	



Ceiling connectors

• Available

CN32	CN60	CN61	CN70	CN73	CN80
Additional ventilation control from remote control	Operation status signal output (Cooling, heating, fan, defrost, thermo-on)	External On/Off, operation output and alarm output	Warning symbol on remote control based on signal input.o off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
•	TCB-PCUC2E pcb needed	•	TCB-PCUC2E pcb needed	TCB-PCUC2E pcb needed	TCB-PCUC2E pcb needed



Particularly compact, this high-wall is perfect for limited spaces, such as offices or small shops.

CAPACITY



0,8 HP ~ 4 HP

SOUND PRESSURE LEVEL



25 dB(A)

LOCAL CONTROLS



Included

RBC-AMTU31-E
RBC-AMTU31-E
RBC-AMTU31-E

Features

Model name		MMK-	UP0071HP-E	UP0091HP-E	UP0121HP-E	UP0151HP-E	UP0181HP-E	UP0241HP-E	UP0271HP-E	UP0301HP-E	UP0361HP-E
Cooling code		HP	0.8	1.0	1.25	1.7	2.0	2.5	3.0	3.2	4.0
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2
Heating capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0	9.0	10.0	12.5
Electrical characteristics	Power supply		1 phase 50Hz 230V (220-240V) / 1 phase 60Hz 220V								
	Running current (50Hz/60Hz)	A	0.15/0.16	0.16/0.17	0.17/0.18	0.25/0.26	0.28/0.29	0.40/0.42	0.28/0.30	0.44/0.46	0.52/0.56
	Power consumption (50Hz/60Hz)	kW	0.015/0.015	0.016/0.016	0.017/0.017	0.028/0.028	0.032/0.032	0.050/0.050	0.034/0.034	0.054/0.054	0.066/0.066
	Starting current (50Hz/60Hz)	A	0.19/0.20	0.20/0.21	0.21/0.22	0.33/0.35	0.36/0.38	0.48/0.50	0.34/0.34	0.50/0.50	0.60/0.60
Dimensions (HxWxD)		mm	293x798x230			320x1050x250			348x1200x280		
Total weight		kg	11			16			21		
Heat exchanger		Finned tube									
Soundproof / Heat-insulating material		Non-flammable insulation									
Fan unit	Fan		Cross Flow Fan								
	Standard air flow (H/M/L)	m³/h	480/385/270	510/395/270	540/410/270	840/690/550	900/720/550	1200/900/600	1200/1000/800	1500/1300/1100	1650/1350/1250
Sound pressure level (H/M/L)		dB(A)	35/30/25	36/31/25	37/32/25	40/36/32	41/37/32	45/39/33	44/41/39	48/44/41	50/45/43
Sound power level		dB(A)	50	51	52	55	56	60	60	63	65
Air filter		Standard filter supplied (Long life filter)									
Controller (Packed with unit)		Wireless remote controller									
Conecting pipe	Gas side	mm	12.7	12.7	12.7	12.7	12.7	15.9	15.9	15.9	15.9
	Liquid side	mm	6.4	6.4	6.4	6.4	6.4	9.5	9.5	9.5	9.5
	Drain port (nominal dia)	mm	16 (Polyvinyl chloride tube)								

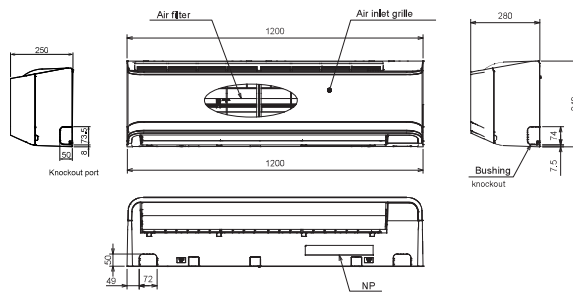
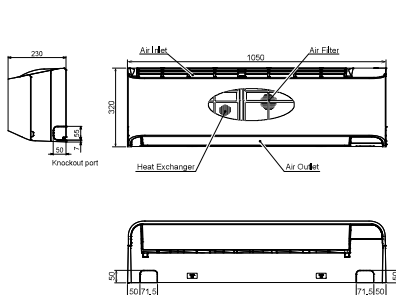
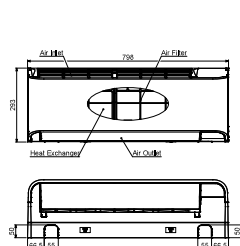
Drawings

Unit : mm

MMK-UP0071HP-E to MMK-UP0121HP-E

MMK-UP0151HP-E to MMU-UP0241HP-E

MMK-UP0271HP-E to MMU-UP0361HP-E

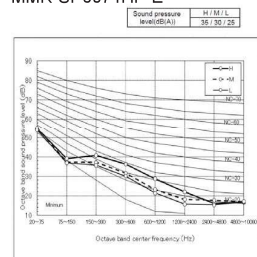


HIGH-WALL

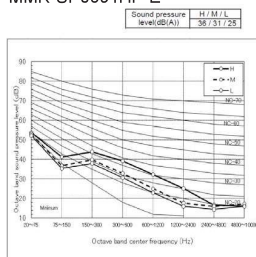
Sound pressure levels

Unit : dB(A)

