

MMYMAP\_6HT8P  
SMMS-e



Piping rules

		Allowable value	Piping section
Piping length	Total extension of pipe (Liquid pipe, real length)	Below 34HP	300m
		34HP or more	1000m
	Farthest piping length	Equivalent length	235m
		Real length	190m
	Equivalent length of farthest piping form 1st branching		90m
	Equivalent length of farthest piping between outdoor units		25m
	Max. equivalent length of main piping	Equivalent length	120m
		Real length	100m
Max. equivalent length of outdoor unit connecting piping		10m	
Max. real length of indoor unit connecting piping		30m	
Max. equivalent length between branches		50m	
Difference in height	Height between indoor and outdoor units	Upper outdoor unit	70m
		Lower outdoor unit	40m
	Height between indoor units		40m
	Height between outdoor units		5m

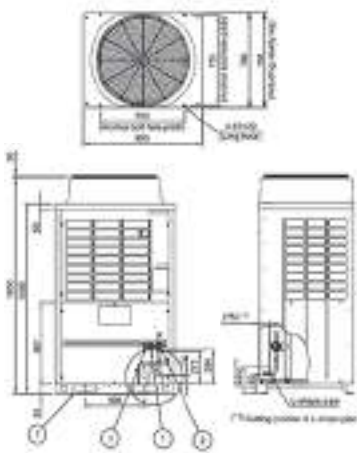
- (\*1) : (D) is outdoor unit farthest from the 1st branch and (J) is the indoor unit farthest from the 1st branch.
- (\*2) : If the height difference (H1) between indoor and outdoor unit exceeds 3 m, set 65 m or less.
- (\*3) : If the max. combined outdoor unit capacity is 54HP or more, then max. equivalent length is 70 m or less (real length is 50 m or less).
- (\*4) : If the height difference (H2) between indoor units exceeds 3 m, set 50 m or less.
- (\*5) : If the height difference (H2) between indoor units exceeds 3 m, set 30 m or less
- (\*6) : Total charging refrigerant is 140 kg or less.
- (\*7) : Extension up till 90 m is possible with conditions below

- Outdoor temperature tooling: 10 - 46 (DB)
- Heating: -5 - 15.5 (WB)
- Equivalent length of farthest piping from 1st branching Li < 50 m
- Real length of main piping L1 < 100 m
- Height difference between indoor units H2 < 3 m
- Total capacity of combined indoor units: 90% - 105%
- Single CDU, and up to 20HP
- Minimum capacity of connectable indoor: unit 4HP or larger

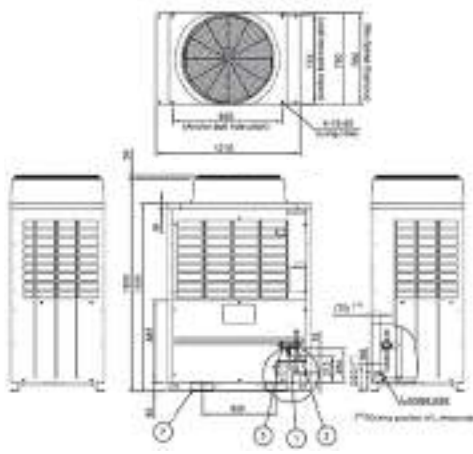
Drawings

Unit: mm

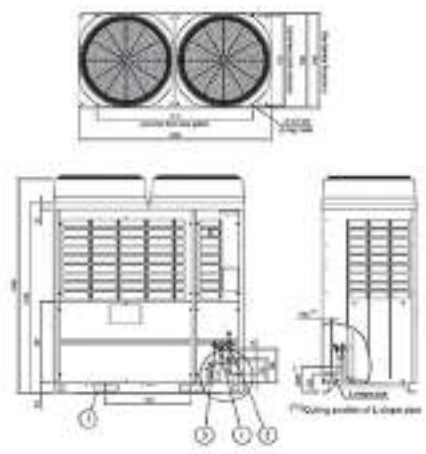
MMY-MAP0806HT8P-E  
MMY-MAP1006HT8P-E  
MMY-MAP1206HT8P-E



MMY-MAP1406HT8P-E  
MMY-MAP1606HT8P-E



MMY-MAP1806HT8P-E  
MMY-MAP2006HT8P-E  
MMY-MAP2206HT8P-E

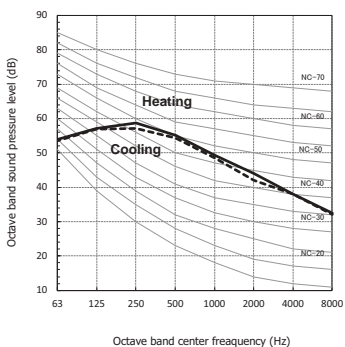


Sound pressure levels

Unit: dB(A)

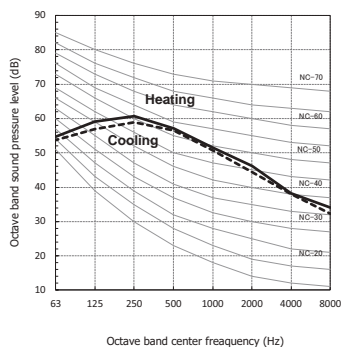
MMY-MAP0806HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	55.0	56.0



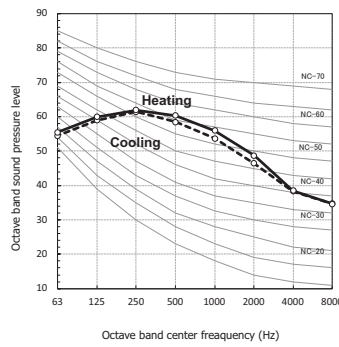
MMY-PAP1006HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	57.0	58.0



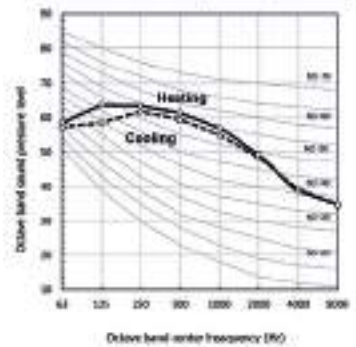
MMY-MAP1206HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	59.0	61.0



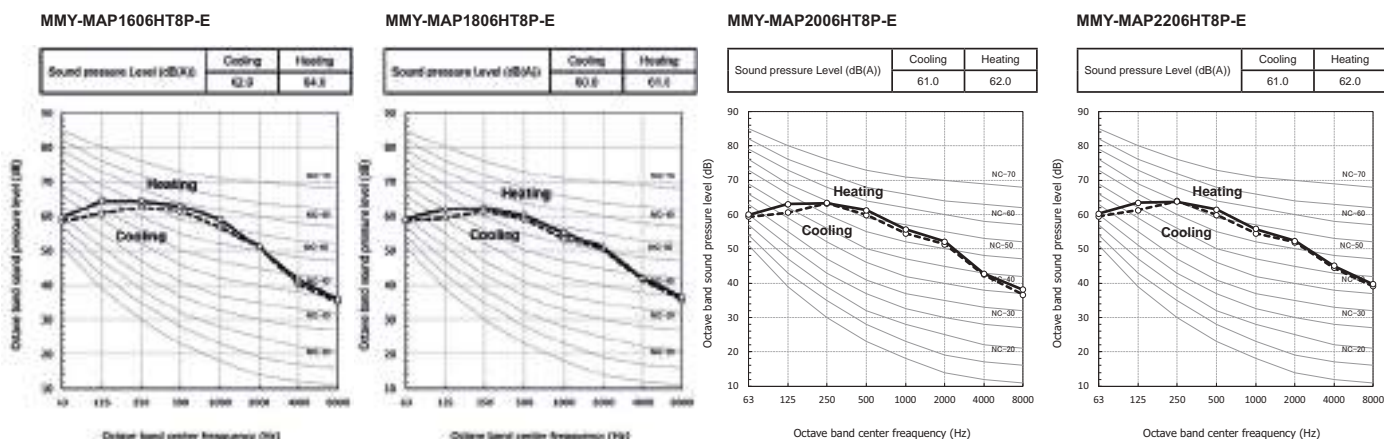
MMY-MAP1406HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	61.0	62.0



