

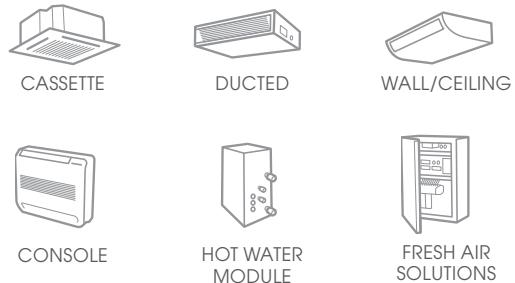
WIDE CHOICE INDOOR UNITS



> 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.

- **17 different types of indoor units**
- **Capacity from 0.3 hp to 14 hp**
- **For heating, cooling, fresh air and hot water production**



> SUPERIOR AIR COMFORT

Optimized heating operations

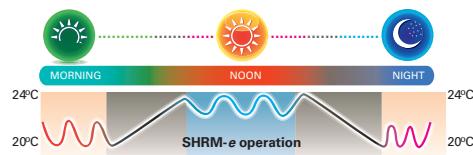
How to preserve a high heating comfort level at low temperatures or extreme humidity? Toshiba Air Conditioning has the solution! In a single module configuration, the indoor units can provide heating up to 5 hours and an algorithm precisely detects the risk of frost.

In combined configurations, the Kobetsu and Ren-Kei functions ensure defrost rotation control between independent systems, resulting in continuous heating operation.



Dual set point for more precision

The Dual Set Point increases the system's energy efficiency and reduces overall running costs, with longer periods of time in thermal off mode. Heating and cooling temperatures at which the indoor unit will begin to operate can now be individually selected giving maximum flexibility to the user.



Cool comfort with soft cooling mode

The development of the soft cooling mode provides a new level for cool comfort. You will have the freedom 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.



> LOW CONSUMPTION FOR LOW OPERATION COST

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

Example for the 4-Way Cassette size 7:



	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

> NO COMPROMISE ON AIR QUALITY

Every indoor units is equipped with air suction filters. A symbol on the remote control warns the user that the filters need to be cleaned. Available accessories: PM2.5 filters for standard 4-way cassettes, plasma ionizer for 1-way cassettes and ultra-pure filters for high walls do optimize filtration capabilities.

CHOOSE YOUR ADAPTED SYSTEM SOLUTION

FOR EUROPE

Model type	Class	INDOOR UNITS, HOT WATER & FRESH AIR SOLUTIONS																R32 compatibility
		Basic specifications																
		003 /1.1	005 /1.9	007 /2.5	009 /3.2	012 /4	015 /5	018 /6.3	024 /8	027 /9	030 /10	036 /12.5	048 /16	056 /18	072 /25	096 /31.5	112 /33.5	128 /20.8
Compact 4-way discharge cassette	MMU-UP***1MH-E			●	●	●	●	●	●									
Smart 4-way discharge cassette	MMU-UP***1H-E				●	●	●	●	●	●	●	●	●	●	●	●		
4-way discharge cassette	MMU-UP***1HP-E				●	●	●	●	●	●	●	●	●	●	●	●	●	
2-way discharge cassette	MMU-UP***1WH-E				●	●	●	●	●	●	●	●	●	●	●	●	●	
1-way discharge cassette	MMU-UP**1YHP-E	●	●	●	●	●	●	●	●	●	●	●	●					
Slim duct	MMD-UP***1SPHY-E	●	●	●	●	●	●	●	●	●	●	●						
Concealed duct	MMD-UP***1BHP-E	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Concealed duct high static	MMD-UP***1HP-E							●	●	●			●	●	●	●	●	
Ceiling suspended	MMC-UP***1HP-E						●	●	●	●		●	●	●				●
Floor-standing concealed	MML-UP***1BH-E			●	●	●	●	●	●									
Floor-standing cabinet	MML-UP***1H-E		●	●	●	●	●	●	●									
Bi-flow console	MML-UP***1NH-E		●	●	●	●	●	●										
Floor standing	MMF-UP***1H-E						●	●	●	●	●		●	●	●	●		
High wall (With & without PMV)	MMK-UP***1HP-E MMK-UP***1HPL-E	●	●	●	●	●	●	●	●	●	●	●	●					●
Mid temperature Hot Water module	MMW-UP**1LQ-E								●				●					●
High temperature Hot Water module	MMW-AP**1CHQ-E											●						
AHU DX kit (TA/TF/0-10v)	TCB-IFDM*01UP-E RBM-A*01UPVA-E	From 8 to 120HP capacity																
EMEA AHU DX Kit (std version)	MM-DXC010 + MM-DXV***							●	●	●			●	●		●	●	
EMEA AHU DX Kit (0/10v version)	RBC-DXC031 + MM-DXV***													●	●	●		
Fresh air intake indoor unit	MMD-UP***1HFP-E											●		●	●	●	●	

FOR EUROPE

Model type	Cooling/Heating capacity in HP	AIR-TO-AIR HEAT EXCHANGER																R32 compatibility
		Basic specifications																
		0.3	0.6	0.8	1	1.25	1.7	2	2.5	3	3.2	4	5	6	8	10	12	14
Air-to-air heat exchanger	VN-M**OHE				●	●	●	●	●	●					●	●	●	
Air-to-air heat exchanger + Dxcoil or + Dxcoil & Humidifier	MMD-VN***2HEXE MMD-VNK***2HEXE							●		●				●				

● :Heat pump

MMU-UP_MH

COMPACT 4-WAY CASSETTE

>R32 Ready



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

CAPACITY	SOUND PRESSURE LEVEL
0.6 HP < 2 HP	29dB(A)

OUTDOOR UNITS COMPATIBILITY			LOCAL CONTROLS		
Side Blow, MiNi SMMS & MiNi SMMS-e	SMMS-u & SHRM Advance	SMMS-e & SHRM-e	RBC-AXU31-E	RBC-AXU31UM-E	RBC-ASCU11-E RBC-AMTU31-E RBC-AMSU51-EN/ES

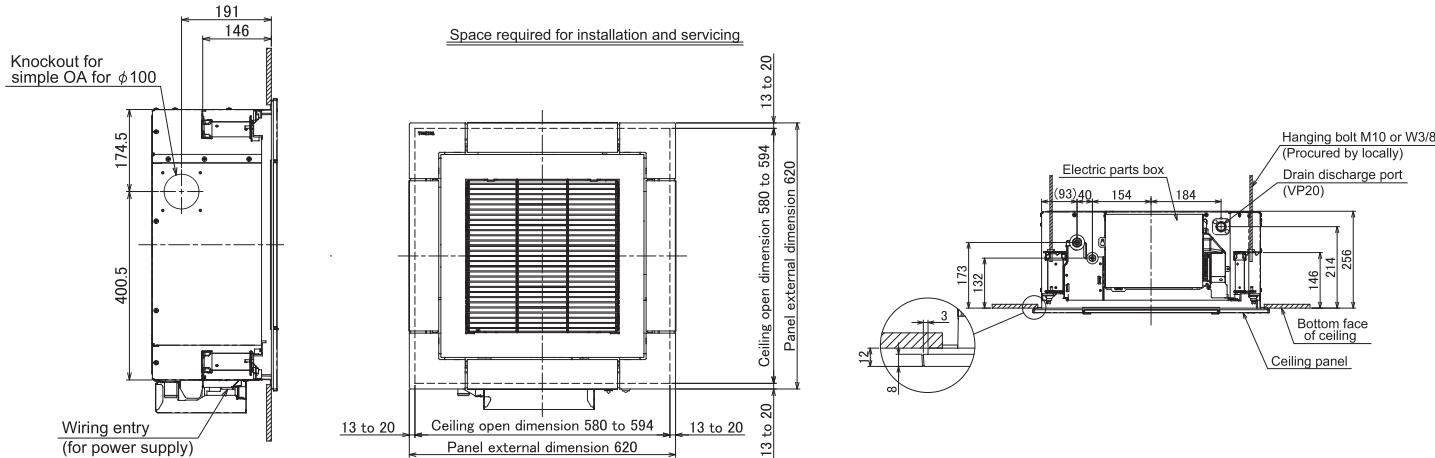
Features

Model name	MMU-	UP0051MH-E	UP0071MH-E	UP0091MH-E	UP0121MH-E	UP0151MH-E	UP0181MH-E
Capacity code	HP	0.6	0.8	1	1.3	1.7	2
Cooling Capacity	kW	1.7	2.2	2.8	3.6	4.5	5.6
Heating Capacity	kW	1.9	2.5	3.2	4.0	5.0	6.3
Electrical characteristics	Power supply		1 phase 50Hz 230V(220V-240V) - Separate power supply for indoor units is required				
	Running current	A	0.16	0.23	0.24	0.25	0.28
	Power consumption (L/H)	kW	0.013/0.016	0.013/0.023	0.014/0.025	0.014/0.027	0.015/0.03
	Starting current	A	0.28	0.41	0.43	0.44	0.50
	Main unit		Zinc hot dipping steel plate (Heat-insulating material attached to only upper plate)				
Appearance	Ceiling panel	Model name		RBC-UM21PG(W)-E			
		Panel color		Gran White (Mansell 5PB9/1)			
Outer dimensions	Main unit	HxLxP mm		256x575x575			
	Ceiling panel	HxLxP 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		Turbo fan				
Fan unit	Standard air flow (M+ / M / L+ / L)	m³/h	430(415/400/385/365)	552(500/462/395/378)	570(520/468/395/378)	594(550/504/420/402)	660(600/552/480/468)
	Motor	W			60		840(740/642/540/522)
Sound pressure level High (M+ / M / L+ / L)	dB	32 (31/30/29/29)	37 (34/33/30/29)	38 (35/33/30/29)	38 (36/34/31/30)	40 (37/35/32/31)	47 (43/39/36/34)
Sound power level High (M+ / M / L+ / L)	dB	47 (46/45/44/44)	52 (49/48/45/44)	53 (50/48/45/44)	53 (51/49/46/45)	55 (52/50/47/46)	62 (58/54/51/49)
Air filter			Standard filter (Long life filter)				
Controller			Infrared or wired remote controller				
Connecting pipe	Gas side	inch	3/8"	3/8"	3/8"	1/2"	1/2"
	Liquid side	inch	1/4"	1/4"	1/4"	1/4"	1/4"
	Drain port (Nominal dia. mm)			VP20 (Polyvinyl chloride tube)			

Drawings

Unit: mm

All models

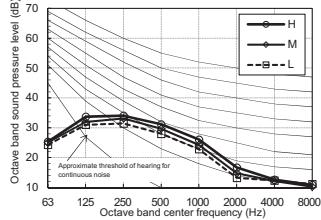


COMPACT 4-WAY CASSETTE

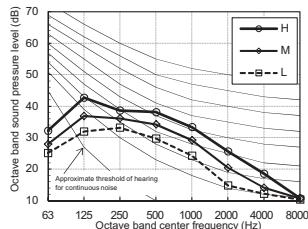
Sound pressure levels

Unit: dB(A)

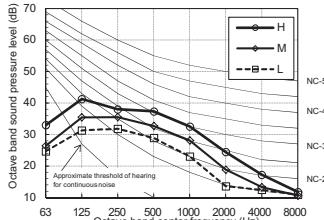
Fan tap	H	M	L
Sound pressure level (dB(A))	32	30	29



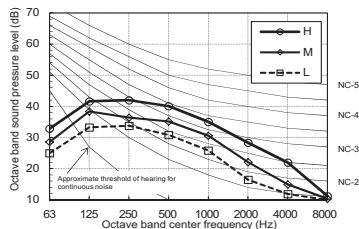
Fan tap	H	M	L
Sound pressure level (dB(A))	38	34	30



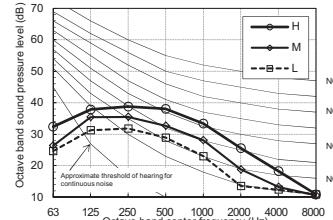
Fan tap	H	M	L
Sound pressure level (dB(A))	37	33	29



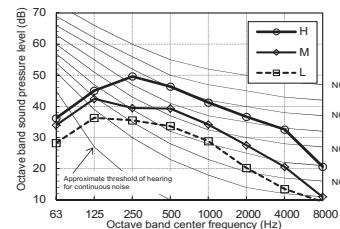
Fan tap	H	M	L
Sound pressure level (dB(A))	40	35	31



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



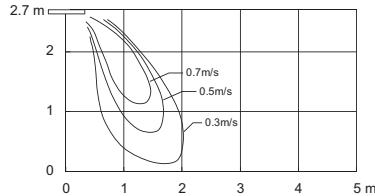
Fan tap	H	M	L
Sound pressure level (dB(A))	47	39	34