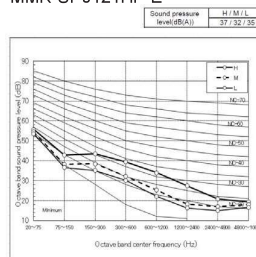
MMK-UP0071HP-E



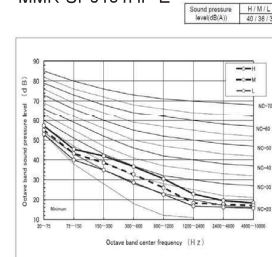
MMK-UP0091HP-E



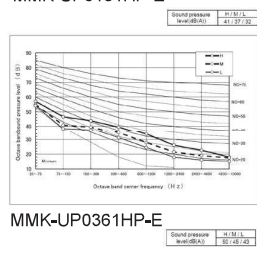
MMK-UP0121HP-E



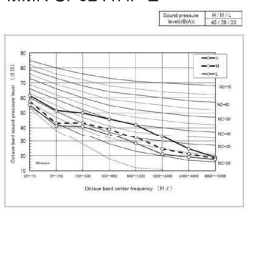
MMK-UP0151HP-E



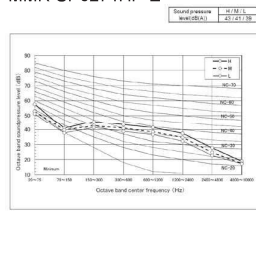
MMK-UP0181HP-E



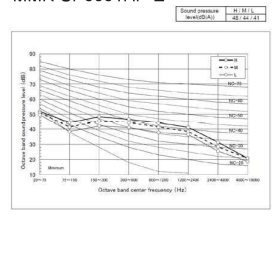
MMK-UP0241HP-E



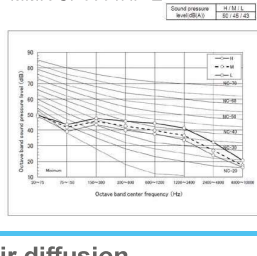
MMK-UP0271HP-E



MMK-UP0301HP-E



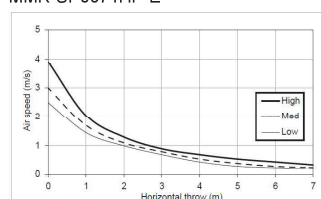
MMK-UP0361HP-E



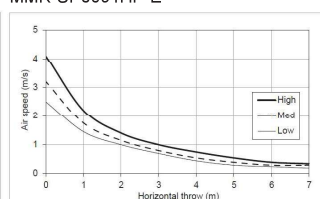
Air diffusion

Unit : m/s

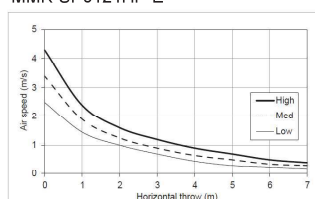
MMK-UP0071HP-E High wind: 3.9m/s
Mid wind: 3.0m/s
Low wind: 2.5m/s



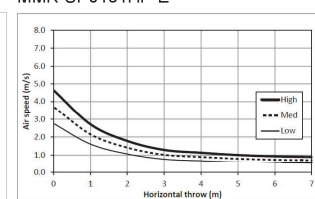
MMK-UP0091HP-E High wind: 4.1m/s
Mid wind: 3.2m/s
Low wind: 2.5m/s



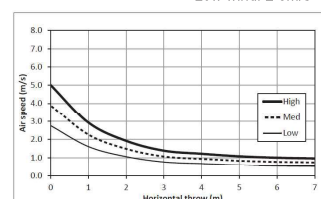
MMK-UP0121HP-E High wind: 4.3m/s
Mid wind: 3.4m/s
Low wind: 2.5m/s



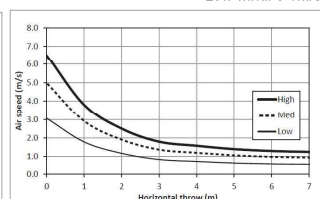
MMK-UP0151HP-E High wind: 4.6m/s
Mid wind: 3.7m/s
Low wind: 2.8m/s



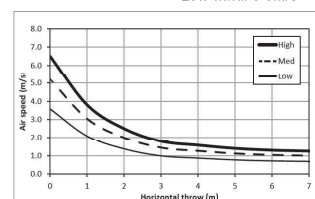
MMK-UP0181HP-E High wind: 5.0m/s
Mid wind: 3.9m/s
Low wind: 2.8m/s



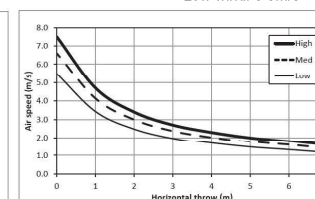
MMK-UP0241HP-E High wind: 6.5m/s
Mid wind: 5.0m/s
Low wind: 3.1m/s



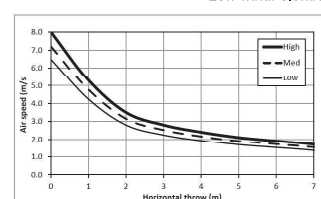
MMK-UP0271HP-E High wind: 6.5m/s
Mid wind: 5.2m/s
Low wind: 3.6m/s



MMK-UP0301HP-E High wind: 7.5m/s
Mid wind: 6.6m/s
Low wind: 5.5m/s



MMK-UP0361HP-E High wind: 8.0m/s
Mid wind: 7.2m/s
Low wind: 6.5m/s



High wall embedded connectors

* : Available

CN32	CN60	CN61	CN70	CN73	CN80
Additional ventilation control from remote control	Operation status signal output (Cooling, heating, fan, defrost, thermo-on)	External On/Off, operation output and alarm output	Warning symbol on remote control based on signal input o. off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
*	*	*	*	*	*



MML-UP_1NHP-E BI-FLOW CONSOLE



Innovative and compact unit to be installed on the floor and in low wall applications, fits perfectly under the window sills or in a low ceiling attic.

CAPACITY
↑↑
0,8 HP ~ 2 HP

SOUND PRESSURE LEVEL
26 dB(A)