Sound pressure levels

Unit: dB(A)



Night mode sound pressure levels

Sound reduction and capacity approximation (Reference)

Type	Night operation sound reduction dB (A)	Capacity	
		Cooling	Heating
0806	50	Approx. 85%	Approx. 80%
1006	50	Approx. 70%	Approx. 65%
1206	50	Approx. 60%	Approx. 55%
1406	53	Approx. 80%	Approx. 80%
1606	53	Approx. 70%	Approx. 70%
1806	54	Approx. 65%	Approx. 65%
2006	54	Approx. 60%	Approx. 60%
2206	54	Approx. 55%	Approx. 55%

Accessories

Name	Model name	Capacity	Appearance	Remarks	
Branching joints and headers	Y-shape branching joint	RBM-BY55E	Under 6.4hp		
		RBM-BY105E	From 6.4 to 14.2hp		
		RBM-BY205E	From 14.2 to 25.2hp		
		RBM-BY305E	25.2hp or more		
	4-branching header	RBM-HY1043E	Under 14.2hp		
		RBM-HY2043E	From 14.2 to 25.2hp		
RBM-HY1083E		Under 14.2hp			
8-branching header	RBM-HY2083E	From 14.2 to 25.2hp			
	RBM-BT14E	Under 26hp			
Branching joint for connection of outdoor units	RBM-BT24E	26hp or more			
Optional PCB of outdoor unit	Power peak-cut control board	TCB-PCDM4E		Limit capacity of the VRF outdoor unit at 85%, 75%, 70% or 60% load or stop it. Dry contact	
	External master ON/OFF control board	TCB-PCMO4E		Dry contact	
	Output control board	TCB-PCIN4E		Operation output: The operation indicator is on while any indoor unit in the system is operating. Error output: The error indicator is on when an error is occurred on even one of the indoor or outdoor units in the system. Dry contact	



MMYMAP\_6FT8P  
SHRM-e



CAPACITY OPERATION



8HP > 54HP

-25°C > +46°C

The SHRM-e, full Inverter heat recovery 3-pipe VRF, is the ultimate simultaneous heating & cooling solution for business applications.

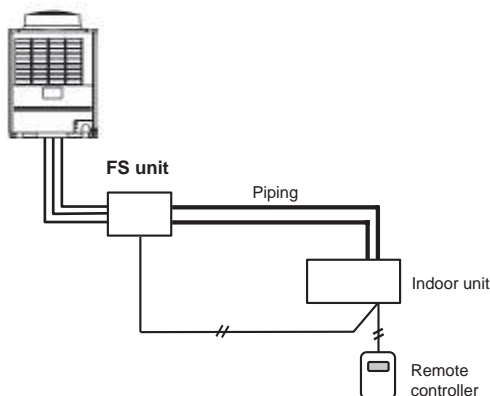
Features

Outdoor unit			MMY-	MAP0806FT8P-E	MAP1006FT8P-E	MAP1206FT8P-E	MAP1406FT8P-E	MAP1606FT8P-E	MAP1806FT8P-E	MAP2006FT8P-E
Cooling capacity <sup>1</sup>	Rated	kW		22.4	28.0	33.5	40.0	45.0	50.4	56.0
	Max	kW		22.4	28.0	33.5	40.0	45.0	50.4	56.0
Heating capacity <sup>2</sup>	Rated	kW		25.0	31.5	37.5	45.0	50.0	56.5	58.0
	Max	kW		25.0	31.5	37.5	45.0	50.0	56.5	58.0
Capacity range		HP		8	10	12	14	16	18	20
Power supply		V-ph-Hz		380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50
Efficiency	EER rated	W/W		3.76	3.51	3.43	3.14	3.23	3.15	3.01
	EER 50% load	W/W		7.32	7.035	6.162	5.666	6.233	6.79	5.091
	SEER	/std		247.6%/6.19	245.2%/6.13	240.8%/6.02	226.8%/5.67	231.2%/5.78	237.6%/5.94	227.2%/5.68
Efficiency	COP rated	W/W		4.14	3.97	3.85	3.80	3.68	3.67	3.52
	COP 50% load	W/W		5.92	5.60	5.38	5.48	5.28	5.02	4.79
	COP -7°C 100% load	W/W		3.35	3.20	3.03	3.05	2.91	2.96	2.77
	SCOP	/std		145.6%/3.64	141.6%/3.54	148.4%/3.71	142.8%/3.57	140.4%/3.51	143.6%/3.59	144%/3.60
Electrical characteristic	Running current	A	C	9.4	12.5	15.5	19.9	21.8	25.1	29.2
	Power input	kW	C	5.95	7.96	9.75	12.70	13.90	16.00	18.60
	Running current	A	H	8.6	11.1	13.8	16.5	19.1	21.5	24.7
	Power input	kW	H	5.40	7.05	8.70	10.50	12.20	13.70	15.90
Dimensions (h x w x d)		mm		1830 x 990 x 780	1830 x 990 x 780	1830 x 1210 x 780	1830 x 1210 x 780	1830 x 1600 x 780	1830 x 1600 x 780	1830 x 1600 x 780
Weight		kg		263		316		377		
Compressor	Type			Hermetic Twin Rotary						
	Motor output	kW		2.3x2	3.1x2	3.9x2	4.8x2	5.8x2	6.5x2	7.6x2
Fan unit	Type			Propeller fan						
	Motor output	W		1	1	1	1	2	2	2
	Air volume	m <sup>3</sup> /h		9700		12200		17300		17900
External static pressure available		Pa		60	60	50	40	40	40	40
R410A refrigerant charge		kg/CO <sub>2</sub> Eq		11/23	11/23	11/23	11/23	11/23	11/23	11/23
Power supply wiring	MCA	A		21.5	26.1	31	35.8	40.6	44.9	49.3
	MCOP	A		25.0	32.0	40.0	50.0	50.0	50.0	63.0
Pipe connection	Suction line type - Diameter			Brazed - 7/8"	Brazed - 7/8"	Brazed - 1-1/8"	Brazed - 1-1/8"	Brazed - 1-1/8"	Brazed - 1-1/8"	Brazed - 1-1/8"
	Discharge line type - Diameter			Brazed - 3/4"	Brazed - 3/4"	Brazed - 3/4"	Brazed - 7/8"	Brazed - 7/8"	Brazed - 7/8"	Brazed - 7/8"
	Liquid line type - Diameter			Flare - 1/2"	Flare - 1/2"	Flare - 1/2"	Flare - 5/8"	Flare - 3/4"	Flare - 3/4"	Flare - 3/4"
	Balance diameter			Flare - 3/8"	Flare - 3/8"	Flare - 3/8"	Flare - 3/8"	Flare - 3/8"	Flare - 3/8"	Flare - 3/8"
Connectivity	Max. number of connected indoor units			18	22	27	31	36	40	41
	Diversity ratio	Min/Max		50/135%						
Sound pressure level	Cooling	dB(A)	C	59	59	60	62	61	61	61
	Heating	dB(A)	H	61	61	62	64	62	62	62
Sound power level	Cooling	dB(A)	C	80	80	80	81	83	83	83
	Heating	dB(A)	H	82	82	82	83	84	84	84
Operation temperature range	Cooling	CDB	C	-10/46						
	Heating	CWB	H	-25/15.5						

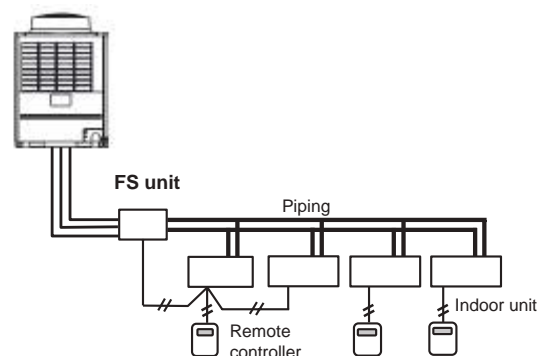
C = Cooling mode  
H = Heating mode

Installation flexibility















< In case of connecting one indoor unit >



< In case of connecting one group operation of indoor units and two indoor units >