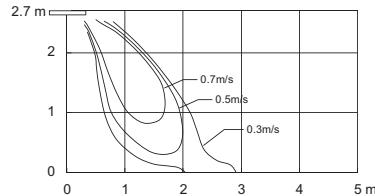
Air diffusion

Unit: m/s

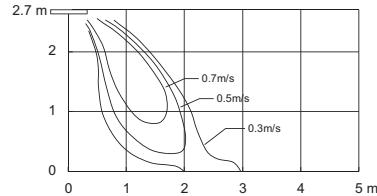
MMU-UP0051MH-E



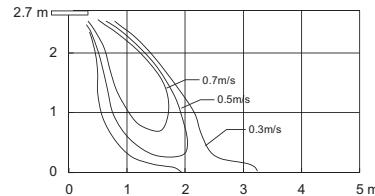
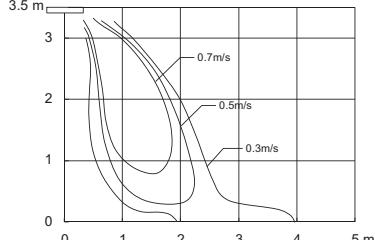
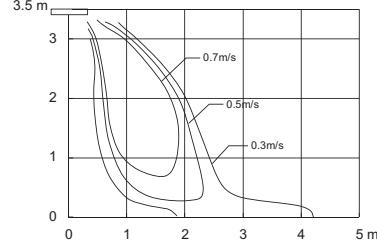
MMU-UP0071MH-E



MMU-UP0091MH-E

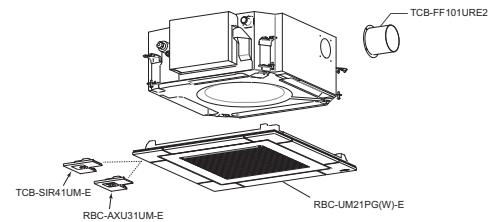


MMU-UP0121MH-E

MMU-UP0151MH-E
(High ceiling mode)MMU-UP0181MH-E
(High ceiling mode)

Accessories

Part name	Model name	Applied model	Notes
Ceiling panel	RBC-UM21PG(W)-E	MMU-UP___1MH-E	Required accessory
Auxiliary fresh air flange	TCB-FF101URE2		For easy fresh air intake by using the knockout hole of indoor unit (dia=100 mm)
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

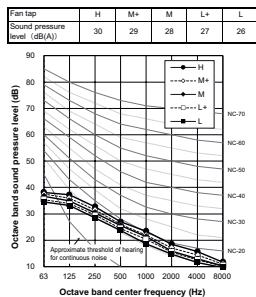
CN32	CN60	CN61	CN70	CN73	CN80
Additional ventilation control from remote control	Operation status signal output (Cooling, heating, fan, defrost, thermo-on)	External On/Off, operation output and alarm output	Warning symbol on remote control based on signal input. No IDU thermo off.	Forced IDU thermo-off 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

COMPACT 4-WAY CASSETTE

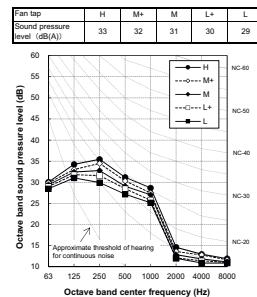
Sound pressure levels

Unit: dB(A)

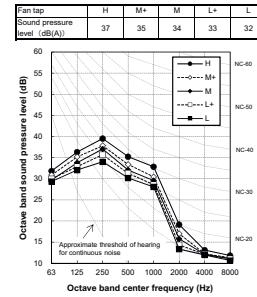
MMU-UP0091H-E, MMU-UP0121H-E



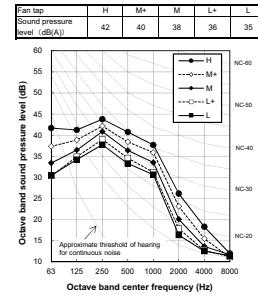
MMU-UP0151H-E



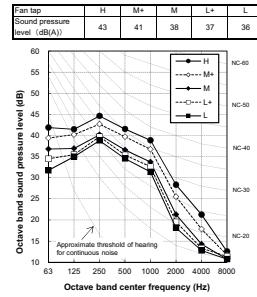
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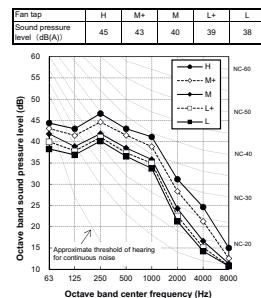
MMU-UP0241H-E



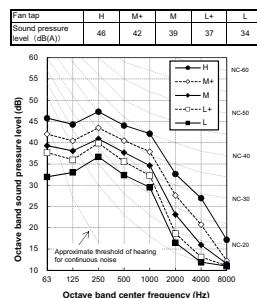
MMU-UP0271H-E



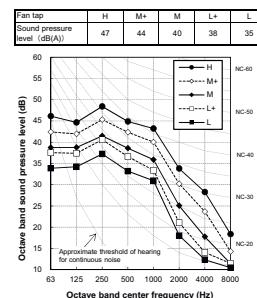
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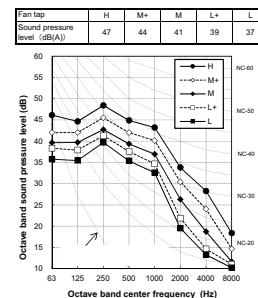
MMU-UP0361H-E



MMU-UP0481H-E

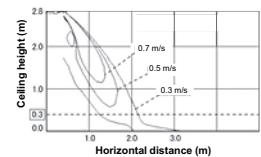


MMU-UP0561H-E

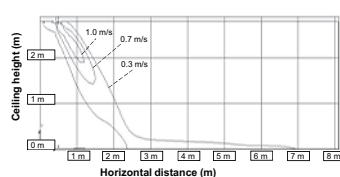


Air diffusion

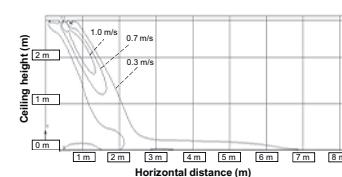
Unit: m/s

MMU-UP0091H-E,
MMU-UP0121H-E

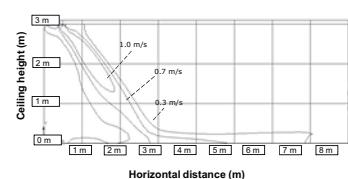
MMU-UP0151H-E



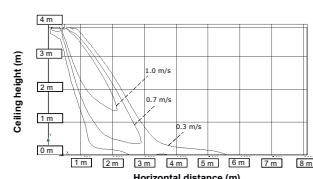
MMU-UP0181H-E



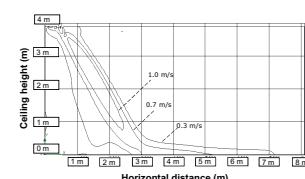
MMU-UP0241H-E



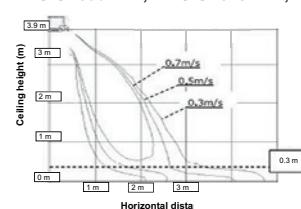
MMU-UP0271H-E



MMU-UP0301H-E

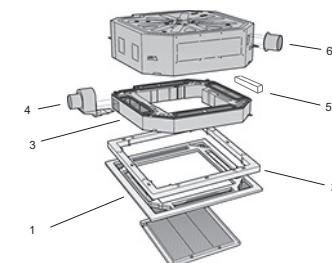


MMU-UP0361H-E, MMU-UP0481H-E, MMU-UP0561H-E



Accessories

No	Type	Model name	Qty/unit	Note
1	Ceiling Panel	RBC-U41PG(W)-E	1	
2	Spacer for height adjustment	TCB-SP1602UE	1	50 mm
3	Fresh air chamber	TCB-GFC1602UE	1	Use with TCB-GB1602U
4	Fresh air intake box	TCB-GB1602UE	1	Connection=Dia.100 mm - Fresh air intake ratio: Up to 20%
5	Air discharge direction kit	TCB-BC1602UE	1	6-direction patterns
6	Auxiliary fresh air flange	TCB-FF101URE2	1	Connection=Dia.100 mm - Fresh air intake ratio: Up to 5%
7	Occupancy sensor	TCB-SIR41U-E	1	
	Wireless remote kit	RBC-AXU41U-E	1	Cannot be mixed with occupancy sensor



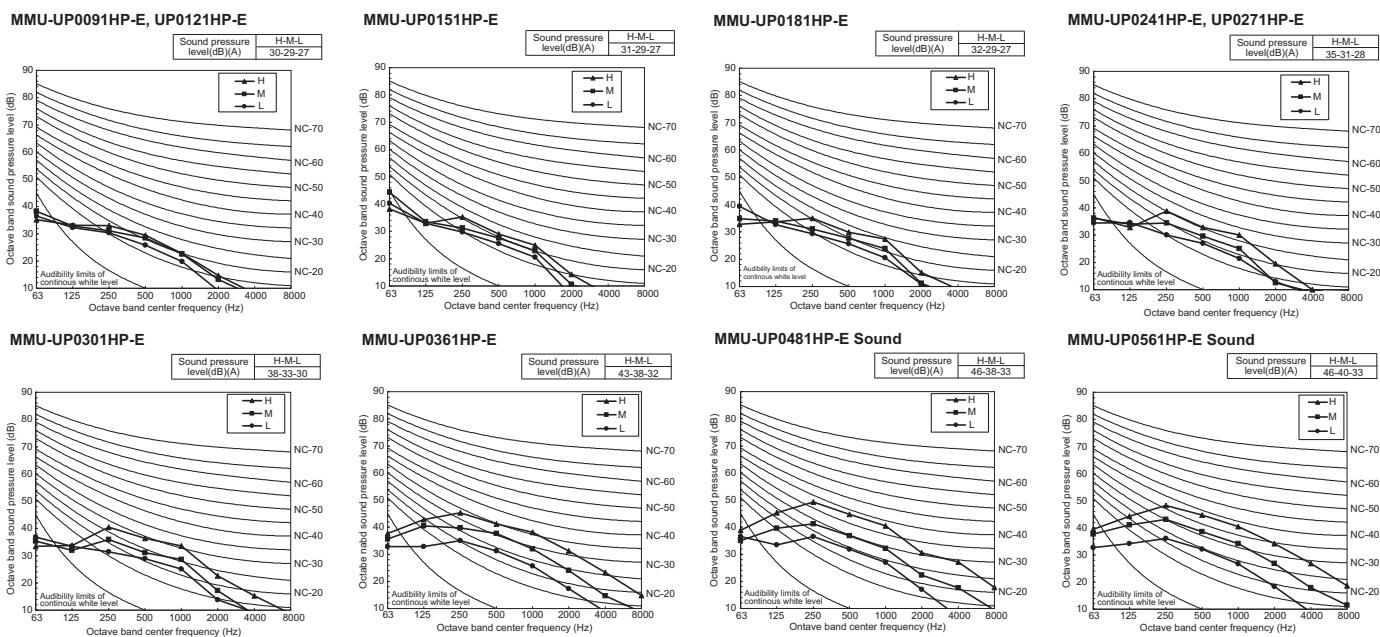
Compact 4-way cassette connectors

	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. No IDU thermo 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	TCB-PCUC2E pcb needed

4-WAY CASSETTE

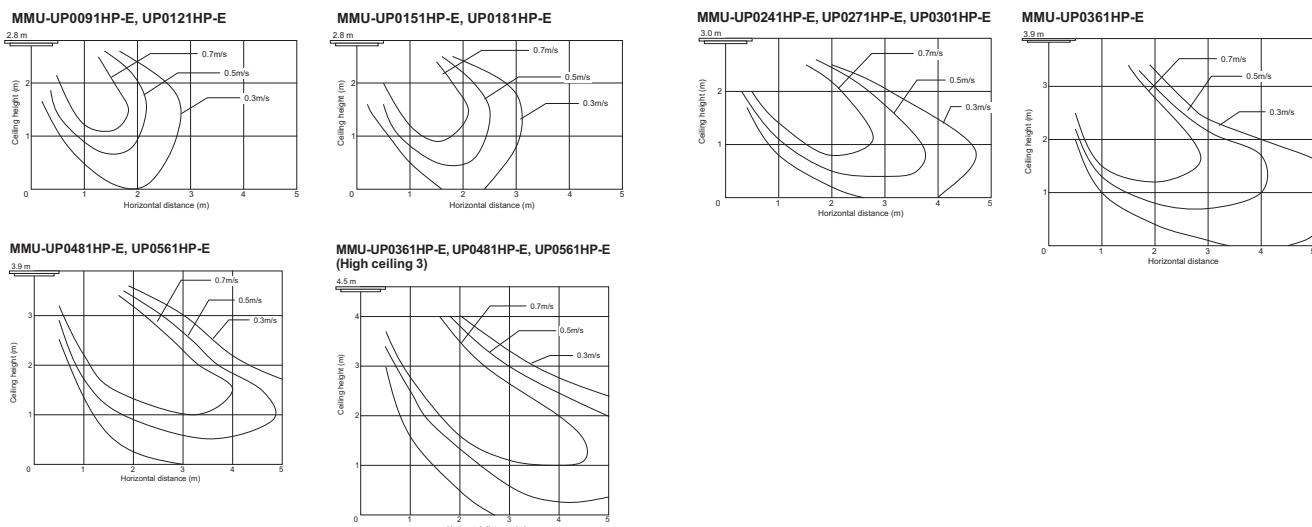
Sound pressure levels

Unit: dB(A)