LOCAL CONTROLS



Included



RBC-ASCU11-E
RBC-AMTU31-E
RBC-AMSU51-EN/ES

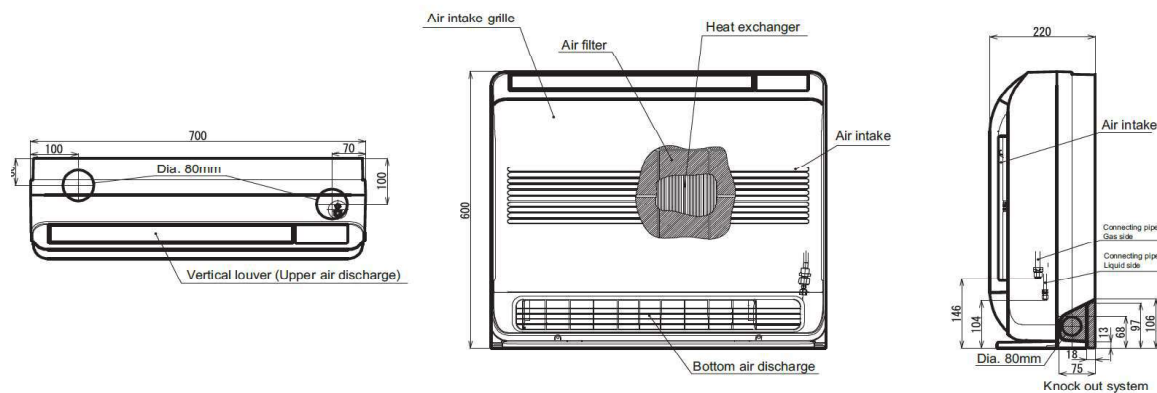
Features

Model name		MML-	UP0071NHP-E	UP0091NHP-E	UP0121NHP-E	UP0151NHP-E	UP0181NHP-E
Cooling code		HP	0.8	1.0	1.25	1.7	2.0
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6
Heating capacity		kW	2.5	3.2	4.0	5.0	6.3
Electrical characteristics	Power supply		1 phase 50Hz 230V (220-240V) / 1 phase 60Hz 220V				
	Running current (50Hz/60Hz)	A	0.20/0.17	0.20/0.17	0.23/0.19	0.29/0.25	0.42/0.36
	Power consumption (50Hz/60Hz)	kW	0.021/0.021	0.021/0.021	0.025/0.025	0.034/0.034	0.052/0.052
	Starting current (50Hz/60Hz)	A	0.26/0.22	0.26/0.22	0.30/0.30	0.33/0.38	0.55/0.55
Appearance	Air intake grille and side panel		Moon white (Munsell : 2.5GY 9.0/0.5)				
	Discharge-grille		Moon white (Munsell : 2.5GY 9.0/0.5)				
	Bottom surface		Moon white (Munsell : 2.5GY 9.0/0.5)				
Dimensions (HxWxD)		mm	600x700x220				
Total weight		kg	17				
Heat exchanger			Finned tube				
Soundproof / Heat-insulating material			Foamed polystyrene / Polyethylene				
Fan unit	Fan		Turbo fan				
	Standard air flow (H/M/L)	m³/h	510/366/282	510/366/282	552/408/324	624/468/384	726/528/426
	Motor output	W	41				
Sound pressure level (H/M/L)		dB(A)	38/32/26	38/32/26	40/34/29	43/37/31	47/40/34
Sound power level		dB(A)	53	53	55	58	62
Air filter			Standard filter supplied (Long life filter)				
Controller (Packed with indoor unit)			Wireless remote controller				
Conecting pipe	Gas side	mm	9.5	9.5	9.5	12.7	12.7
	Liquid side	mm	6.4	6.4	6.4	6.4	6.4
	Drain port (nominal dia)	mm	16 (Polypropylene tube)				

Drawings

All model

Unit : mm



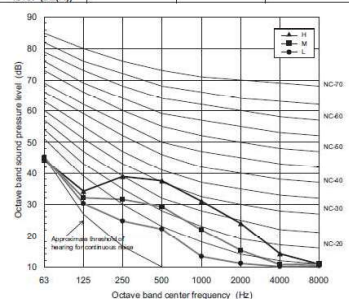
BI-FLOW CONSOLE

Sound pressure levels

Unit : dB(A)