**Capacity table - Standard models**

Capacity	Combination	Model	Cooling capacity	Heating capacity	EER	SEER	COP	SCOP	Max indoor connectivity	
8 HP	8	MMY-MAP0806FT8P-E	22.4	25	3.76	6.19	4.14	3.64	18	
10 HP	10	MMY-MAP1006FT8P-E	28	31.5	3.51	6.13	3.97	3.54	22	
12 HP	12	MMY-MAP1206FT8P-E	33.5	37.5	3.43	6.02	3.85	3.71	27	
14 HP	14	MMY-MAP1406FT8P-E	40	45	3.14	5.67	3.8	3.57	31	
16 HP	16	MMY-MAP1606FT8P-E	45	50	3.26	5.78	3.68	3.51	36	
18 HP	18	MMY-MAP1806FT8P-E	50.4	56.5	3.15	5.94	3.67	3.59	40	
20 HP	20	MMY-MAP2006FT8P-E	56	58	3.01	5.68	6.52	3.6	41	
22 HP	12 + 10	MMY-AP2216FT8P-E	61.5	69	3.47	6.07	3.9	3.64	49	
24 HP	14 + 10	MMY-AP2416FT8P-E	68	76.5	3.29	5.88	3.8	3.56	51	
26 HP	14 + 12	MMY-AP2616FT8P-E	73.5	82.5	3.27	5.84	3.83	3.64	58	
28 HP	14 + 14	MMY-AP2816FT8P-E	80	90	3.15	5.67	3.81	3.57	63	
30 HP	16 + 14	MMY-AP3016FT8P-E	85	95	3.2	5.72	3.74	3.54	64	
32 HP	18 + 14	MMY-AP3216FT8P-E	90.4	101.5	3.15	5.82	3.1	3.59	64	
34 HP	18 + 16	MMY-AP3416FT8P-E	95.4	106.5	3.19	5.86	3.68	3.55	64	
36 HP	18 + 18	MMY-AP3616FT8P-E	100.8	113	3.15	5.94	3.68	3.59	64	
38 HP	20 + 18	MMY-AP3816FT8P-E	106.4	114.5	3.08	5.81	3.59	3.6	64	
40 HP	20 + 20	MMY-AP4016FT8P-E	112	116	3.01	5.68	3.52	3.6	64	
42 HP	14 + 14 + 14	MMY-AP4216FT8P-E	120	135	3.15	5.67	3.81	3.57	64	
44 HP	16 + 14 + 14	MMY-AP4416FT8P-E	125	140	3.18	5.71	3.77	3.55	64	
46 HP	18 + 14 + 14	MMY-AP4616FT8P-E	130.4	146.5	3.15	5.78	3.76	3.58	64	
48 HP	18 + 16 + 14	MMY-AP4816FT8P-E	135.4	151.5	3.25	5.83	3.7	3.57	64	
50 HP	18 + 18 + 14	MMY-AP5016FT8P-E	140.8	158	3.21	5.88	3.7	3.59	64	
52 HP	18 + 18 + 16	MMY-AP5216FT8P-E	145.8	163	3.18	5.89	3.68	3.57	64	
54 HP	18 + 18 + 18	MMY-AP5416FT8P-E	152.1	169.5	3.15	5.94	3.68	3.59	64	



Piping rules

		Allowable value	Piping section	
Piping length	Total extension of pipe (Liquid pipe, real length)	Below 34HP	300m	
		34HP or more	1000m (*9)	
	Farthest piping length (*1) (*3)	Equivalent length	200m (*2)	LA + Lc + L1 + L3 + L4 + L5 + L6 + L7 + L8 + L9 + a + b + c + d + e + f + g + h + i + j + k + l + m + n + o + p + q + r + s + t + u
		Real length	180m	
	Equivalent length of farthest piping form 1st branching (*1)	Height difference between IDU >3 m	50m	L3 + L4 + L5 + L6 + L7 + L8 + o
		Height difference between IDU 3 m	65m	
	Equivalent length of farthest piping between outdoor units (*1)		15m	LA + Lc (LA + Lb)
	Max equivalent/real length of main piping (*12)		Height difference between IDU <3 m	L1
			Height difference between IDU >3 m	
	Max. equivalent length of outdoor unit connecting piping		10m	Lc (La, Lb)
Max. real length of indoor unit connecting piping		30m	a + f, a + g, c + h, d + i, e + j, k, l	
Max. equivalent length between branches		50m	L2, L3, L4, L8, L9	
Maximum real length of terminal branching section to indoor units		Single port type	f, g, h, i, j	
		Multi port type	p, q, r, s + t, s + u	
Difference in height	Height between indoor and outdoor units (*7)	Upper outdoor unit	70m (*8) (*13)	
		Lower outdoor unit	30m (*6)	
	Height between indoor units (*7)	Upper outdoor unit	40m	
		Lower outdoor unit (*4)	15m	
Height between outdoor units (*5)		5m		
In case of 4 series flow selector connection to indoor units	Maximum equivalent length indoor units in group control by one single port flow selector unit		30m	L6 + L7 + L8 + o
	Maximum real length between flow selector unit and indoor unit (*2)		Single port type	L7 + m 15m or L7 + L8 + n 15 m
			Multi port type	s + t, s + u 50m
	Height difference between indoor units in group control by one flow selector unit		0.5m	

- (\*1) : Farthest outdoor unit from the first branch: (C), farthest indoor unit: (o)
- (\*2) : When connecting the multiple indoor units to the single port type flow selector unit, wire the indoor unit to the remote controller to the single port type flow selection unit.
- (\*3) : Allowable values for length equivalent to furthest pipe are shown below and they vary according to performance rank of outdoor unit. 22.4 to 56.0: 180 m, 61.5 to 112: 195 m, 120: 200 m.
- (\*4) : When system capacity is greater than 28 HP, height difference between indoor units is limited to 3 m. If the piping exceeds 3 m with a capacity greater than 28 HP there may be a case of capacity shortage in cooling.
- (\*5) : Ensure that the header unit is installed below all connected follower outdoor unit(s). Possible product failure may occur if header unit is installed above any follower unit(s).
- (\*6) : 40 m is possible for a system that uses only the flow selector unit (multi port type), whose all the indoor units are 3HP or higher, and working ambient temperature is 0 °C or higher.
- (\*7) : As for 44HP to 54HP, contact our agent.
- (\*8) : If the height difference (H2) between indoor units exceed 3 m, set 50 m or less.
- (\*9) : Total charging refrigerant is 140 kg or less.
- (\*10) : The total piping length in one FS unit in case of branching to 4: 120 m (p + q + r + s + t + u). In case of branching to 6: 180 m.

- (\*11) : Length of whole pipe should be shorter than 50 m in one branch.
- (\*12) : As for 42HP to 54HP, contact our agent.
- (\*13) : Extension up till 90 m is possible with conditions below
  - Outdoor temperature cooling operation: 10 - 46 (DB)
  - Heating operation: -5 - 15.5 (WB)
  - Simultaneous operation: 7 - 25 (DB)
  - Equivalent length of farthest piping from 1st branching Li < 50 m
  - Real length of main piping L1 < 50 m
  - Height difference between indoor units H2 < 3 m
  - Height difference between FS units < 0.5 m
  - Total capacity of connectable indoor units: 90% - 100%
  - Single CDU, and up to 18HP
  - Minimum capacity of connectable indoor: unit 4HP or larger.