Air diffusion

Unit: m/s

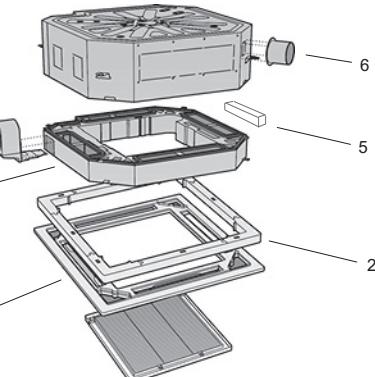


Accessories

No	Type	Model name	Qty/unit	Note
1	Ceiling Panel	RBC-U33P-E	1	
2	Spacer for height adjustment	TCB-SP1602UE	1	50 mm
3	Fresh air chamber	TCB-GFC1602UE	1	Use with TCB-GB1602U
4	Fresh air intake box	TCB-GB1602UE	1	Connection=Dia.100 mm Fresh air intake ratio: Up to 20%
5	Air discharge direction kit	TCB-BC1602UE	1	6-direction patterns
6	Auxiliary fresh air flange	TCB-FF101URE2	1	Connection=Dia.100 mm Fresh air intake ratio: Up to 5%
7	PM 2.5 filter (before/after prefILTER)	TCB-PLFC2UPE-80 TCB-PLFC2UPE-120	1	
8	Occupancy sensor	TCB-SIR33UP-E	1	
	Wireless remote kit model	RBC-AXU31U-E	1	Cannot be mixed with occupancy sensor

4-way cassette connectors

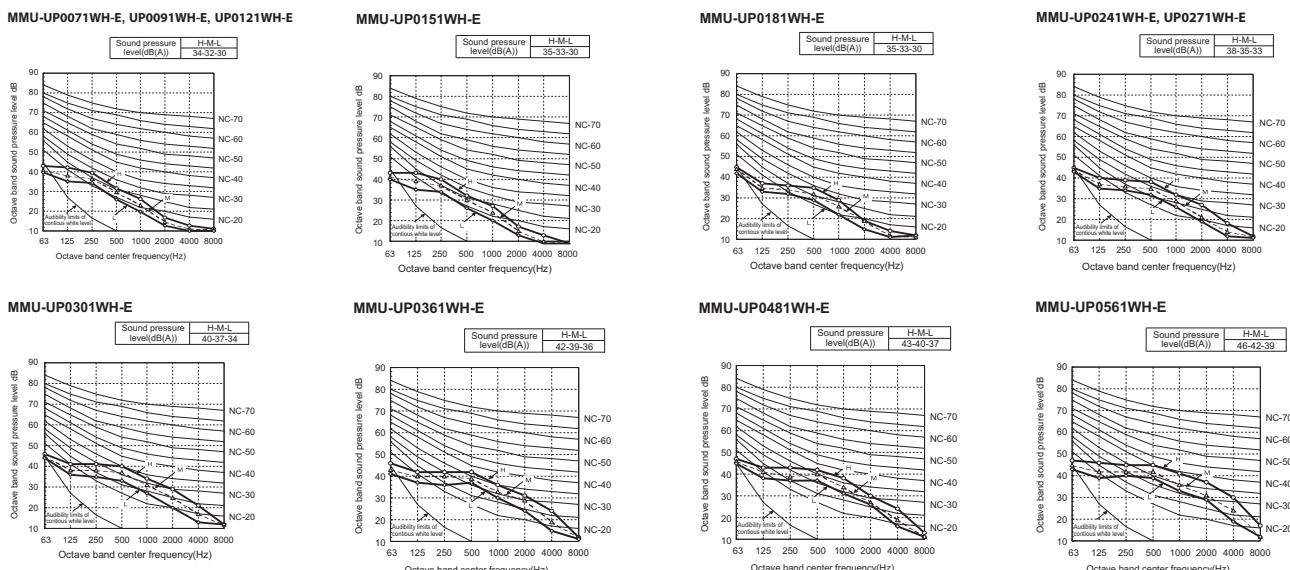
CN32	CN60	CN61	CN70	CN73	CN80
Additional ventilation control from remote control	Operation status signal output (cooling, heating, fan, defrost, thermo-on)	External On/Off, operation output and alarm output	Warning symbol on remote control based on signal input. No IDU thermo off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
*	*	*	*	*	*



2-WAY CASSETTE

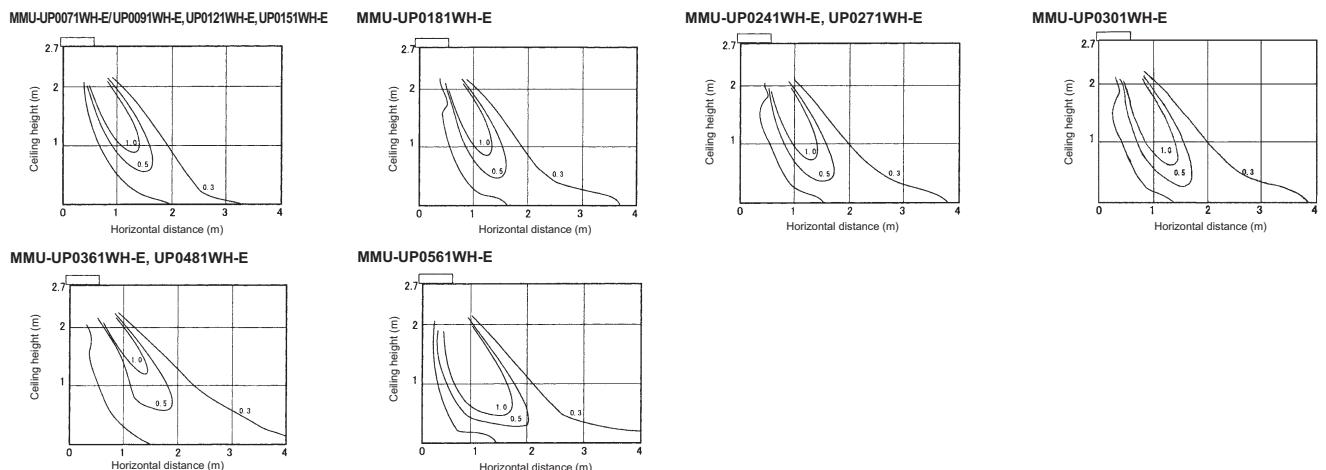
Sound pressure levels

Unit: dB(A)



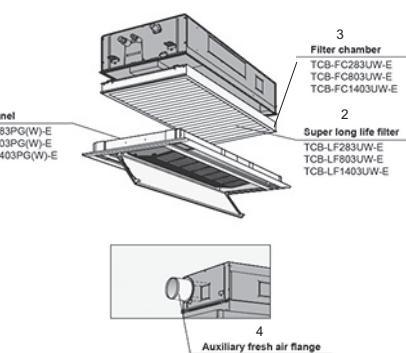
Air diffusion

Unit: m/s



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 RBC-UW283PG(W)-E RBC-UW803PG(W)-E RBC-UW1403PG(W)-E
		TBC-LF803UW-E	MMU-UP0181 to 0301WH		
		TBC-LF1403UW-E	MMU-UP0361 to 0561WH		
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

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. No IDU thermo off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
*	*	*	*	*	*


MMU-UP_YHP
1-WAY CASSETTE
>R32 Ready


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	SOUND PRESSURE LEVEL
 0.3 HP < 3 HP	 25dB(A)

OUTDOOR UNITS COMPATIBILITY

Side Blow,
MINI SMMS &
MINI SMMS-eSMMS-u &
SHRM AdvanceSMMS-e &
SHRM-e

LOCAL CONTROLS

RBC-AXU31-E
RBC-AX33UYP-ERBC-ASCU11-E
RBC-AMTU31-E
RBC-AMSU51-EN/ES

Features

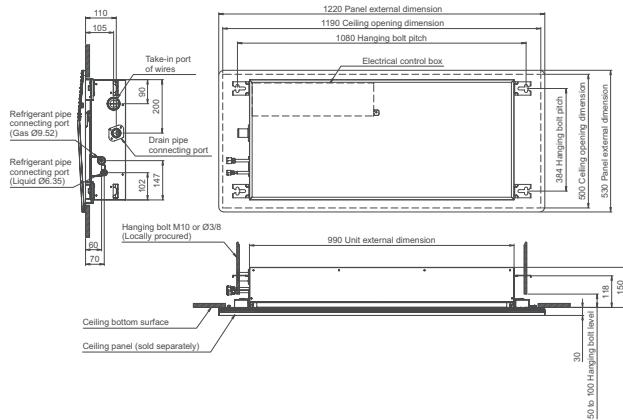
PRELIMINARY DATA

Model name	MMU-	UP0031YHP-E	UP0051YHP-E	UP0071YHP-E	UP0091YHP-E	UP0121YHP-E	UP0151YHP-E	UP0181YHP-E	UP0241YHP-E	UP0271YHP-E
Capacity code	HP	0.4	0.6	0.8	1	1.3	1.7	2	2.5	3
Cooling capacity	kW	0.9	1.7	2.2	2.8	3.6	4.5	5.6	7.1	8
Heating capacity	kW	1.3	1.9	2.5	3.2	4	5	6.3	8	9
Electrical characteristics		Power supply 1 phase 50Hz 220-240V / 1 phase 60Hz 220V (Separate power supply for indoor units is required.)								
Running current	A	0.15	0.15	0.18	0.19	0.20	0.25	0.26	0.34	0.41
Power consumption	kW	0.015	0.015	0.017	0.018	0.018	0.025	0.027	0.042	0.05
Starting current	A	0.19	0.19	0.22	0.23	0.24	0.28	0.30	0.38	0.45
Appearance	Main unit				Zinc hot dipping steel plate					
Ceiling panel	Model			RBC-UY32P-E				RBC-UY42P-E		
Panel colour					Moon white(Munsell 2.5GY9.0/0.5)					
Outer dimension	Main unit	HxLxP mm			150x990x450			150x1180x450		
	Ceiling panel	HxLxP mm			30x1220x530			30x1410x5300		
Total weight	Main unit	kg			14			15		16
	Ceiling panel	kg			4			5.0		
Heat exchanger					Finned tube					
Sound proof / Heat-insulating material					Non-flammable insulation					
Fan unit	Fan	Centrifugal fan				Cross flow fan				
	Standard air flow (High/Mid/Low)	m³/h	480/370/270	480/370/270	500/390/270	520/410/290	540/420/290	750 / 630 / 500	800 / 650 / 500	940 / 770 / 600
	Motor output	W	30					42		59
Sound pressure level (High/Mid/Low)	dB(A)	37/33/25	37/33/25	38/34/25	39/35/26	40/36/26	39/36/34	40/37/33	46/42/37	47/44/42
Sound power level	dB(A)							54/51/49	55/52/48	61/57/55
Air filter					Standard filter (Long life filter) / Air purifier available as an option					
Controller					Remote controller					
Connecting pipe	Gas pipe	mm			3/8"			1/2"		5/8"
	Liquid pipe	mm			1/4"			1/4"		3/8"
	Drain port (Nominal dia.)	mm			25 (Polyvinyl chloride tube)					