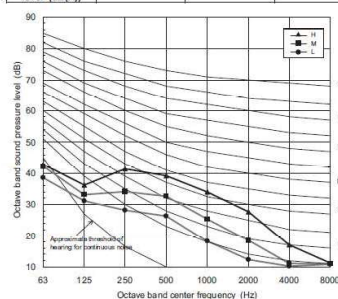
MML-UP0071, 0091NH-E

Fan tap	H	M	L
Sound pressure level (dB(A))	38	32	26



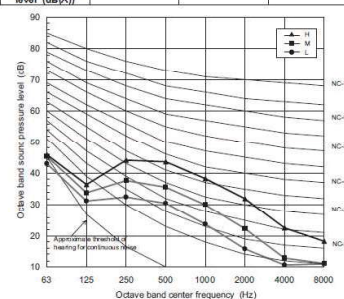
MML-UP0121NH-E

Fan tap	H	M	L
Sound pressure level (dB(A))	40	34	29



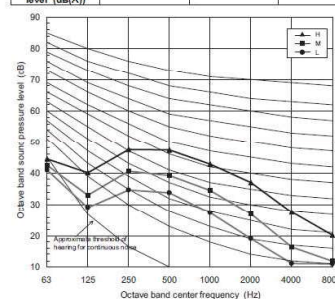
MML-UP0151NH-E

Fan tap	H	M	L
Sound pressure level (dB(A))	43	37	31



MML-UP0181NH-E

Fan tap	H	M	L
Sound pressure level (dB(A))	47	40	34

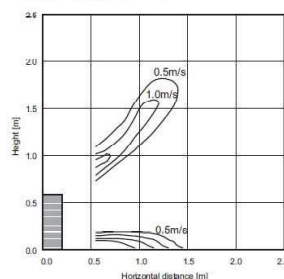


Air diffusion

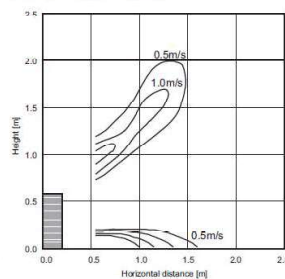
Unit : m/s

MML-UP0071NH-E, UP0091NH-E

Cooling - Upper & Lower

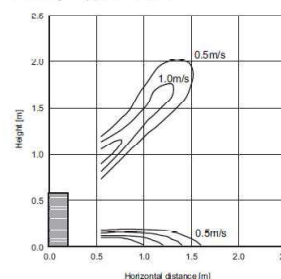


Heating - Upper & Lower

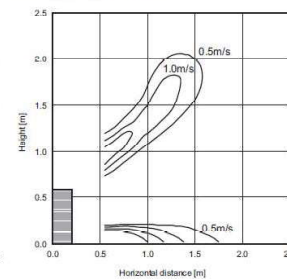


MML-UP0121NH-E

Cooling - Upper & Lower

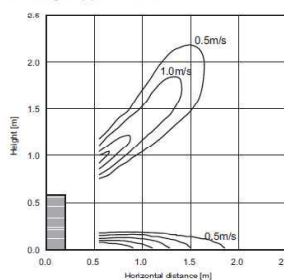


Heating - Upper & Lower

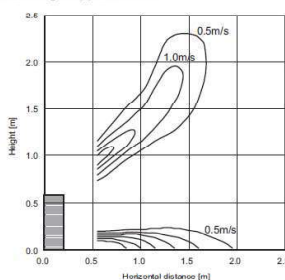


MML-UP0151NH-E

Cooling - Upper & Lower

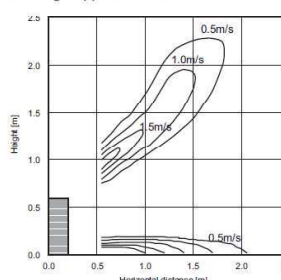


Heating - Upper & Lower

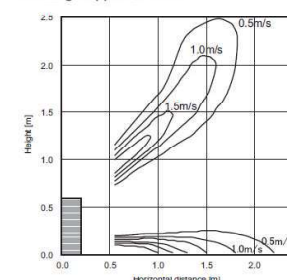


MML-UP0181NH-E

Cooling - Upper & Lower



Heating - Upper & Lower

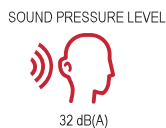


Bi-flow console connectors

• Available

CN32	CN60	CN61	CN70	CN73	CN80
Additional ventilation control from remote control	Operation status signal output (Cooling, heating, fan, defrost, thermo-on)	External On/Off, operation output and alarm output	Warning symbol on remote control based on signal input.o off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
•	•	•	•	•	•

LOCAL CONTROLS



RBC-AXU31-E

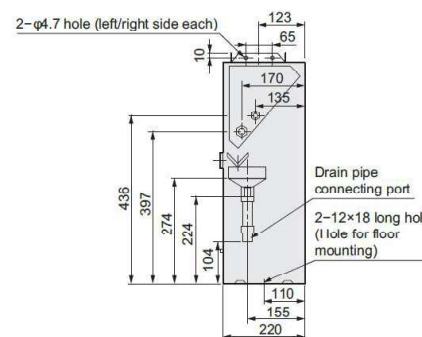
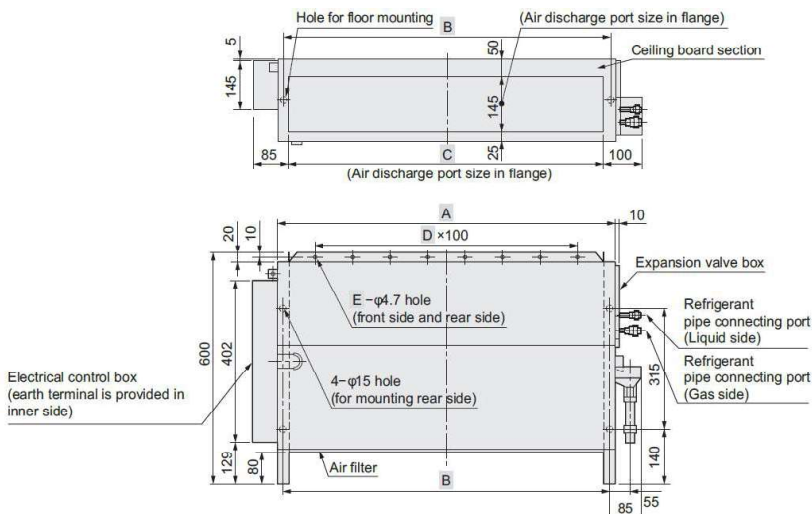


RBC-ASCU11-E
RBC-AMTU31-E
RBC-AMSU51-EN/ES

Model name		MML-	UP0071BH-E	UP0091BH-E	UP0121BH-E	UP0151BH-E	UP0181BH-E	UP0241BH-E
Cooling code		HP	0.8	1.0	1.25	1.7	2.0	2.5
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0
Electrical characteristics	Power supply		1 phase 50Hz 230V (220-240V) / 1 phase 60Hz 220V					
	Running current (50Hz/60Hz) A		0.25/0.27			0.45/0.46		0.46/0.51
	Power consumption (50Hz/60Hz) kW		0.056/0.058			0.090/0.096		0.095/0.110
	Starting current (50Hz/60Hz) A		0.60/0.60			0.80/0.80		1.00/1.00
Appearance		Zinc hot dipping steel plate						
Dimensions (HxWxD)		mm	600x745x220			600x1045x220		
Total weight		kg	21			28		
Heat exchanger		Finned tube						
Soundproof / Heat-insulating material		Non-flammable insulation						
Fan unit	Fan		Centrifugal fan					
	Standard air flow (H/M/L) m³/h		460/400/300			740/600/490		950/790/640
	Motor output W		19			70		
Sound pressure level (H/M/L)		dB(A)	36/34/32					42/37/33
Sound power level		dB(A)	54					60
Air filter		Standard filter supplied (Simple filter)						
Controller (Optional)		Wired or infrared remote controller						
Conecting pipe	Gas side mm		9.5	9.5	9.5	12.7	12.7	15.9
	Liquid side mm		6.4	6.4	6.4	6.4	6.4	9.5
	Drain port (nominal dia) mm		20 (Polyvinyl chloride tube)					

Unit : mm

All model



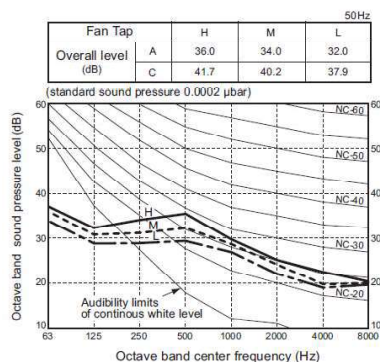
Model MML-	A	B	C	D	E
UP0071BH-E to UP0121BH-E	610	580	550	4	5
UP0151BH-E to UP0241BH-E	910	880	850	7	8

CONCEALED

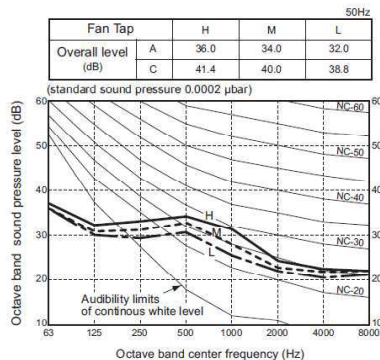
Sound pressure levels

Unit : dB(A)