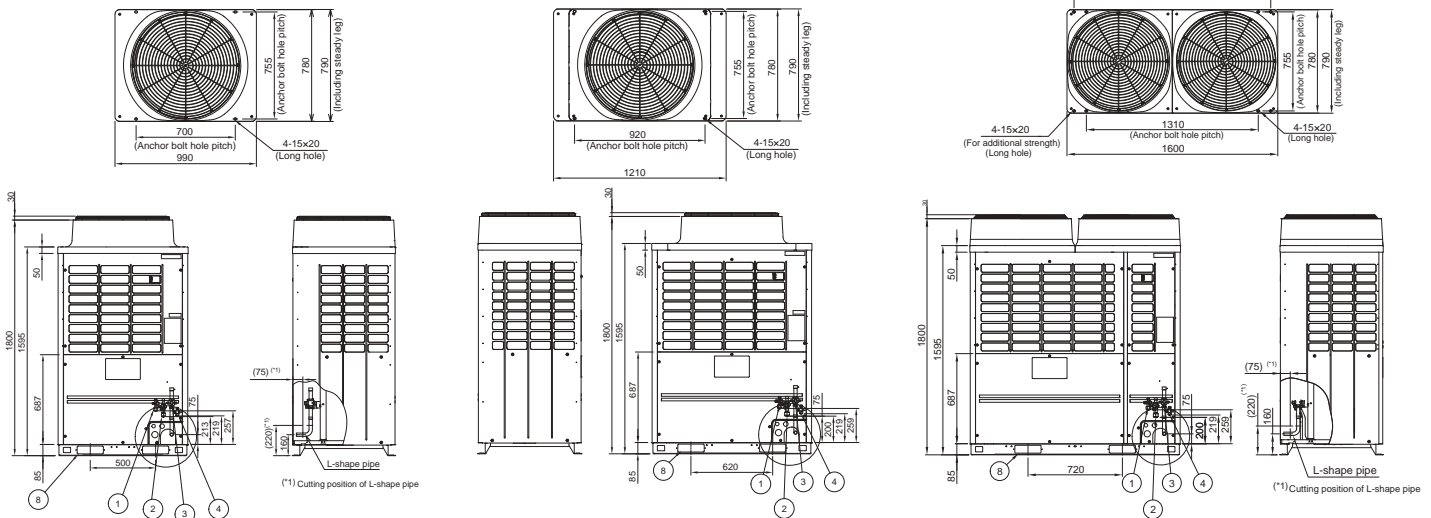
Drawings

Unit: mm

MMY-MAP0806FT8P-E  
MMY-MAP1006FT8P-E

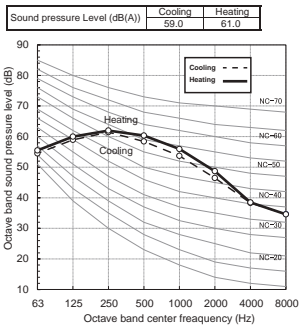
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MMY-MAP1606FT8P-E  
MMY-MAP1806FT8P-E  
MMY-MAP2006FT8P-E

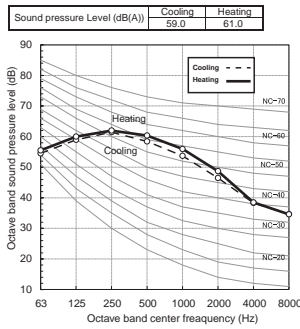


Sound pressure levels

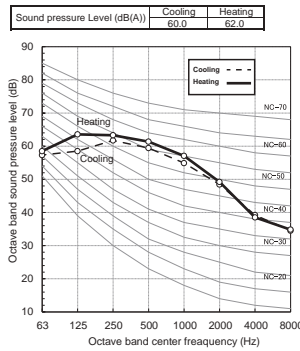
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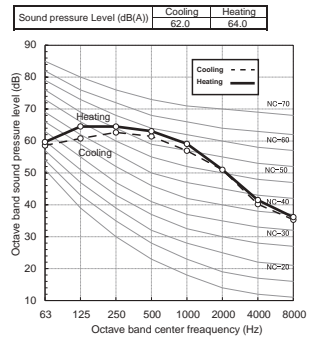
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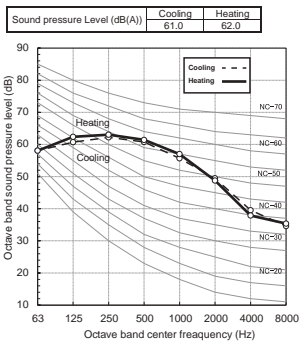
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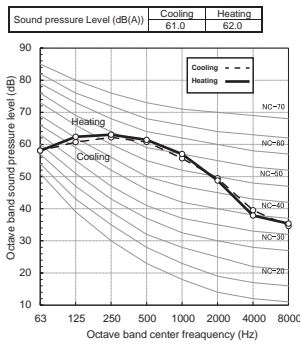
MMY-MAP1406FT8P-E



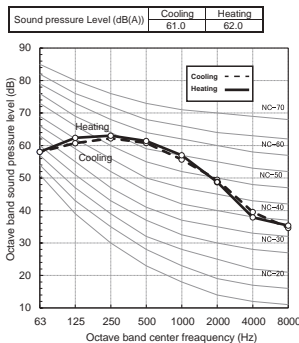
MMY-MAP1606FT8P-E



MMY-MAP1806FT8P-E



MMY-MAP2006FT8P-E



Night mode sound pressure level

Sound reduction and approximation capacity (reference)

Type	Night operation sound reduction dB (A)	Capacity	
		Cooling	Heating
0806	50	Approx. 85%	Approx. 85%
1006	50	Approx. 70%	Approx. 70%
1206	53	Approx. 80%	Approx. 80%
1406	53	Approx. 70%	Approx. 70%
1606	54	Approx. 65%	Approx. 65%
1806	54	Approx. 60%	Approx. 60%
2006	54	Approx. 55%	Approx. 55%

Accessories

	Name	Model name	Capacity	Appearance	Dimensions (mm)	Remarks
Branching joints and headers	Y-shape branching joint	RBM-BY55FE	Under 6.4hp			
		RBM-BY105FE	From 6.4 to 14.2hp			
		RBM-BY205FE	From 14.2 to 25.2hp			
		RBM-BY305FE	25.2hp or more			
	4-branching header	RBM-HY1043FE	Under 14.2hp			
		RBM-HY2043FE	From 14.2 to 25.2hp			
8-branching header	RBM-HY1083FE	Under 14.2hp				
	RBM-HY2083FE	From 14.2 to 25.2hp				
Branching joint for connection of outdoor units	RBM-BT14E	Under 26hp				
	RBM-BT24E	26hp or more				
Flow selector	3 series single output FS Box (Powered by IDUs)	RBM-Y1123FE	Under 4hp		190x320x160	1 output - From 1 to 5 IDU per output
		RBM-Y1803FE	From 4 to 6.4hp		200x470x200	1 output - From 1 to 8 IDU per output
		RBM-Y2803FE	From 6.4 to 10hp			1 output - From 1 to 8 IDU per output
	4 series single output FS Box (Up to 50m piping length from FS box to IDU)	RBM-Y1124FE	Under 4hp		180x425x300	1 output - From 1 to 6 IDU per output
		RBM-Y1804FE	From 4 to 6.4hp		180x425x350	1 output - From 1 to 10 IDU per output
		RBM-Y2804FE	From 6.4 to 10hp			1 output - From 1 to 16 IDU per output
	Multiple output	RBM-Y1801F4PE	Up to 6hp per output		215x730x567	4 outputs - From 1 to 10 IDU per output
RBM-Y1801F6PE		Up to 6hp per output	215x1050x567		6 outputs - From 1 to 10 IDU per output	
Connection accessory	RBC-CBK15FE				15m Bus cable for 3 serie FS box	
Optional PCB of outdoor unit	Power peak-cut control board	TCB-PCDM4E				limit capacity of the VRF outdoor unit at 85%, 75%, 70% or 60% load or stop it. Dry contact
	External master ON/OFF control board	TCB-PCMO4E				Dry contact
	Output control board	TCB-PCIN4E				Operation output: The operation indicator is on while any indoor unit in the system is operating. Error output: The error indicator is on when an error has occurred on even one of the indoor or outdoor units in the system. Dry contact