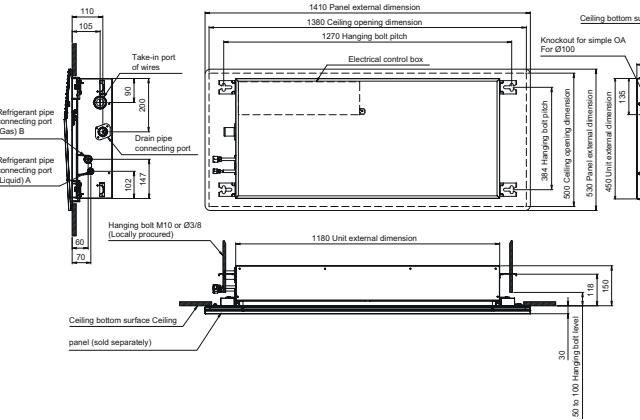
Drawings

Unit: mm

MMU-UP0031YHP-E to MMU-UP0121YHP-E

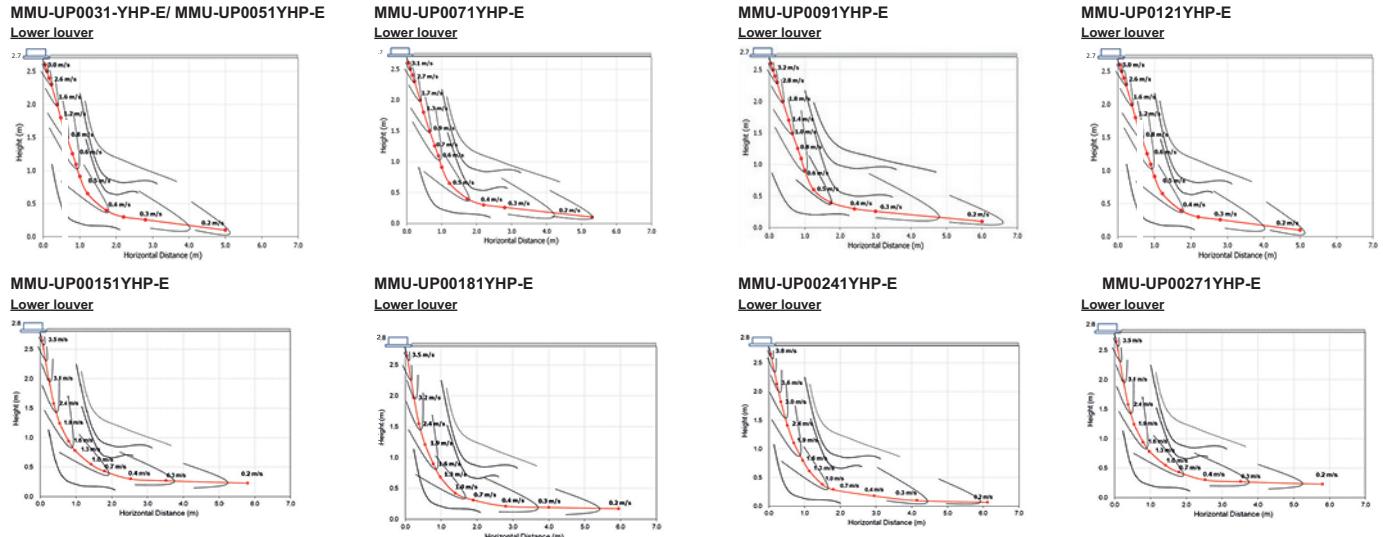


MMU-UP0151YHP-E to MMU-UP0301YHP-E

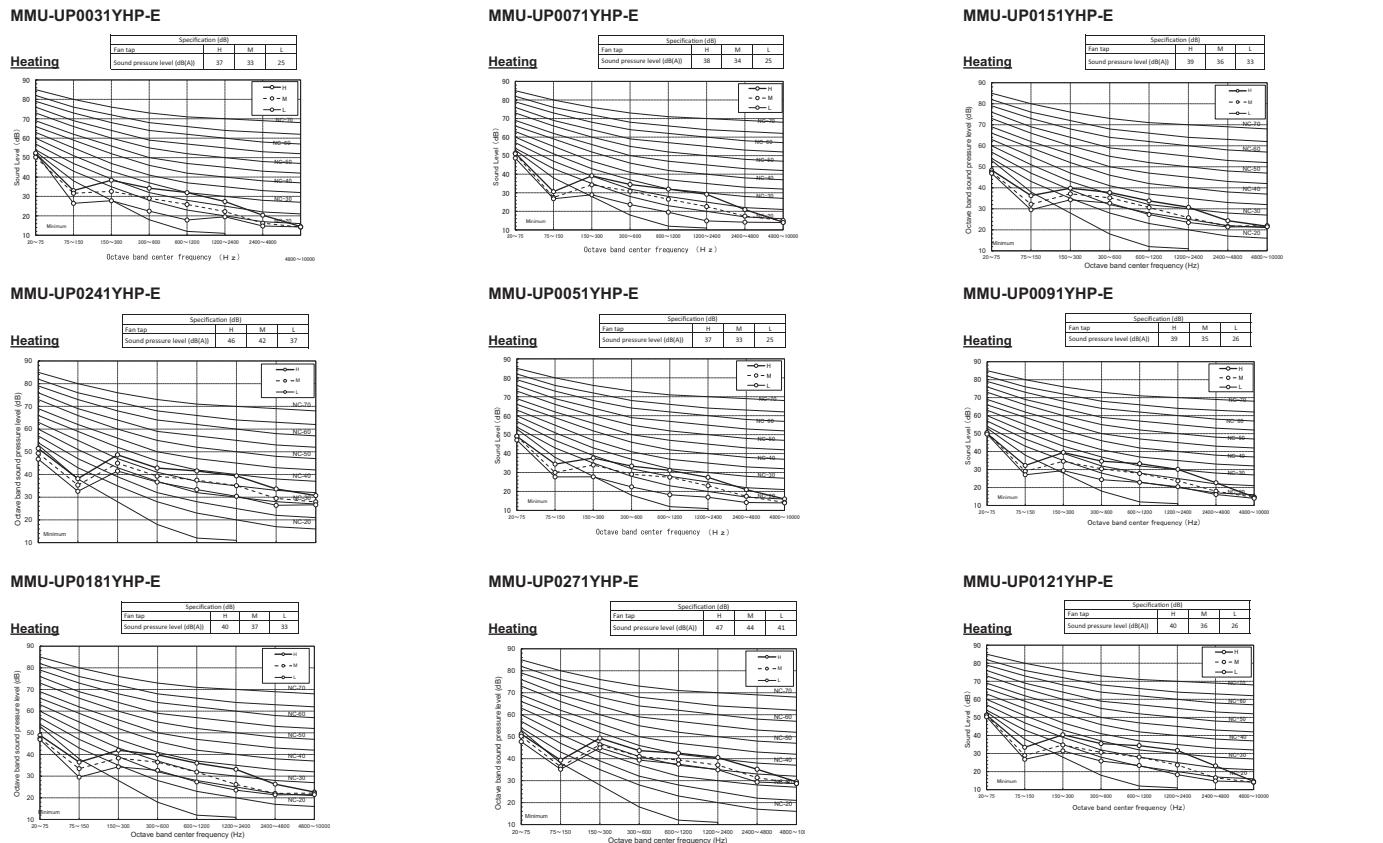


1-WAY CASSETTE

Air diffusion



Sound pressure levels



Accessories

Type	Model name	Applied model	Feature	Remarks
Panel	RBC-UY32P-E	MMU-UP_1YHP-E/TR - sizes 3 to 12	1-way cassette panel without receiver	Required accessory
	RBC-UY42P-E			Required accessory
Air purifier kit	TCB-EAPC1UYHP-E	MMU-UP_1YHP-E/TR	Set of Plasma Air Purifier, Dust sensor, Air quality indicator and Wireless receiver	
	TCB-SIR41UYP-E			Cannot match with wireless receiver kit
Wireless receiver kit	RBC-AX33UYP-E	MMU-UP_1YHP-E	Wireless RC kit for 1-way cassette	Cannot match with occupancy sensor

1-way cassette connectors

	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. No IDU thermo 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	TCB-PCUC2E pcb needed



>R32 Ready



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	SOUND PRESSURE LEVEL
2 HP < 10 HP	37dB(A)

OUTDOOR UNITS COMPATIBILITY	LOCAL CONTROLS
	RBC-AXU31-E
	RBC-ASCU11-E RBC-AMTU31-E RBC-AMSU51-EN/ES

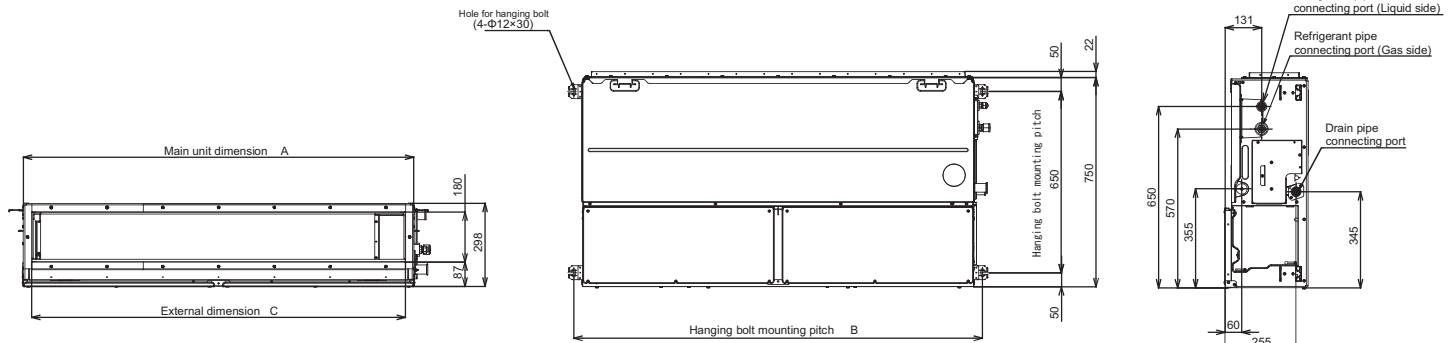
Features

Model name	MMD-	UP0181HP-E	UP0241HP-E	UP0271HP-E	UP0361HP-E	UP0481HP-E	UP0561HP-E	UP0721HP-E1	UP0961HP-E1
Capacity code		2	2.5	3	4	5	6	8	10
Cooling capacity	kW	5.6	7.1	8	11.2	14	16	22.4	28
Heating capacity	kW	6.3	8	9	12.5	16	18	25	31.5
Electrical characteristics	Power supply				1 phase 50Hz 230V(220V-240V)				
	Running current (A)	0.82	0.92	1.16	1.39	1.81	2.48	2.83	3.77
	Power consumption (kW)	0.125	0.140	0.190	0.230	0.300	0.400	0.540	0.790
	Starting current (A)	1.43	1.55	1.86	2.02	2.57	3.25	4.90	6.74
Appearance				Zinc hot dipping steel plate					
Dimensions	HxLxP 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 (High/Mid./Low) m ³ /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			50-75-125-150-175-200 (7steps)			50-83-117-150-183-217-250 (7steps)		
Sound pressure level (High/Med./Low)	dB(A)	37/33/31	38/34/31	43/41/38	41/37/34	44/41/38	46/44/41	44/40/36	46/42/38
Sound power level (High/Med./Low)	dB(A)	60/54/50	60/55/51	62/57/53	65/62/54	68/64/56	79	81	
Controller				Remote controller					
Air filter			Sold separately (TCB-LK801D-E)		Sold separately (TCB-LK1401D-E)		Sold separately (TCB-LK2801DP-E)		
Drain pump				Included			Sold separately (TCB-DP40DPE)		
Connecting pipe	Gas side inch	1/2"	5/8"	5/8"	5/8"	5/8"	7/8"	7/8"	
	Liquid side inch	1/4"	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	
	Drain port mm			25 (Polyvinyl chloride tube)					