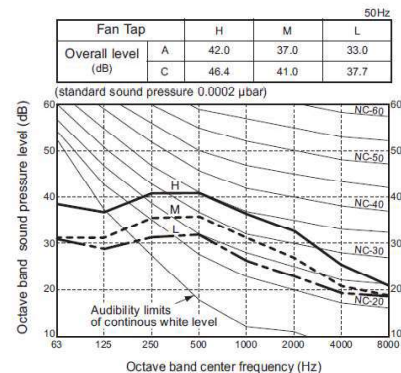
MML-UP0071BH-E to MML-UP0121BH-E



MML-UP0151BH-E, MML-UP181BH-E



MML-UP241BH-E



IDU

Concealed chassis embedded connectors

• Available

CN32	CN60	CN61	CN70	CN73	CN80
Additional ventilation control from remote control	Operation status signal output (Cooling, heating, fan, defrost, thermo-on)	External On/Off, operation output and alarm output	Warning symbol on remote control based on signal input.o off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
•	•	•	•	•	•



MML-UP_1H-E CABINET



The simple design of this unit represents the perfect choice, for refurbishment projects, where the available space is limited, or where neither the walls nor ceiling are able to house the unit.

CAPACITY



0,8 HP ~ 2,5 HP

SOUND PRESSURE LEVEL



35 dB(A)

LOCAL CONTROLS



RBC-AXU31-E



RBC-ASCU11-E
RBC-AMT031-E
RBC-AMSU51-EN/ES

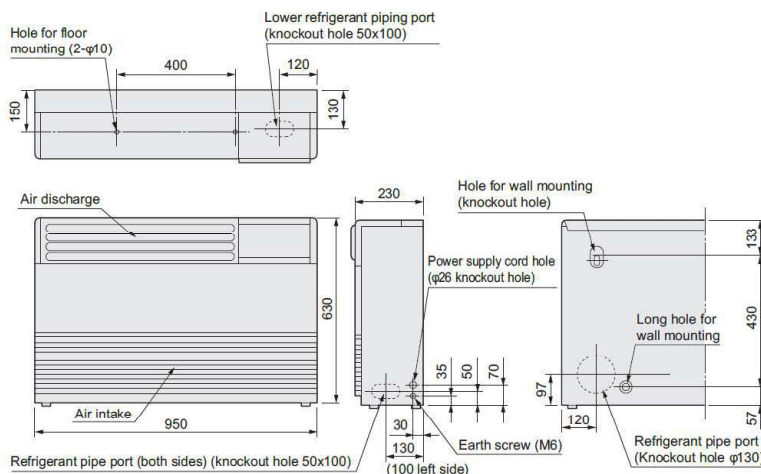
Features

Model name			MML-	UP0071H-E	UP0091H-E	UP0121H-E	UP0151H-E	UP0181H-E	UP0241H-E
Cooling code			HP	0.8	1.0	1.25	1.7	2.0	2.5
Cooling capacity			kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity			kW	2.5	3.2	4.0	5.0	6.3	8.0
Electrical characteristics	Power supply		1 phase 50Hz 230V (220-240V) / 1 phase 60Hz 220V						
	Running current (50Hz/60Hz)	A	0.26/0.25			0.43/0.44		0.47/0.53	
	Power consumption (50Hz/60Hz)	kW	0.056/0.044			0.092/0.069		0.102/0.076	
	Starting current (50Hz/60Hz)	A	0.60/0.60			0.80/0.80		1.10/1.10	
Appearance			Silky shade (1Y8.5/0.5)						
Dimensions (HxWxD)			mm	630x950x230					
Total weight			kg	35				38	
Heat exchanger			Finned tube						
Soundproof / Heat-insulating material			Non-flammable insulation						
Fan unit	Fan		Centrifugal fan						
	Standard air flow (H/M/L)	m³/h	480/420/360			900/780/650		1080/930/780	
	Motor output	W	45				70		
Sound pressure level (H/M/L)			dB(A)	39/37/35			45/41/38		49/44/39
Sound power level			dB(A)	54			60		64
Air filter			Standard filter supplied (Simple filter)						
Controller (Optional)			Wired or infrared remote controller						
Conecting pipe	Gas side	mm	9.5	9.5	9.5	12.7	12.7	15.9	
	Liquid side	mm	6.4	6.4	6.4	6.4	6.4	9.5	
	Drain port (nominal dia)	mm	20 (Polyvinyl chloride tube)						

Drawings

Unit : mm

All model



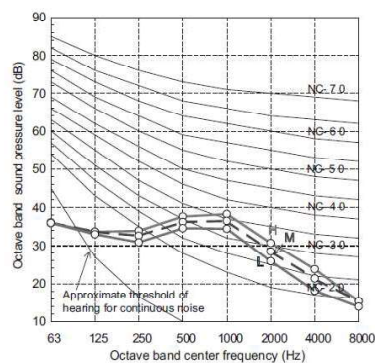
CABINET

Sound pressure levels

Unit : dB(A)