# WIDE CHOICE INDOOR UNITS



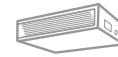
## > LARGE INDOOR UNIT LINE-UP

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 0.6 hp to 10 hp
- For heating, cooling, fresh air and hot water production



CASSETTE



DUCTED



WALL/CEILING



CONSOLE



HOT WATER  
MODULE

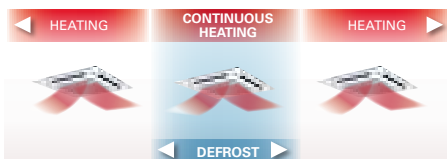


FRESH AIR  
SOLUTIONS

## > SUPERIOR AIR COMFORT

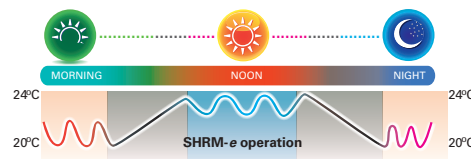
### Optimised heating operations

The Toshiba VRF allow continuous heating, even during external defrost operations, thanks to the new hot gas bypass control. 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.



### 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.

### 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 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

**INDOOR UNITS, HOT WATER & FRESH AIR SOLUTIONS**

		Basic specifications														
		Class														
		005	007	009	012	015	018	024	027	030	036	048	056	072	096	
Model type	Cooling/Heating capacity in kW	1.7 /1.9	2.2 /2.5	2.8 /3.2	3.6 /4	4.5 /5	5.6 /6.3	7.1 /8	8.0 /9	9.0 /10	11.2 /12.5	14.0 /16	16.0 /18	22.4 /25	28.0 /31.5	
	Cooling/Heating capacity in HP	0.6	0.8	1	1.25	1.7	2	2.5	3	3.2	4	5	6	8	10	
FOR EUROPE	Compact 4-way discharge cassette	MMU-AP***6MH-E	●	●	●	●	●	●								
	4-way discharge cassette	MMU-AP***4HP1-E			●	●	●	●	●	●	●	●				
	2-way discharge cassette	MMU-AP***2WH1		●	●	●	●	●	●	●	●	●	●			
	1-way discharge cassette	MMU-AP**4Y/4SH1-E		●	●	●	●	●	●							
	Slim duct	MMD-AP***4SPH1-E	●	●	●	●	●	●								
	Concealed duct	MMD-AP***6BHP1-E		●	●	●	●	●	●	●	●	●	●			
	Concealed duct high static	MMD-AP***6HP1-E					●	●	●		●	●		●	●	
	Ceiling suspended	MMC-AP***8HP-E					●	●	●	●		●	●			
	Floor-standing concealed	MML-AP***4BH1-E		●	●	●	●	●	●							
	Floor-standing cabinet	MML-AP***4H1-E		●	●	●	●	●	●							
	Bi-flow console	MML-AP***4NH1-E		●	●	●	●	●								
	Floor standing	MMF-AP***6H-E					●	●	●	●		●	●	●		
	High wall (With & without PMV)	MMK-AP***7HP-E MMK-AP***7HP-E1	●	●	●	●	●	●	●							
	Mid temperature Hot Water module	MMW-AP**1LQ-E								●			●			
	High temperature Hot Water module	MMW-AP**1CHQ-E										●				
	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-AP***1HFE										●		●	●	

**AIR TO AIR HEAT EXCHANGER**

		Basic specifications													
		Class													
		0.6	0.8	1	1.25	1.7	2	2.5	3	3.2	4	5	6	8	10
Model Type	Cooling/Heating capacity in kW	0.6	0.8	1	1.25	1.7	2	2.5	3	3.2	4	5	6	8	10
	Air flow in m³/h		150 m³/h	250 m³/h	350 m³/h	500 m³/h	650 m³/h	800 m³/h					1000 m³/h	1500 m³/h	2000 m³/h
FOR EUROPE	Air-to-air heat exchanger	VN-M**0HE	●	●	●	●	●	●					●	●	●
	A2A heat exchanger + DXcoil or + Dxcoil & Humidifier	MMD-VN***2HEXE MMD-VNK***2HEXE					●	●					●		

●:Heat pump



# MMU-AP\_MH COMPACT 4-WAY CASSETTE



The all new 7 series 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**

Side Blow & Mini SMMS-e      SMMS-e      SHRM-e

**LOCAL CONTROLS**

RBC-AX32UM(W)-E  
TCB-AX32E2      RBC-AMS55E-ES(EN)  
RBC-AMS41E  
RBC-AMT32E  
RBC-ASC11E

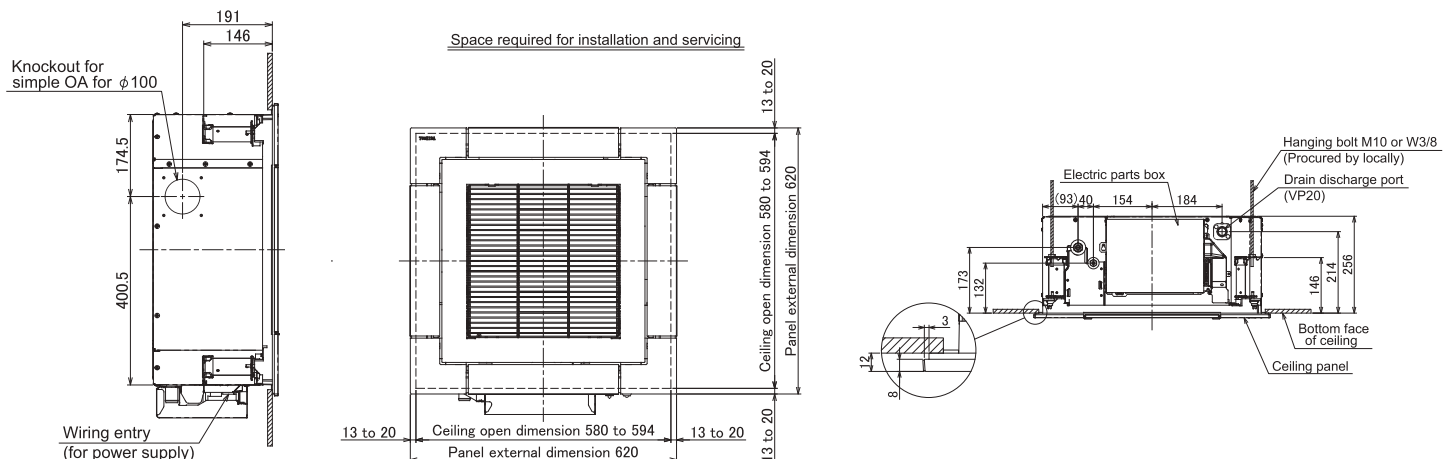
## Features

Model name		MMU-AP0057MH-E	MMU-AP0077MH-E	MMU-AP0097MH-E	MMU-AP0127MH-E	MMU-AP0157MH-E	MMU-AP0187MH-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	0.46
	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	0.019/0.052
	Starting current	A	0.28	0.41	0.43	0.44	0.50	0.80
Appearance	Main unit	Zinc hot dipping steel plate (Heat-insulating material attached to only upper plate)						
	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 unit	Fan	Turbo fan						
	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)	840(740/642/540/522)
	Motor	W	60					
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"	3/8"	1/2"	1/2"
	Liquid side	inch	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
	Drain port (Nominal dia. mm)		VP20 (Polyvinyl chloride tube)					

## Drawings

Unit: mm

### All models



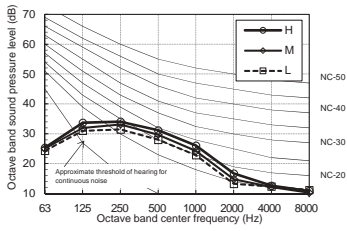
## COMPACT 4-WAY CASSETTE

### Sound pressure levels

Unit: dB(A)