Drawings

Unit: mm

MMD-UP0181HP-E to MMD-UP0561HP-E

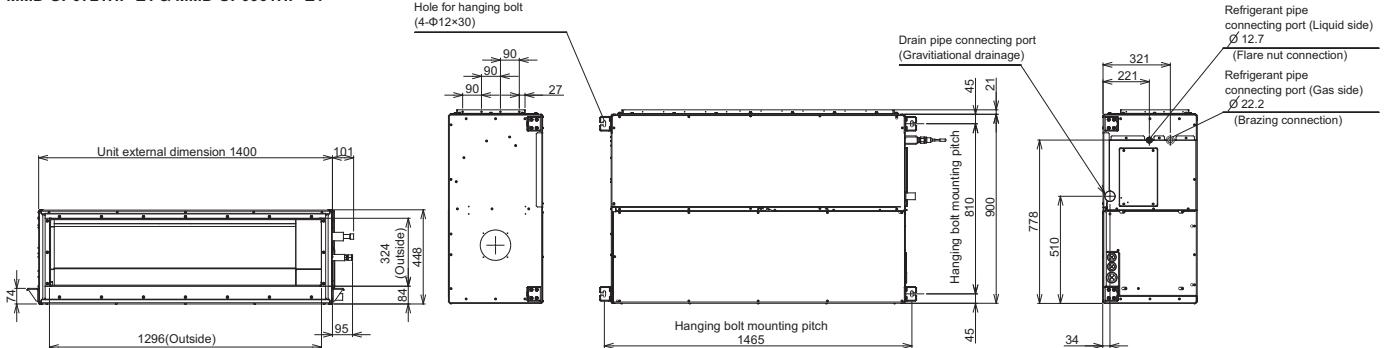


	A	B	C	D
MMD-AP0186-0276HP-E	1000	1065	940	500
MMD-AP0366-0566HP-E	1400	1465	1340	700

HIGH STATIC PRESSURE DUCT

Drawings

MMD-UP0721HP-E1 & MMD-UP0961HP-E1

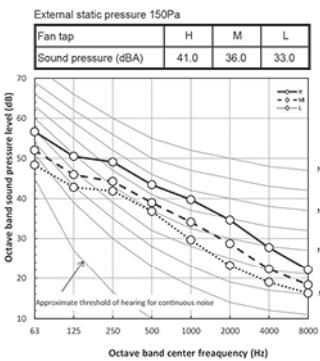


Unit: mm

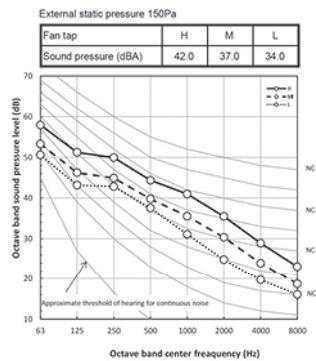
Sound pressure levels

Unit: dB(A)

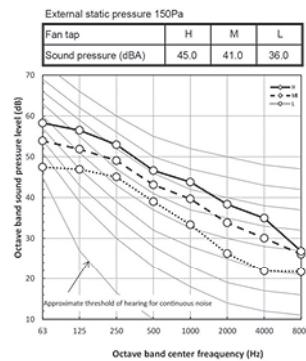
MMD-UP0181HP-E



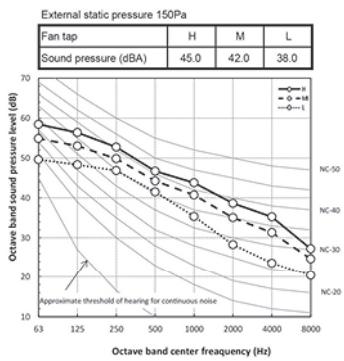
MMD-UP0241HP-E, MMD-UP0271HP-E



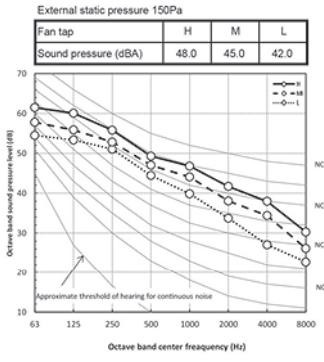
MMD-UP0361HP-E



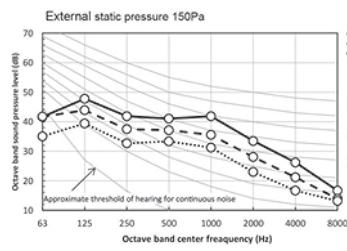
MMD-UP0481HP-E



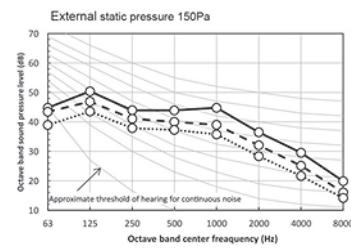
MMD-UP0561HP-E



MMD-UP0721HP-E1



MMD-UP0961HP-E1



Accessories

Type	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-E1		
Auxiliary fresh air flange	TCB-FF151US-E	UP0181/0241/0271/0361/0481/0581HP-E		
Drain pump kit	TCB-DP40DPE	MMD-AP0721/0961HP-E1		

HSP duct connectors

	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. No IDU thermo 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



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

CAPACITY	SOUND PRESSURE LEVEL
1.7 HP > 6 HP	28 dB(A)

OUTDOOR UNITS COMPATIBILITY	LOCAL CONTROLS
 Side Blow, MINI SMMS & MINI SMMS-e	 RBC-AXU31C-E
 SMMS-u & SHRM Advance	 TOSHIBA
 SMMS-e & SHRM-e	 RBC-AMTU31-E
	 RBC-AMS51-EN/ES

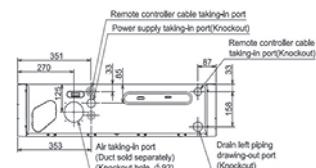
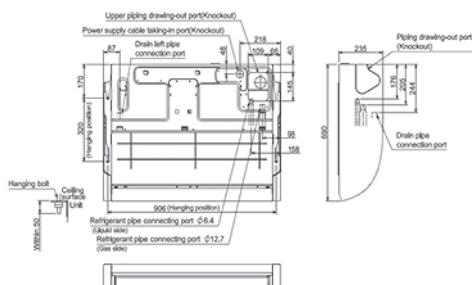
Features

Model name	MMC-	UP0151HP-E	UP0181HP-E	UP0241HP-E	UP0271HP-E	UP0361HP-E	UP0481HP-E	UP0561HP-E
Capacity code	HP	1,7	2	2,5	3	4	5	6
Cooling capacity	kW	4,5	5,6	7,1	8	11,2	14	16
Heating capacity	kW	5	6,3	8	9	12,5	16	18
Electrical characteristics	Power supply	kW		1 phase 50Hz 230V (220-240V) / 1 phase 60Hz 220V				
	Running current (50/60 Hz)	A	0.36/0.37	0.37/0.38	0.65/0.67	0.65/0.67	0.77/0.80	0.77/0.80
	Power consumption H/L	kW	0,033/0,014	0,034/0,014	0,067/0,018	0,067/0,018	0,083/0,024	0,083/0,031
	Starting current (50/60 Hz)	A	0.54/0.55	0.55/0.57	0.97/1.00	0.97/1.00	1.16/1.20	1.16/1.20
Appearance				Pure White (Munsell N9.1)				
Dimensions	HxLxP	mm	235x950x690		235x1270x690		235x1586x690	
Total weight	kg		23		29		35	
Heat exchanger				Finned tube				
Soundproof/Heat-insulating material				Polyethylene foam				
Fan unit				Centrifugal fan (Sirocco fan)				
Standard air flow	High	m³/h	840	960	1440	1440	1860	1860
	Mid.	m³/h	690	720	1020	1020	1350	1530
	Low	m³/h	540	540	750	750	1020	1200
Motor output		W		94			139	
Sound pressure level (High/Mid/Low)	dBA	36/34/28	37/35/28	41/36/29	41/36/29	44/38/32	44/41/35	46/42/36
Sound power level (High)	dBA	51	52	56	56	59	59	61
Air filter				Standard filter (Long life filter)				
Controller				Remote controller				
Room thermostat				Attached				
Connecting pipe	Gas side	inch	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"
	Liquid side	inch	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"
	Drain port	mm			20 (Polyvinyl chloride tube)			

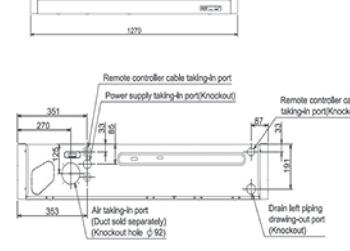
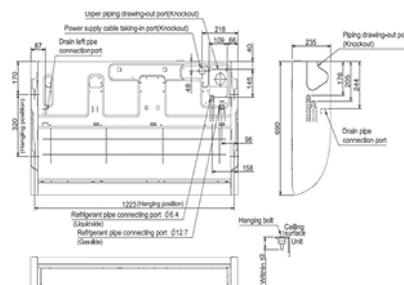
Drawings

Unit: mm

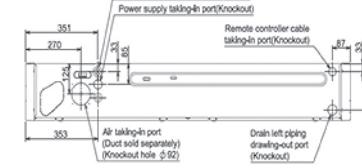
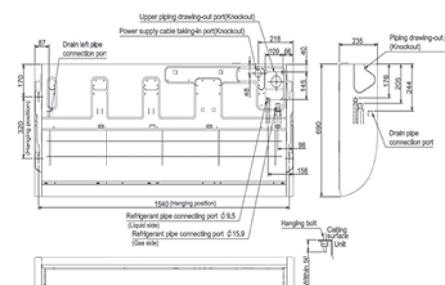
MMC-UP0151HP-E, MMC-UP0181HP-E



MMC-UP0241HP-E, MMC-UP0271HP-E



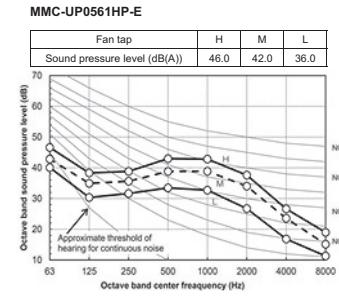
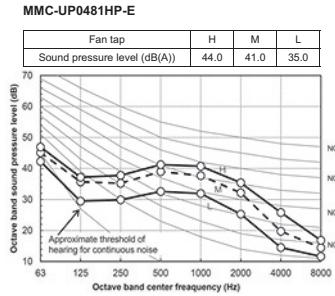
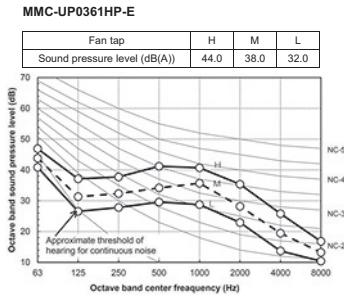
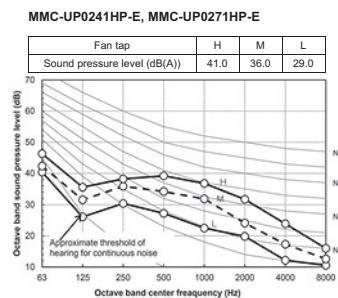
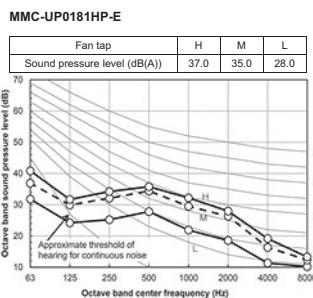
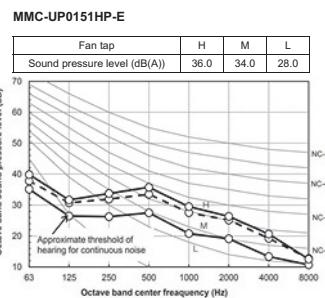
MMC-UP0361HP-E to MMC-UP0561HP-E



UNDER CEILING

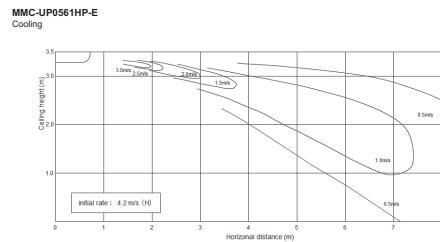
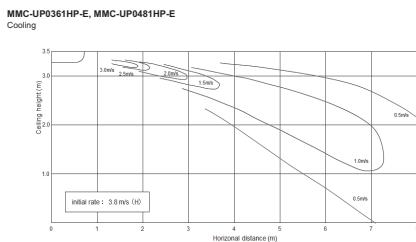
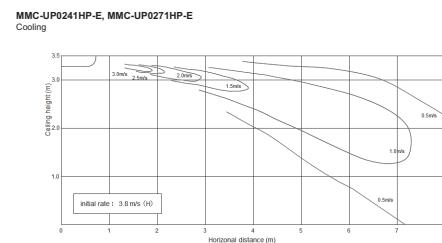
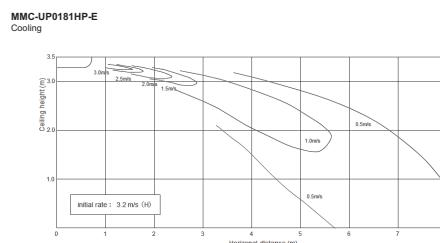
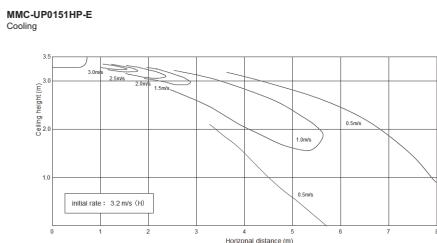
Sound pressure levels

Unit: dB(A)