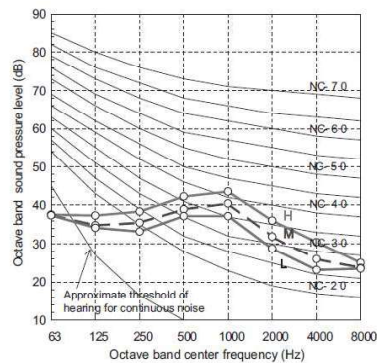
MML-UP0071H-E, MML-UP0091H-E

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



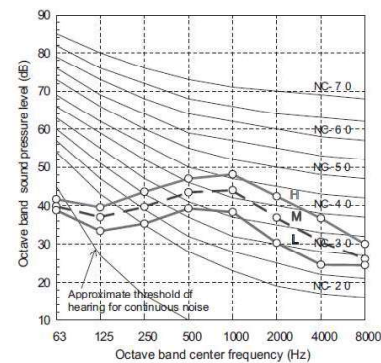
MML-UP0121H-E, MML-UP151H-E

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



MML-UP0181H-E, MML-UP241H-E

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

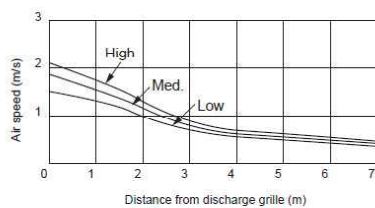


IDU

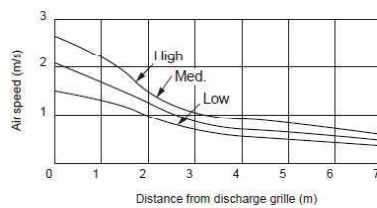
Air diffusion

Unit : m/s

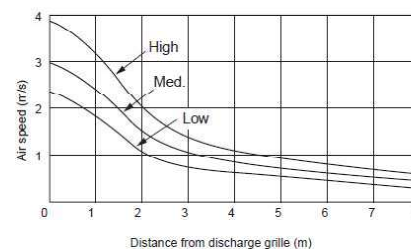
MML-UP0071H-E, MML-UP0091H-E



MML-UP0121H-E, MML-UP151H-E



MML-UP0181H-E, MML-UP241H-E



Console connectors

• : Available

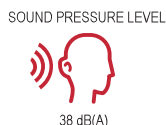
CN32	CN60	CN61	CN70	CN73	CN80
Additional ventilation control from remote control	Operation status signal output (Cooling, heating, fan, defrost, thermo-on)	External On/Off, operation output and alarm output	Warning symbol on remote control based on signal input, o off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
•	•	•	•	•	•



MMF-UP_1H-E
FLOOR STANDING



This system is particularly suitable to large rooms air condition like shops, showrooms and with low ceilings like restaurants.



LOCAL CONTROLS



RBC-AXU31-E

RBC-ASCU11-E
RBC-AMTU31-E
RBC-AMSU51-EN/ES

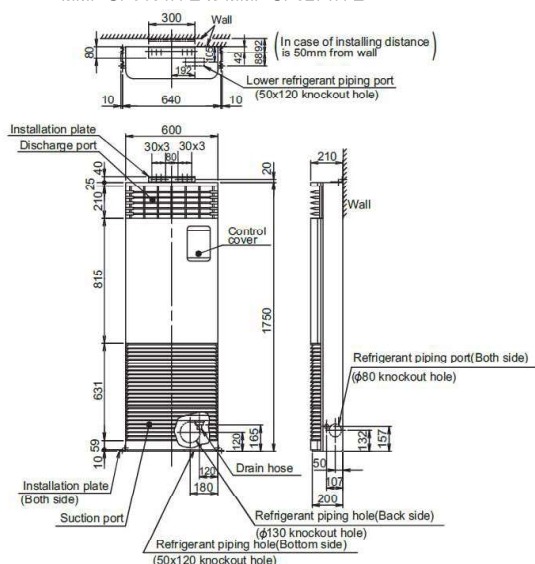
Features

Model name		MMF-	UP0151H-E	UP0181H-E	UP0241H-E	UP0271H-E	UP0361H-E	UP0481H-E	UP0561H-E
Cooling code		HP	1.7	2.0	2.5	3.0	4.0	5.0	6.0
Cooling capacity		kW	4.5	5.6	7.1	8.0	11.2	14.0	16.0
Heating capacity		kW	5.0	6.3	8.0	9.0	12.5	16.0	18.0
Electrical characteristics	Power supply		1 phase 50Hz 230V (220-240V) / 1 phase 60Hz 220V						
	Running current (50Hz/60Hz) A		0.37/0.38		0.55/0.58		0.82/0.86	0.97/1.02	
	Power consumption (50Hz/60Hz) kW		0.053/0.053		0.087/0.087		0.133/0.133	0.158/0.158	
	Starting current (50Hz/60Hz) 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)						
Dimensions (HxWxD)		mm	1750x600x210				1750x600x390		
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/L) m³/h		820/700/600		930/770/640		1660/1420/1170	1760/1480/1350	
	Motor output W		62				109		
Sound pressure level (H/M/L) dB(A)			46/42/38		50/45/41		51/46/41	53/48/45	
Sound power level dB(A)			64		67		69	72	
Air filter			Standard filter supplied (Simple filter)						
Controller (Optional)			Wired or infrared remote controller						
Conecting pipe	Gas side mm		12.7	12.7	12.7	12.7	12.7	12.7	12.7
	Liquid side mm		6.4	6.4	6.4	9.5	9.5	9.5	9.5
	Drain port (nominal dia) mm		20 (Polyvinyl chloride tube)						