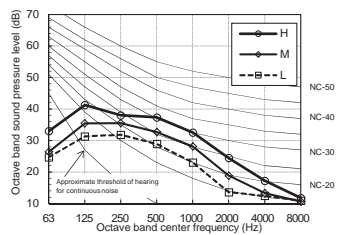
#### MMU-AP0057MH-E

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



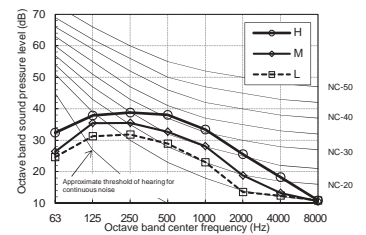
#### MMU-AP0077MH-E

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



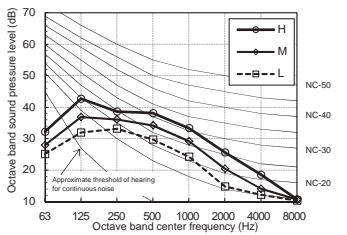
#### MMU-AP0097MH-E

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



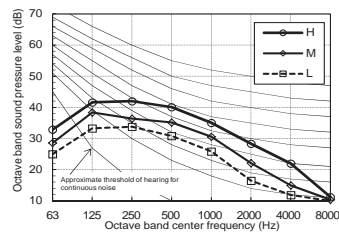
#### MMU-AP0127MH-E

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



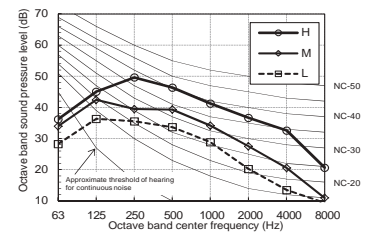
#### MMU-AP0157MH-E

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



#### MMU-AP0187MH-E

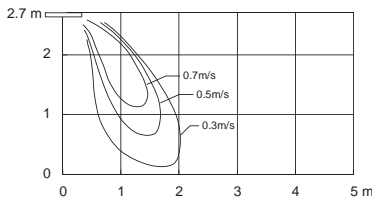
Fan tap	H	M	L
Sound pressure level (dB(A))	47	39	34



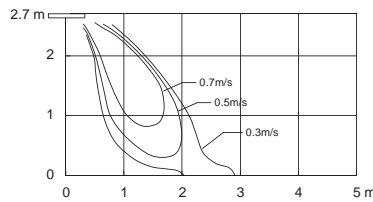
### Air diffusion

Unit: m/s

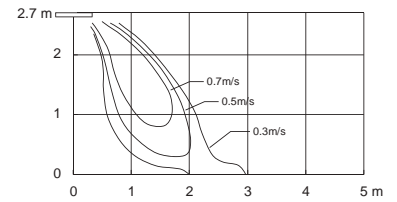
#### MMU-AP0057MH-E



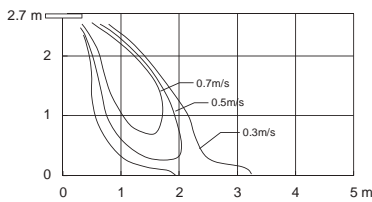
#### MMU-AP0077MH-E



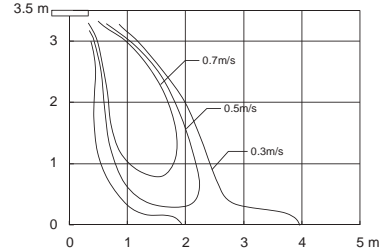
#### MMU-AP0097MH-E



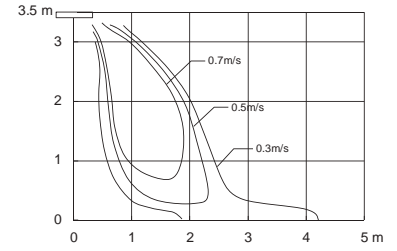
#### MMU-AP0127MH-E



#### MMU-AP0157MH-E (High ceiling mode)

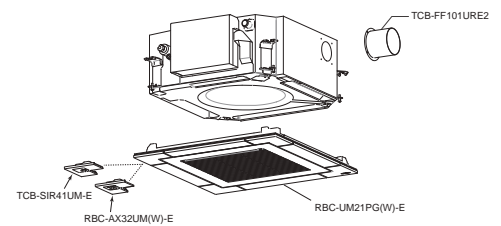


#### MMU-AP0187MH-E



### Accessories

Parts name	Model name	Applied model	Notes
Ceiling panel	RBC-UM21PG(W)-E	MMU-AP__7MH-E	Required accessory
Auxiliary fresh air flange	TCB-FF101URE2		For easy fresh air intake by using the knockout hole of indoor unit (dia=100 mm)
Wireless Remote Control kit	RBC-AX32UM(W)-E		Wireless remote control kit and occupancy sensor cannot be used on the same indoor unit
Occupancy sensor	TCB-SIR41UM-E		



### 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

# MMU-AP\_HP1 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**      **SOUND PRESSURE LEVEL**

↑     

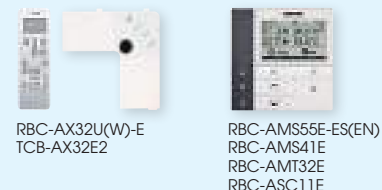
**1 HP < 6 HP**      **27dB(A)**

### OUTDOOR UNITS COMPATIBILITY



Side Blow & Mini SMMS-e      SMMS-e      SHRM-e

### LOCAL CONTROLS



RBC-AX32U(W)-E      TCB-AX32E2      RBC-AMS55E-ES(EN)  
RBC-AMS41E      RBC-AMT32E      RBC-ASC11E

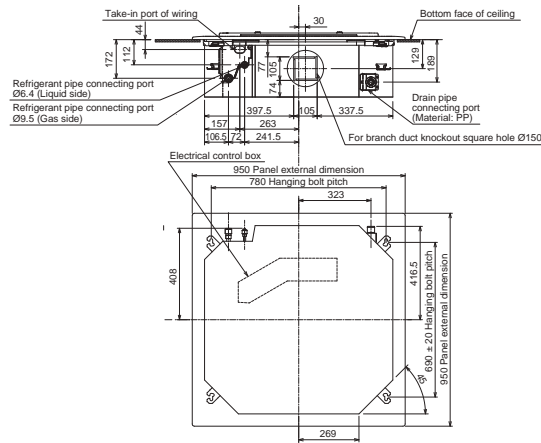
## Features

Model name	MMU-	AP0094HP1-E	AP0124HP1-E	AP0154HP1-E	AP0184HP1-E	AP0244HP1-E	AP0274HP1-E	AP0304HP1-E	AP0364HP1-E	AP0484HP1-E	AP0564HP1-E	
Capacity code	HP	1	1.3	1.7	2	2.5	3	3.2	4	5	6	
Cooling	kW	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0	
Heating	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 50Hz 230V(220V-240V) - Separate power supply for indoor units is required										
	Running current	50HZ	0.23	0.26	0.27	0.29	0.38	0.38	0.43	0.73	0.88	0.88
	Power consumption	H/M/L W	21 / 18.5 / 17.5	21 / 18.5 / 17.5	23 / 20 / 18.7	26 / 23 / 19	36 / 23 / 19	36 / 23 / 19	43 / 30 / 21	88 / 45 / 24	112 / 45 / 27	112 / 51 / 32
	Starting current	A	0.30	0.30	0.33	0.36	0.42	0.42	0.59	0.87	1.23	1.26
Appearance	Main unit	Heat-insulating material attached - Zinc hot dipping steel plate										
	Ceiling panel	Model	RBC-U31PGP(W)-E / RBC-U31PGSP(W)-E									
Outer dimensions		Panel color	White (Munsell: 2.5GY9.0/0.5)									
	Main unit	HxLxP mm	256x840x840	256x840x840	256x840x840	256x840x840	256x840x840	256x840x840	256x840x840	319x840x840	319x840x840	319x840x840
	Ceiling panel	HxLxP mm	30x950x950	30x950x950	30x950x950	30x950x950	30x950x950	30x950x950	30x950x950	30x950x950	30x950x950	30x950x950
Total weight	Main unit	kg	20	20	20	20	20	20	20	25	25	25
	Ceiling panel	kg	4	4	4	4	4	4	4	4	4	4
Heat exchanger	Finned tube											
Soundproof / Heat insulating material	Non- flammable insulation											
Fan unit	Fan	Turbo fan										
	Standard air flow	H/M/L m <sup>3</sup> /h	800/730/680	800/730/680	930/830/790	1050/920/800	1290/920/800	1290/920/800	1320/1100/850	1970/1430/1070	2130/1430/1130	2130/1520/1230
	Motor output	W	14					20			68	
Sound pressure level	H/M/L dB(A)	30/29/27	30/29/27	31/29/27	32/29/27	35/31/28	35/31/28	38/33/30	43/38/32	46/38/33	46/40/33	
Sound power level	H dB(A)	45	45	46	47	50	50	53	58	61	61	
Air filter	Long life filter											
Controller	Wired or infrared remote controller											
Connecting pipe	Gas pipe	inch	3/8"	3/8"	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"	
	Liquid pipe	inch	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	
	Drain port (Outside dia.)	mm	25 (Polyvinyl chloride tube)									