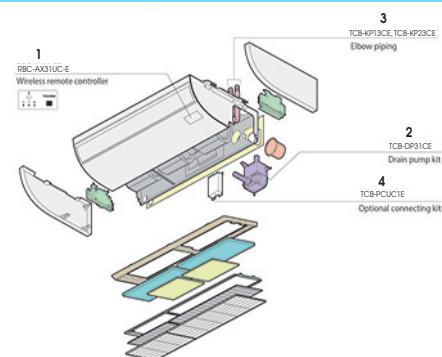
Air diffusion

Unit: m/s



Accessories

No	Part name	Model name	Applied model	Feature	Remark
1	Wireless Remote Controller kit	RBC-AXU31C-E	MMC-UP0151 to 0561HP-E	-	
2	Drain pump kit	TCB-DP31CE	MMC-UP0151 to 0561HP-E	Antibacterial glass is built into drain pump kit	
3	Elbow piping kit	TCB-KP14CPE	MMC-UP0151 to 0181HP-E	It is necessary for installation of drain pump kit Use with TCB-DP31CE	
		TCB-KP24CPE	MMC-UP0241 to 0561HP-E		
4	Option connecting kit	TCB-PCUC2E	MMC-UP0151 to 0561HP-E	For external I/O signal without local relay preparation	



Ceiling connectors

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. No IDU thermo 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

MML-UP_NH

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	SOUND PRESSURE LEVEL
0.8 HP < 2 HP	26dB(A)

OUTDOOR UNITS COMPATIBILITY



LOCAL CONTROLS



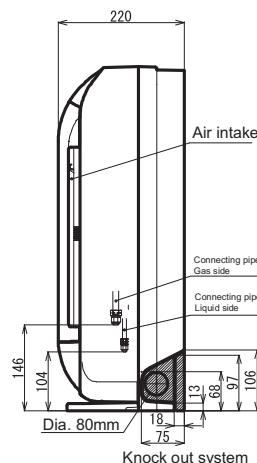
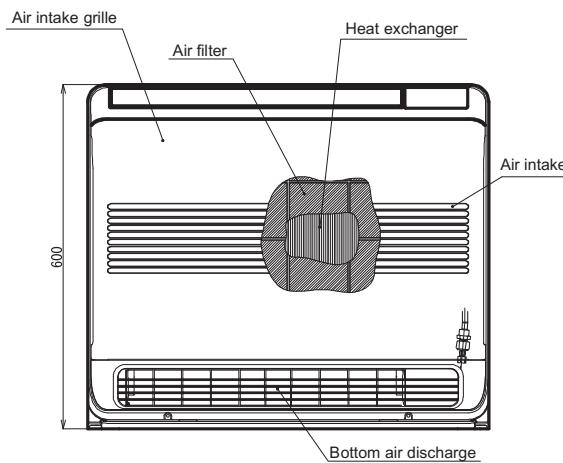
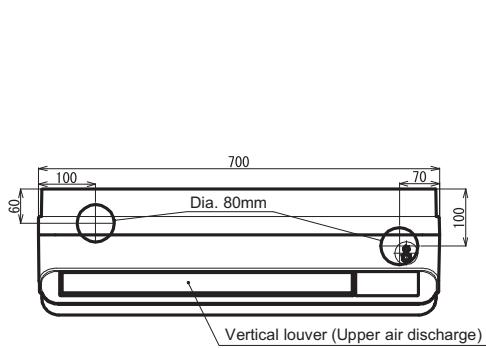
Features

Model name	MML-	UP0071NH-E	UP0091NH-E	UP0121NH-E	UP0151NH-E	UP0181NH-E
Capacity code	HP	0.8	1	1.3	1.5	2
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6
Heating capacity	kW	2.5	3.2	4	5	6.3
Electrical characteristics		Power supply 1 phase 50Hz 220-240V / 1 phase 60Hz 220V (Separate power supply for indoor units is required.)				
Running current	50 Hz	A	0.20	0.23	0.29	0.42
	60 Hz		0.17	0.17	0.25	0.36
Power consumption	H/L	kW	0.021/0.010	0.021/0.010	0.025/0.012	0.034/0.015
						0.052/0.17
Starting current		A	0.26 / 0.22	0.26 / 0.22	0.30 / 0.25	0.38 / 0.33
						0.55 / 0.47
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	HxLxP	mm		600x700x220		
Weight	kg			17		
Heat exchanger			Finned tube			
Soundproof / Heat-insulating material			Foamed polystyrene, Polyethylene			
Fan			Turbo fan			
Motor output	(W)			41		
Air flow	High	(m³/h)	510	552	624	726
	Mid.	(m³/h)	366	408	468	528
	Low	(m³/h)	282	324	384	426
Sound pressure level (High/Mid./Low)	dB(A)	38 / 32 / 26	38 / 32 / 26	40 / 34 / 29	43 / 37 / 31	47 / 40 / 34
Sound power level (High)	dB(A)	53	53	55	59	62
Air filter			Standard filter attached			
Controller			Wireless remote controller (packed with indoor unit)			
Connecting pipe	Gas side	inch	3/8"	3/8"	1/2"	1/2"
	Liquid side	inch	1/4"	1/4"	1/4"	1/4"
	Drain port (Nominal dia.)	mm		16 (Polypropylene tube)		

Drawings

Unit: mm

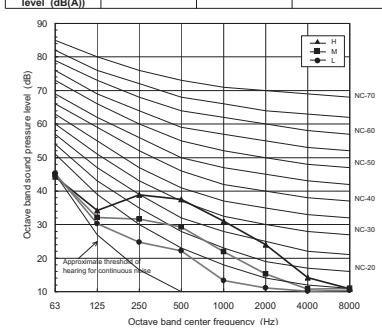
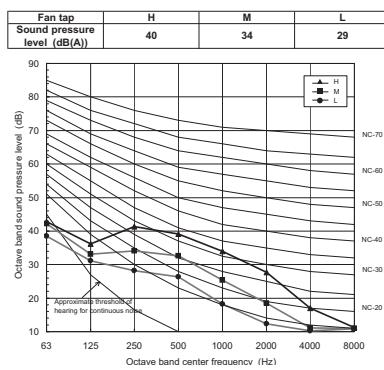
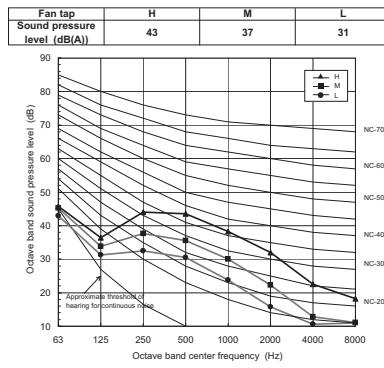
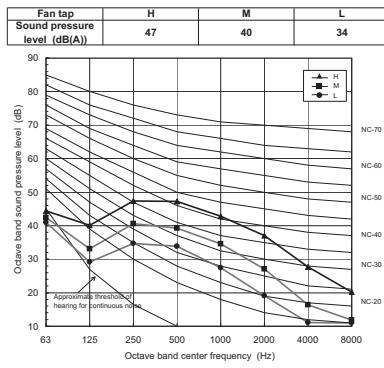
All models



BI-FLOW CONSOLE

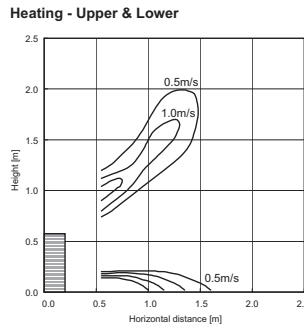
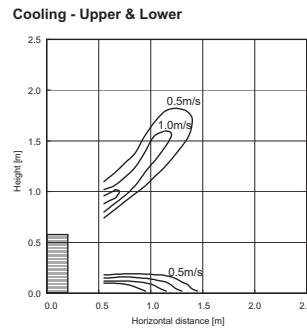
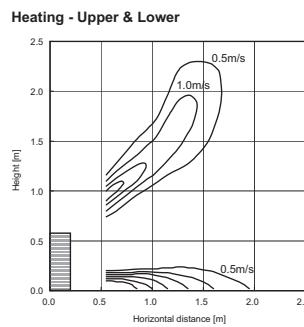
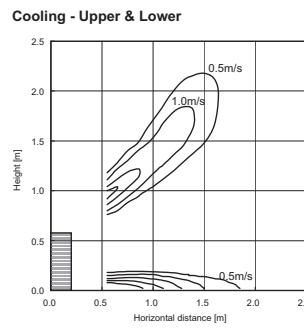
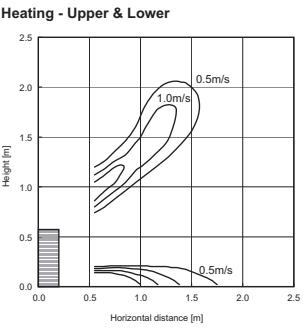
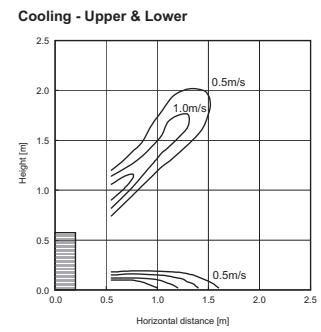
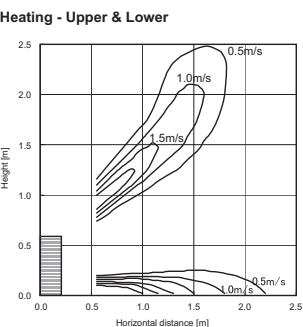
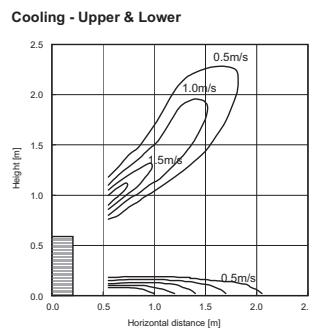
Sound pressure levels

Unit: dB(A)

MML-UP0071NH-E, UP0091NH-E**MML-UP0121NH-E****MML-UP0151NH-E****MML-UP0181NH-E**

Air diffusion

Unit: m/s

MML-UP0071NH-E, UP0091NH-E**MML-UP0151NH-E****MML-UP0121NH-E****MML-UP0181NH-E**

Bi-flow console connectors

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. No IDU thermo off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
*	*	*	-	-	*



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	SOUND PRESSURE LEVEL
0.8 HP < 2.5 HP	35dB(A)

OUTDOOR UNITS COMPATIBILITY



Side Blow & Mini SMMS-e



SMMS-u



SMMS-e



SHRM-e

LOCAL CONTROLS



RBC-AXU31-E

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

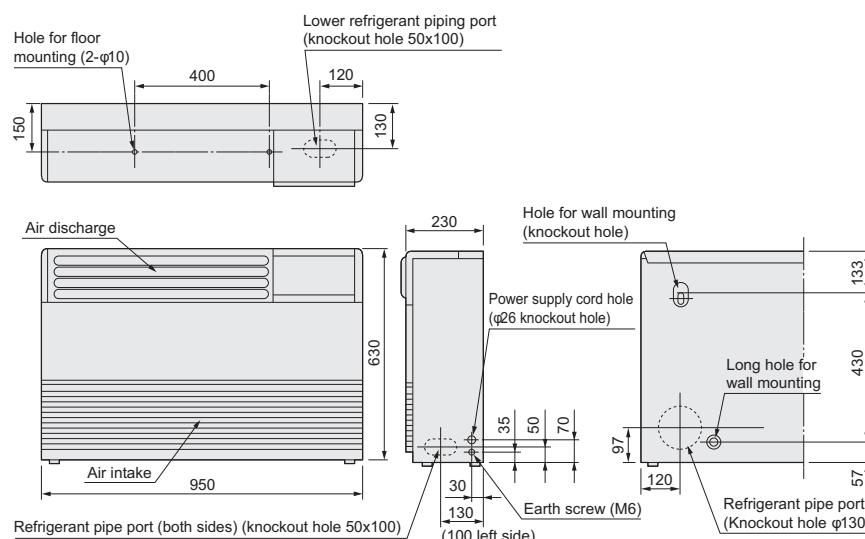
Features

Model name	MML-	UP0071H-E	UP0091H-E	UP0121H-E	UP0151H-E	UP0181H-E	UP0241H-E	
Capacity code	HP	0.8	1	1.3	1.7	2	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	5	6.3	8	
Electrical characteristics		Power supply 1 phase 50Hz 220-240V / 1 phase 60Hz 220V (Separate power supply for indoor units is required.)						
Running current	50 Hz	A	0.26	0.43	0.47			
	60 Hz	A	0.25	0.44	0.53			
Power consumption	kW	0.056 / 0.044		0.092 / 0.069		0.102 / 0.076		
Power factor	%	94 / 96		93 / 95		94 / 97		
Starting current	A	0.60		0.80		1.10		
Appearance		Silky shade (Y8.5/0.5)						
Outer dimension	HxLxP mm			630x950x230				
Total weight	kg		37			40		
Heat exchanger				Finned tube				
Soundproof/Heat-insulating material		Non-flammable insulation						
Fan unit	Fan			Centrifugal fan				
	Standard air flow (High/Mid./Low)	m³/h	480 / 420 / 360		900 / 780 / 650		1.080 / 930 / 780	
Motor output	W		45			70		
Sound pressure level (High/Mid./Low)	dB(A)	39 / 37 / 35		45 / 41 / 38		49 / 44 / 39		
Sound power level (High)	dB(A)	54		60		64		
Air filter				Standard filter (Simple filter)				
Controller				Remote controller				
Connecting pipe	Gas side	inch	3/8"	3/8"	1/2"	1/2"	5/8"	
	Liquid side	inch	1/4"	1/4"	1/4"	1/4"	3/8"	
Drain port (Nominal dia.)		mm		20 (Polyvinyl chloride tube)				