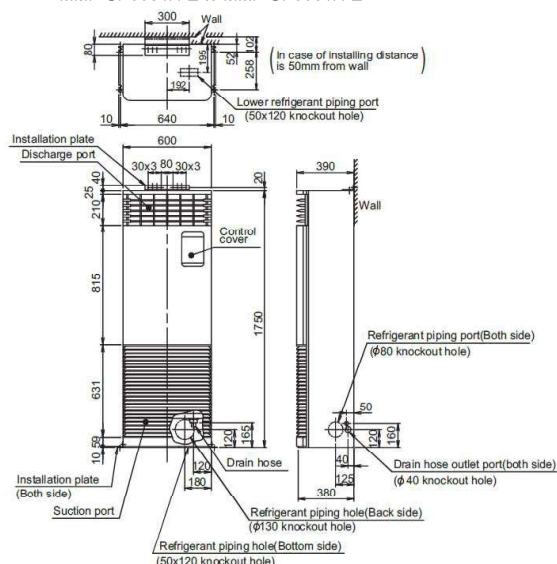
Drawings

Unit : mm

MMF-UP0151H-E to MMF-UP0271H-E



MMF-UP0361H-E to MMF-UP0561H-E

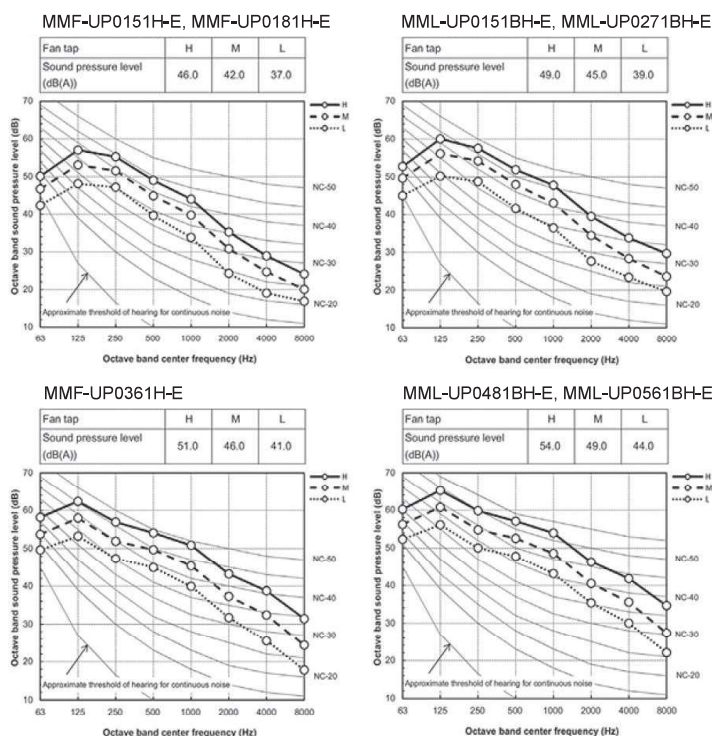


FLOOR STANDING

Sound pressure levels

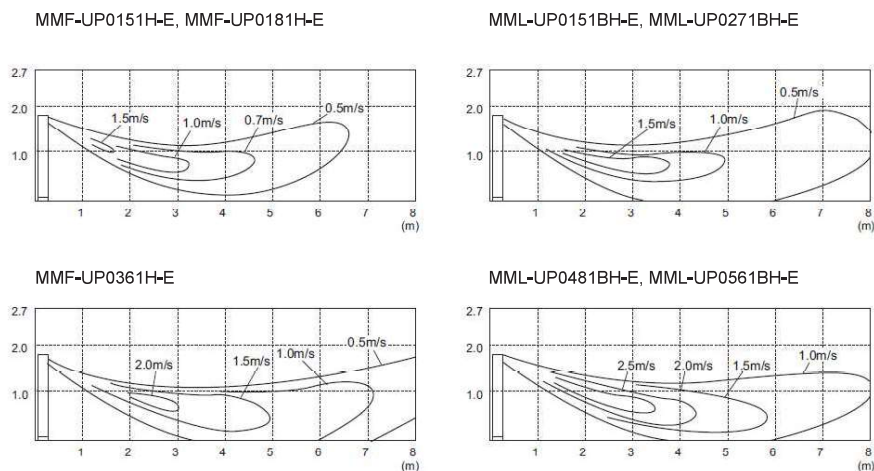
Unit : dB(A)

IDU



Air diffusion

Unit : m/s



Floor standing embedded connectors

• : Available

CN32	CN60	CN61	CN70	CN73	CN80
Additional ventilation control from remote control	Operation status signal output (Cooling, heating, fan, defrost, thermo-on)	External On/Off, operation output and alarm output	Warning symbol on remote control based on signal input.o off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
•	TCB-PCUC2E pcb needed	•	TCB-PCUC2E pcb needed	TCB-PCUC2E pcb needed	TCB-PCUC2E pcb needed



MMF-AP_5(D)HP-VA/VB LARGE CAPACITY FLOOR STANDING



This system is particularly suitable to large rooms air condition like warehouse, factory and shopping mall.

CAPACITY



8 HP ~ 20 HP

AIR FLOW



Up to 3,600m³/h ~ 8,400m³/h

SOUND PRESSURE LEVEL



59 dB(A)

LOCAL CONTROLS



RBC-AXU31-E



RBC-AMTU31-E
RBC-AMSU51-EN/ES

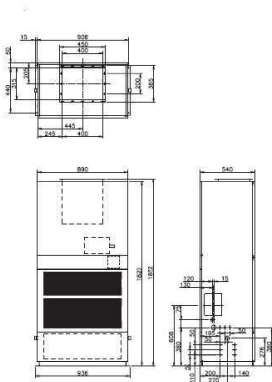
Features

Model name			MMF-	Ducted Type				Direct Blow Type			
				AP0725DHP-VA	AP0965DHP-VA	AP1445DHP-VA	AP1925DHP-VA	AP0725HP-VA	AP0965HP-VA	AP1445HP-VA	AP1925HP-VA
				AP0725DHP-VB	AP0965DHP-VB	AP1445DHP-VB	AP1925DHP-VB	AP0725HP-VB	AP0965HP-VB	AP1445HP-VB	AP1925HP-VB
Cooling code			HP	8	10	16	20	8	10	16	20
Cooling capacity			kW	22.4	28.0	45.0	56.0	22.4	28.0	45.0	56.0
Heating capacity			kW	25.0	31.5	50.0	63.0	25.0	31.5	50.0	63.0
Electrical characteristics	Power supply		VA: 3 phase 50Hz 380~415V / VB: 3 phase 60Hz 380V								
	Running current (50Hz/60Hz)		A	1.68/1.69	2.85/2.74	4.26/4.16	5.67/5.18	1.42/1.29	2.27/1.94	2.91/2.54	3.77/3.49
	Power consumption (50Hz/60Hz)		kW	0.83/0.93	1.35/1.48	2.30/2.41	2.67/2.80	0.62/0.67	0.80/0.86	1.28/1.31	1.96/1.98
	Starting current (50Hz/60Hz)		A	9.4/8.2	19.6/17.7	31.5/27.0	45.6/42.0	9.4/8.2	19.6/17.7	31.5/27.0	31.5/27.0
Appearance			Cream (5Y 7/1.5)								
Dimensions (HxWxD)			mm	1820x890x540		1870x1300x760		2130x890x540		2280x1300x760	
Total weight			kg	150	155	280	290	170	175	320	
Heat exchanger			Copper tubes, Aluminum plate fins								
Soundproof / Heat-insulating material			Polyolefin form								
Fan unit	Fan		Multi blades centrifugal; Belt drive								
	Standard air flow		m³/h	3600	4500	7200	8400	3600	4200	7200	8400
	Air flow limit (Lower/Upper)		m³/h	2880/4320	3360/5040	5760/8640	6720/10080	2880/4320	3360/5040	5760/8640	6720/10080
	External static pressure		Pa	200	300	300	300	-	-	-	-
Sound pressure level			dB(A)	59	64	66	68	60	64	63	66
Air filter			Standard filter supplied (Simple filter)								
Controller (Optional)			Remote controller								
Conecting pipe	Gas side		mm	22.2		28.6		22.2		28.6	
	Liquid side		mm	12.7		15.9		12.7		15.9	
	Drain port (nominal dia)		mm	25 (Both sides of male screw)							