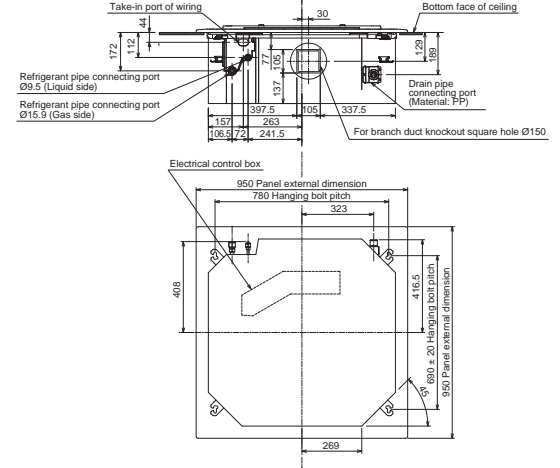
## Drawings

Unit: mm

MMU-AP0094HP1-E to MMU-AP0304HP1-E



MMU-AP0364HP1-E to MMU-AP0564HP1-E

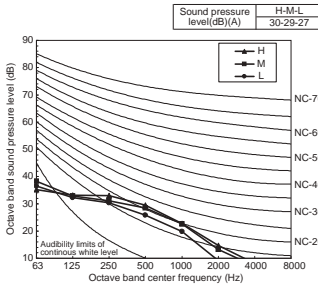


## 4-WAY CASSETTE

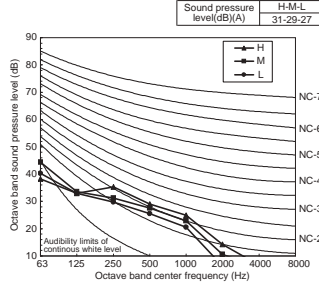
### Sound pressure levels

Unit: dB(A)

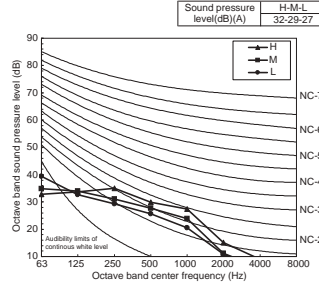
MMU-AP0094HP1-E, AP0124HP1-E



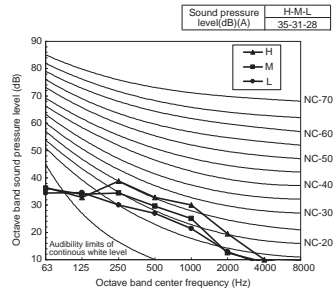
MMU-AP0154HP1-E



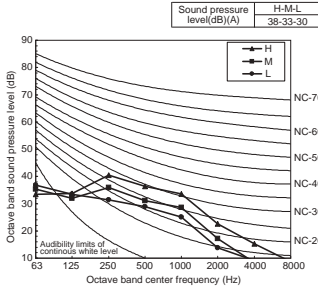
MMU-AP0184HP1-E



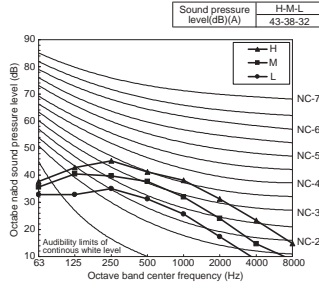
MMU-AP0244HP1-E, AP0274HP1-E



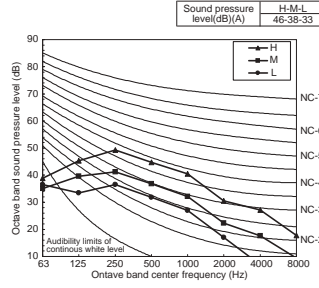
MMU-AP0304HP1-E



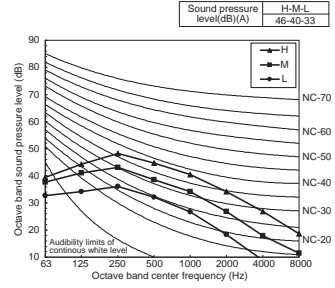
MMU-AP0364HP1-E



MMU-AP0484HP1-E



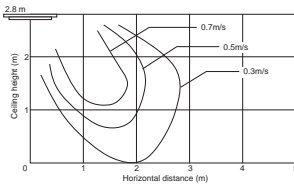
MMU-AP0564HP1-E



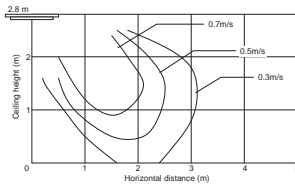
### Air diffusion

Unit: m/s

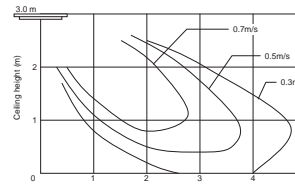
MMU-AP0094HP1-E, AP0124HP1-E



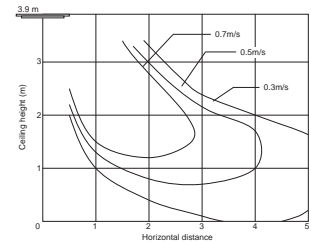
MMU-AP0154HP1-E, AP0184HP1-E



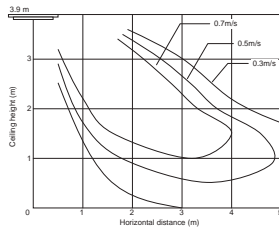
MMU-AP0244HP1-E, AP0274HP1-E, AP0304HP1-E



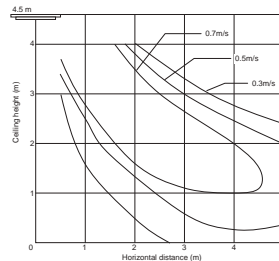
MMU-AP0364HP1-E



MMU-AP0484HP1-E, AP0564HP1-E



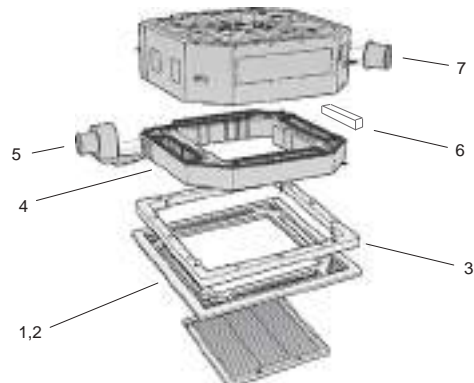
MMU-AP0364HP1-E, AP0484HP1-E, AP0564HP1-E (High ceiling 3)