Drawings

Unit: mm

All models

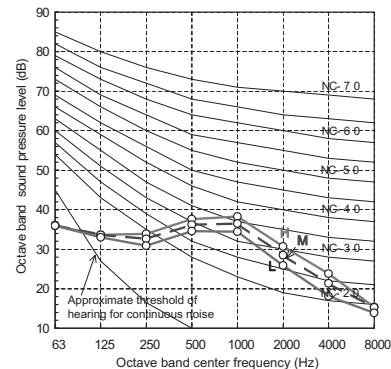


Sound pressure levels

Unit: dB(A)

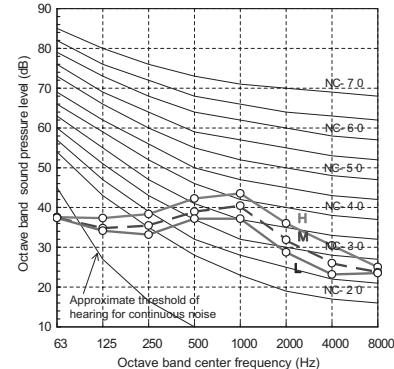
MML-UP0071H-E, UP0091H-E

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



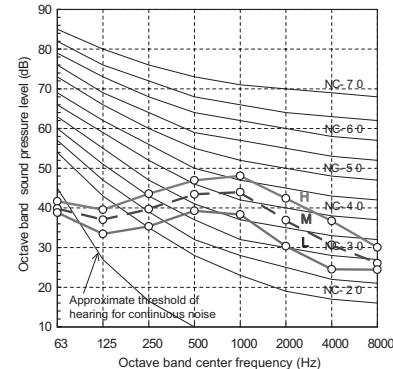
MML-UP0121H-E, UP0151H-E

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



MML-UP0181H-E, UP0241H-E

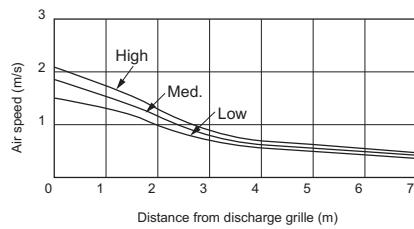
Fan tap	H	M	L
Sound pressure level (dB(A))	49	44	39



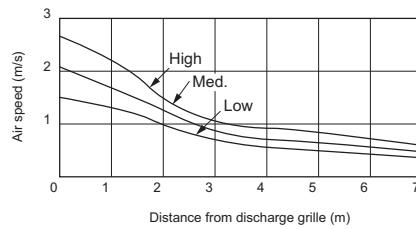
Air diffusion

Unit: m/s

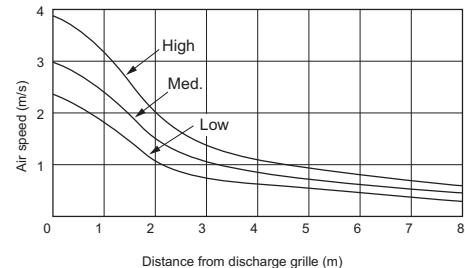
MML-UP0071H-E, UP0091H-E



MML-UP0121H-E, UP0151H-E



MML-UP0181H-E, UP0241H-E



Console connectors

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. No IDU thermo off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
*	*	*	*	*	*

MML-UP_BH

CONCEALED CONSOLE



This slim unit is designed to easily fit into a compact space and to perfectly integrate itself behind a decorative panel. This is the ideal unobtrusive solution that blends into any interior.

CAPACITY	SOUND PRESSURE LEVEL
0.8 HP < 2.5 HP	32dB(A)

OUTDOOR UNITS COMPATIBILITY



LOCAL CONTROLS



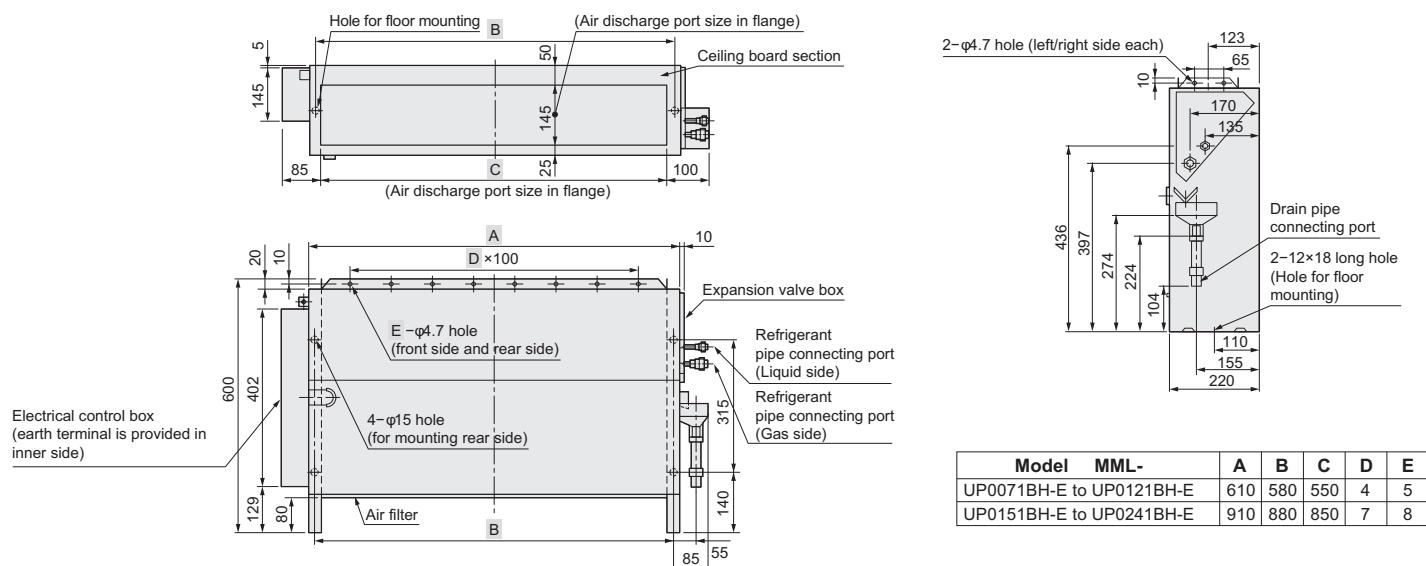
RBC-ASCU11-E
RBC-AMTU31-E
RBC-AMSU51-EN/ES

Features

Model name	MML-	UP0071BH-E	UP0091BH-E	UP0121BH-E	UP0151BH-E	UP0181BH-E	UP0241BH-E
Capacity code	HP	0.8	1	1.3	1.7	2	2.5
Cooling capacity	kW	2.2	2.8	3.8	4.5	5.6	7.1
Heating capacity	kW	2.5	3.2	4	5	6.3	8
Power supply		1 phase 50Hz 200-240V / 1 phase 60Hz 220V (Separate power supply for indoor units is required.)					
Electrical characteristics	Running current 50 Hz	A	0.25	0.45	0.46		
	60 Hz		0.27	0.46	0.51		
	Power consumption H/L 50 Hz	kW	0.056/0.039	0.090/0.062	0.095/0.067		
	60 Hz		0.058/0.041	0.096/0.068	0.110/0.071		
Fan unit	Power factor 50 Hz		97	87	90		
	60 Hz		98	95	98		
	Starting current	A	0.60	0.80	1.00		
Appearance			Zinc hot dipping steel plate				
Dimensions	HxLxP mm		600x745x220		600x1075x220		
Weight	kg		21		29		
Heat exchanger			Finned tube				
Soundproof/Heat-insulating material			Non-flammable insulation				
Fan unit	Fan		Centrifugal fan				
	Standard air flow (High/Mid./Low)	m³/h	460 / 400 / 300		740 / 600 / 490		950 / 790 / 640
	Motor output	W	19		70		
	Static pressure	Pa		0			
Air filter			Standard filter (Simple filter)				
Controller			Remote controller				
Connecting pipe	Gas side	inch	3/8"	3/8"	1/2"	1/2"	5/8"
	Liquid side	inch	1/4"	1/4"	1/4"	1/4"	3/8"
	Drain port (Nominal dia.)	mm		20 (One side of male screw)			
Sound pressure level (High/Mid./Low)	dB(A)		36 / 34 / 32			42 / 37 / 33	
Sound power level (High)	dB(A)		54			60	

Drawings

Unit: mm

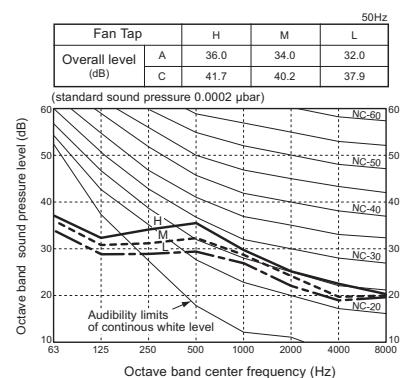


CONCEALED CONSOLE

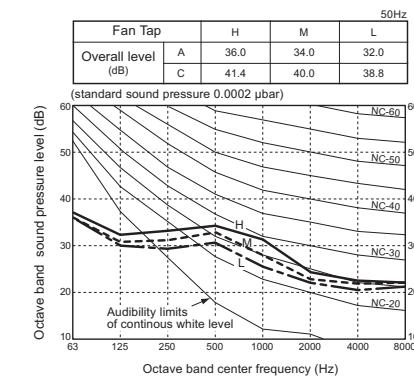
Sound pressure levels

Unit: dB(A)

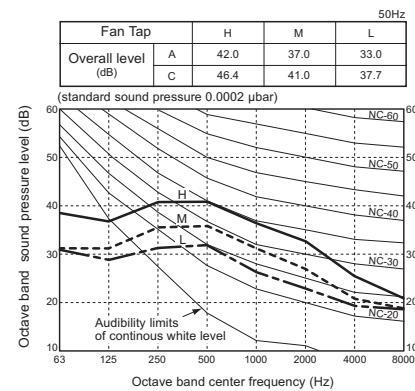
MML-UP0071BH-E to MML-UP0121BH-E



MML-UP0151BH-E, MML-UP0181BH-E



MML-UP0241BH-E



Concealed chassis embedded connectors

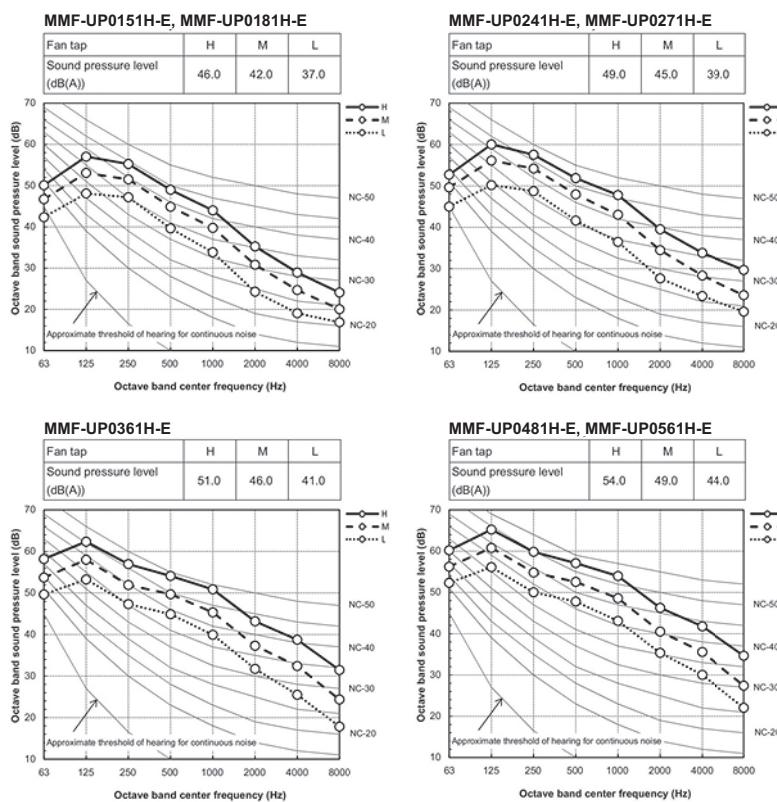
CN32	CN60	CN61	CN70	CN73	CN80
Additional ventilation control from remote control	Operation status signal output (cooling, heating, fan, defrost, thermo-on)	External On/Off, operation output and alarm output	Warning symbol on remote control based on signal input. No IDU thermo off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
*	*	*	*	*	*