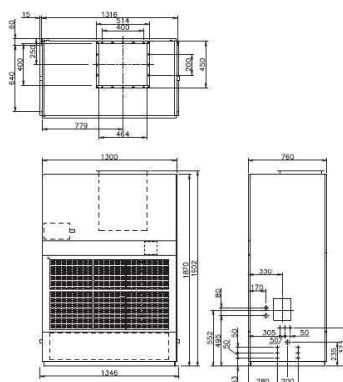
Drawings

Unit : mm

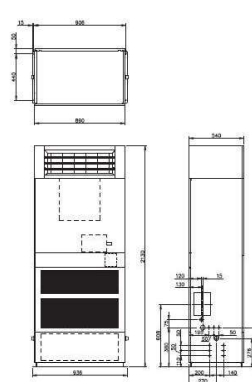
MMF-AP0725DHP-VA/VB,
MMF-AP0965DHP-VA/VB



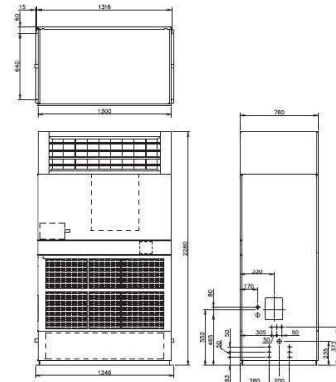
MMF-AP1445DHP-VA/VB,
MMF-AP1925DHP-VA/VB



MMF-AP0725HP-VA/VB,
MMF-AP0965HP-VA/VB



MMF-AP1445HP-VA/VB,
MMF-AP1925HP-VA/VB



LARGE CAPACITY FLOOR STANDING

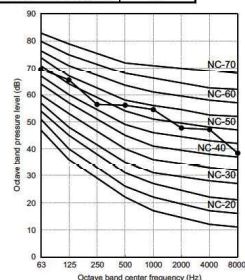
Sound pressure levels

Unit : dB(A)

IDU

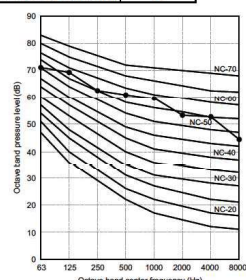
MMF-AP0725DHP-VA/VB

Sound pressure level (dB(A)) 59



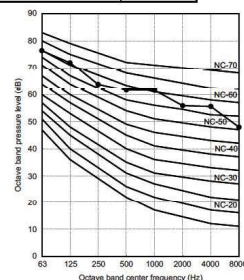
MMF-AP0965DHP-VA/VB

Sound pressure level (dB(A)) 64



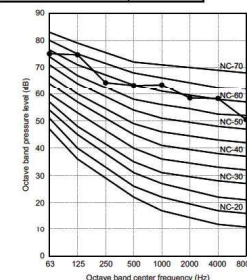
MMF-AP1445DHP-VA/VB

Sound pressure level (dB(A)) 66



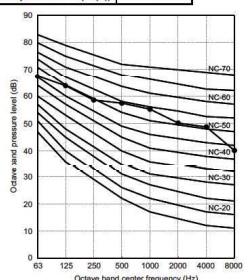
MMF-AP1925DHP-VA/VB

Sound pressure level (dB(A)) 68



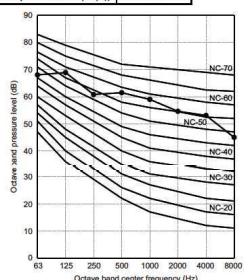
MMF-AP0725HP-VA/VB

Sound pressure level (dB(A)) 60



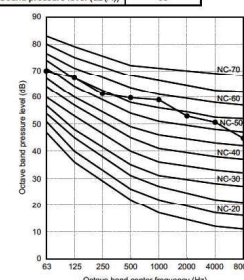
MMF-AP0965HP-VA/VB

Sound pressure level (dB(A)) 64



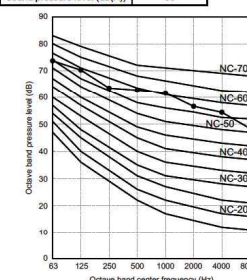
MMF-AP1445HP-VA/VB

Sound pressure level (dB(A)) 63



MMF-AP1925HP-VA/VB

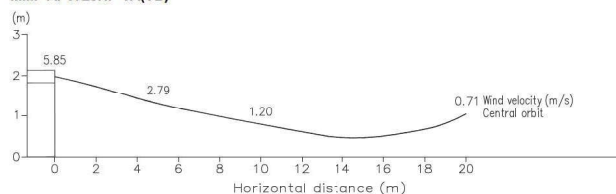
Sound pressure level (dB(A)) 66



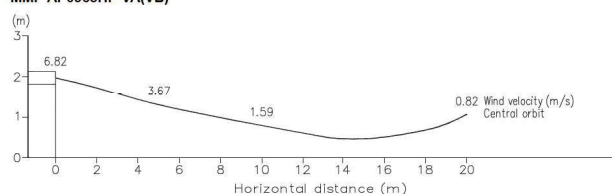
Air diffusion

Unit : m/s

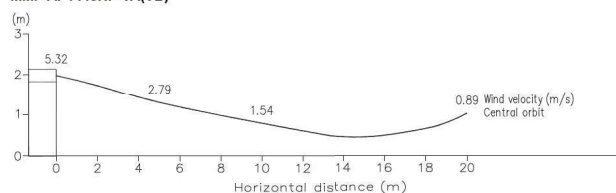
MMF-AP0725HP-VA(VB)



MMF-AP0965HP-VA(VB)



MMF-AP1445HP-VA(VB)



MMF-AP1925HP-VA(VB)