> IDU

FLOOR STANDING

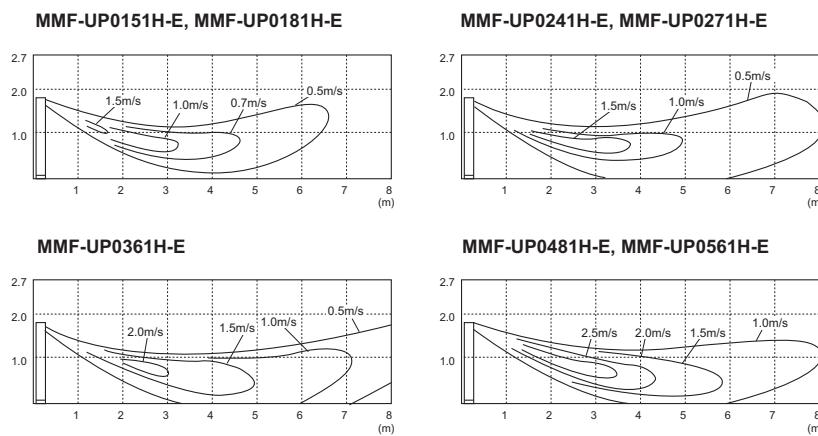
Sound pressure levels

Unit: dB(A)



Air diffusion

Unit: m/s



Floor standing embedded connectors

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. No IDU thermo 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	SOUND PRESSURE LEVEL
0.3 HP < 4 HP	25dB(A)

OUTDOOR UNITS COMPATIBILITY

Side Blow,
MINI SMMS &
MINI SMMS-eSMMS-u &
SHRM AdvanceSMMS-e &
SHRM-e

LOCAL CONTROLS



Included

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

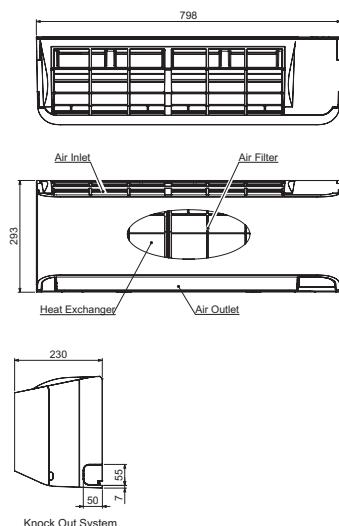
Features

Model name	Standard application	MMK-UP0031HP-E	MMK-UP0051HP-E	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	
low noise applications	MMK-UP0031HPL-E	MMK-UP0051HPL-E	MMK-UP0071HPL-E	MMK-UP0091HPL-E	MMK-UP0121HPL-E	MMK-UP0151HPL-E	MMK-UP0181HPL-E	MMK-UP0241HPL-E	-	-	-	-	
Capacity code	0.3	0.6	0.8	1	1.25	1.7	2	2.5	3	3.2	4		
Cooling capacity	kW	0.9	1.7	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	
Heating capacity	kW	1.3	1.9	2.5	3.2	4.0	5.0	6.3	8.0	9.0	10.0	12.5	
Power supply													
Electrical characteristics	Running current	A	0.15	0.14	0.15	0.16	0.17	0.25	0.28	0.40	0.3	0.50	0.06
	Power consumption	kW	0.015	0.015	0.015	0.016	0.017	0.028	0.032	0.05	0.034	0.054	0.066
	Starting current	A	0.19	0.19	0.20	0.21	0.22	0.35	0.38	0.50	0.34	0.50	0.60
Outer dimension	HxLxP	mm	293x798x230					320x1050x250			348x1200x280		
Weight	kg	11					16			21			
Air Flow (H / M+ / M / L+ / L)	m3/h	455/370/270	455/370/270	480/385/270	510/395/270	540/410/270	840/770/690/ 620/550	900/810/720/ 640/550	1200/1050/900/ 750/600	1200/1000/800	1500/1300/1100	1650/1350/1250	
Sound Pressure Level (H / M+ / M / L+ / L) (*2)	dB(A)	33/29/25	33/29/25	35/30/25	36/31/25	37/32/25	40/38/36/34/32	41/39/37/35/32	45/42/39/36/33	43/41/39	48/44/41	50/45/43	
Sound Power Level (*2)	dB(A)	tbc	48	50	51	52	55	56	60	60	63	65	
Heat exchanger	Finned tube												
Soundproof/Heat-insulating material	Non-flammable insulation												
Fan	Cross Flow Fan												
Controller (Packed with unit)	WH-TA09NE												
Connecting pipe	Gas side	mm	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"	
	Liquid side	mm	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	
Drain port diameter	mm	16 (Polyvinyl chloride tube)											

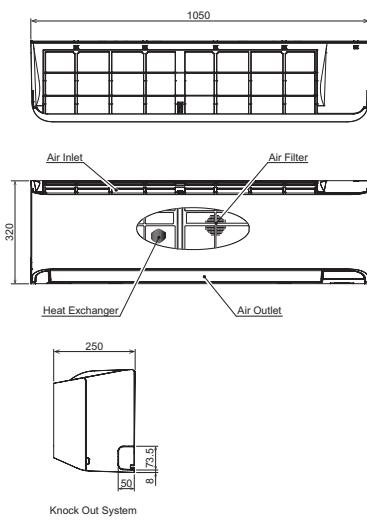
Drawings

Unit: mm

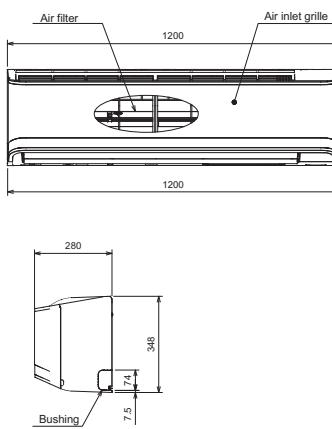
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MMK-UP0151HP(L)-E to MMK-UP0241HP(L)-E



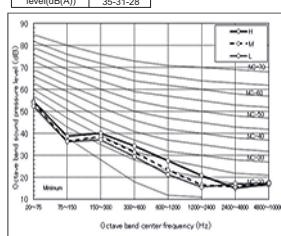
MMK-UP0271HP-E to MMK-UP0361HP-E



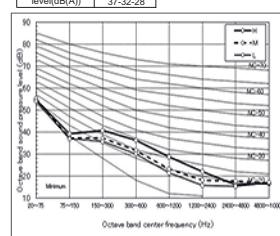
HIGH-WALL**Sound pressure levels**

Unit: dB(A)

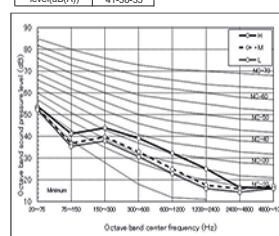
MMK-UP0031HP(L)-E, UP0051HP(L)-E



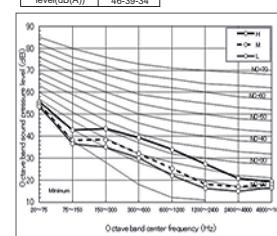
MMK-UP0071HP(L)-E



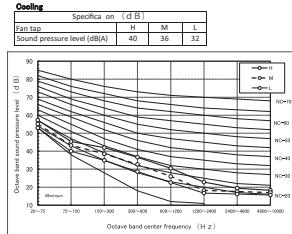
MMK-UP0091HP(L)-E



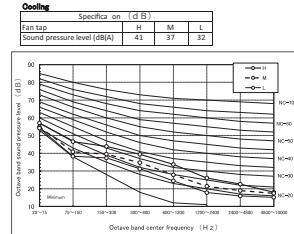
MMK-UP0121HP(L)-E



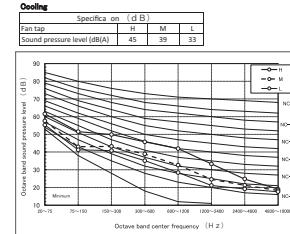
MMK-UP0151HP(L)-E



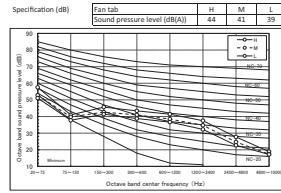
MMK-UP0181HP(L)-E



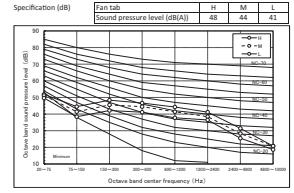
MMK-UP0241HP(L)-E



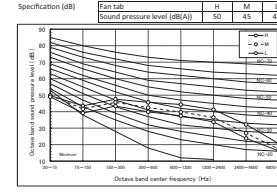
MMK-UP0271HP-E



MMK-UP0301HP-E

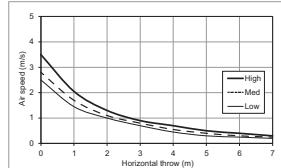


MMK-UP0361HP-E

**Air diffusion**

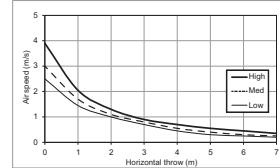
MMK-UP0031HP(L)-E

High wind : 3.8m/s - Med wind : 2.8m/s - Low wind : 2.5m/s



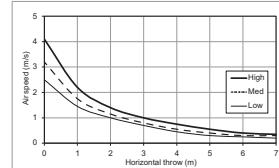
MMK-UP0071HP(L)-E

High wind : 3.9m/s - Med wind : 3.0m/s - Low wind : 2.5m/s



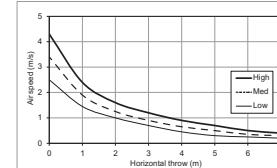
MMK-UP0091HP(L)-E

High wind : 4.1m/s Med wind : 3.2m/s Low wind : 2.5m/s

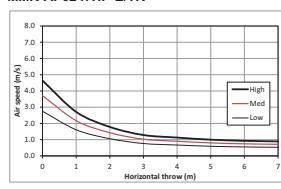


MMK-UP0121HP(L)-E

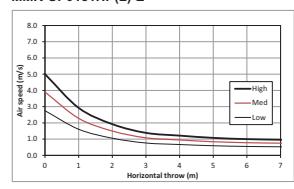
High wind : 4.3m/s Med wind : 3.4m/s Low wind : 2.5m/s



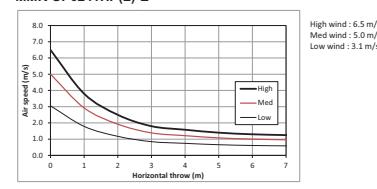
MMK-AP0247HP-E/TR



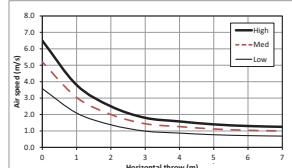
MMK-UP0181HP(L)-E



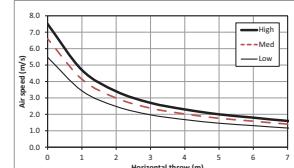
MMK-UP0241HP(L)-E



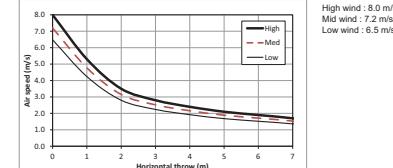
MMK-UP0271HP-E



MMK-UP0301HP-E



MMK-UP0361HP-E

**Accessories**

Type	Model name	Applied model	Appearance	Remarks
PMV Kit	RBM-PMV0301U-E	0.3 to 1.25HP high-wall		Needed for low noise application high wall
	RBM-PMV0901U-E	1.7 to 3.0HP high-wall		

High wall embedded connectors

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. No IDU thermo off.	Forced IDU thermo-off based on signal input	Forced IDU thermo-off and IDU lock based on signal input
*	*	*	-	-	*