### Accessories

No	Type	Model name	Qty/unit	Note
1	Ceiling Panel (Wide-flow louver)	RBC-U31PGP(W)-E	1	White (Munsell: 2.5GY9.0/0.5)
2	Ceiling Panel (Straight louver)	RBC-U31PGS(W)-E*	1	White (Munsell: 2.5GY9.0/0.5)
3	Spacer for height adjustment	TCB-SP1602UE	1	50 mm
4	Fresh air chamber	TCB-GFC1602UE	1	Use with TCB-GB1602U
5	Fresh air intake box	TCB-GB1602UE	1	Connection=Dia.100 mm fresh air intake ratio: Up to 20%
6	Air discharge direction kit	TCB-BC1602UE	1	6-direction patterns
7	Auxiliary fresh air flange	TCB-FF101URE2	1	Connection=Dia.100 mm fresh air intake ratio: Up to 5%

\* European market only



### 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
•	•	•	•	•	•

# MMU-AP\_WH1 2-WAY CASSETTE



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

CAPACITY



0.8HP < 6HP

SOUND PRESSURE LEVEL



30dB(A)

### OUTDOOR UNITS COMPATIBILITY



Side Blow & Mini SMMS-e

SMMS-e

SHRM-e

### LOCAL CONTROLS



TCB-AX32E2

RBC-AMS55E-ES(EN)  
RBC-AMS41E  
RBC-AMT32E  
RBC-ASC11E

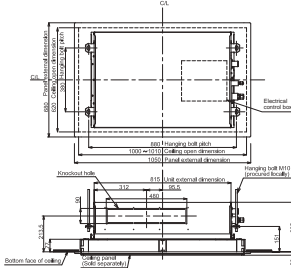
## Features

Model name		MMU-	AP0072WH1	AP0092WH1	AP0122WH1	AP0152WH1	AP0182WH1	AP0242WH1	AP0272WH1	AP0302WH1	AP0362WH1	AP0482WH1	AP0562WH1							
Capacity code	HP		0.8	1	1.3	1.7	2	2.5	3	3.2	4	5	6							
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 220V (Separate power supply for indoor units is required.)																		
	Running current 50 Hz	A	0.23	0.23	0.23	0.24	0.32	0.39	0.39	0.46	0.48	0.57	0.75							
	Power consumption H/L	kW	0.029 / 0.026	0.029 / 0.026	0.029 / 0.026	0.03 / 0.026	0.044 / 0.037	0.054 / 0.045	0.054 / 0.45	0.064 / 0.062	0.073 / 0.60	0.088 / 0.07	0.117 / 0.089							
	Starting current	A	0.35	0.35	0.35	0.36	0.48	0.59	0.59	0.69	0.72	0.86	1.13							
Appearance	Main unit	Heat-insulating material attached Zinc hot dipping steel plate																		
	Ceiling panel	Model	RBC-UW283PG(W)-E RBC-UW803PG(W)-E RBC-UW1403PG(W)-E																	
		Panel colour	Moon white_(Munsell 2.5GY9.0/0.5)																	
Outer dimensions	Main unit	HxLxP	mm				295x815x570				345x1180x570				345x1600x570					
	Ceiling panel	HxLxP	mm				20x1050x680				20x1415x680				20x1835x680					
Total weight	Main unit	kg	19	19	19	19	26	26	26	26	36	36	36							
	Ceiling panel	kg	10	10	10	10	10	14	14	14	14	14	14							
Heat exchanger	Finned tube																			
Soundproof / Heat-insulating material	Non-flammable insulation																			
Fan unit	Fan	Turbo fan																		
	Standard air flow (High/Mid/Low)	m <sup>3</sup> /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	20				30		40		50		70							
Sound pressure level (High/Mid/Low)	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 (High)	dB(A)	49				50		53		55		57		58		61				
Air filter	Standard filter (Long life filter)																			
Controller	Infrared or wired remote controller																			
Connecting pipe	Gas pipe	inch	3/8"	3/8"	3/8"	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"							
	Liquid pipe	inch	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"							
	Drain port (Nominal dia.)	mm	25 (Polyvinyl chloride tube)																	

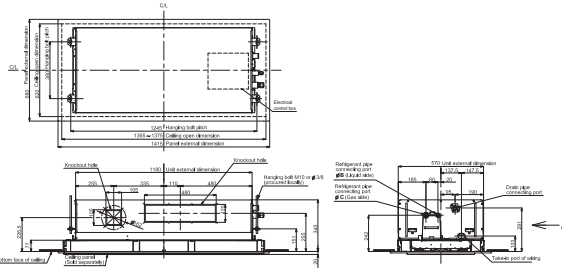
## Drawings

Unit: mm

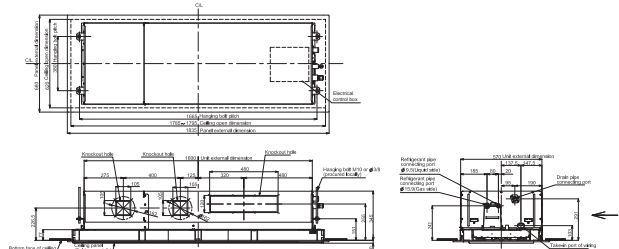
MMU-AP0072WH1 to MMU-AP0152WH1



MMU-AP0182WH1 to MMU-AP0302WH1



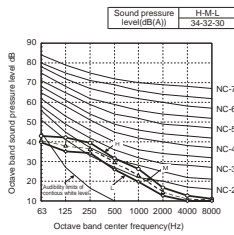
MMU-AP0362WH1 to MMU-AP0562WH1



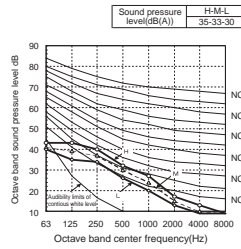
Sound pressure levels

Unit: dB(A)

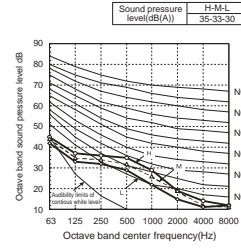
MMU-AP0072WH1, AP0092WH1, 0122WH1



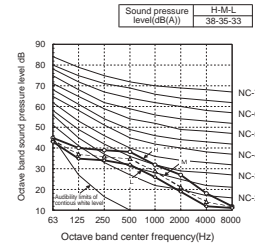
MMU-AP0152WH1



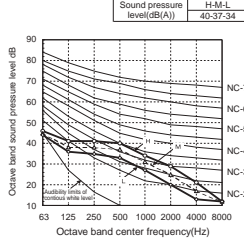
MMU-AP0182WH1



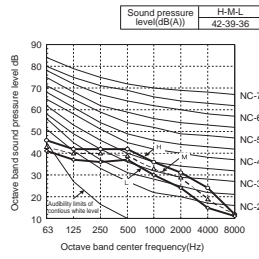
MMU-AP0242WH1, AP0272WH1



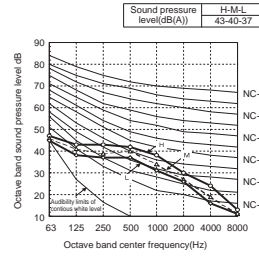
MMU-AP0302WH1



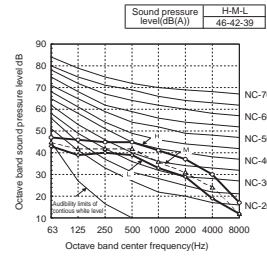
MMU-AP0362WH1



MMU-AP0482WH1



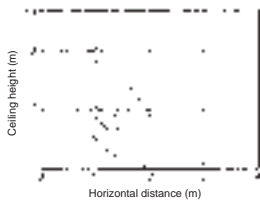
MMU-AP0562WH1



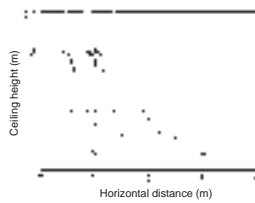
Air diffusion

Unit: m/s

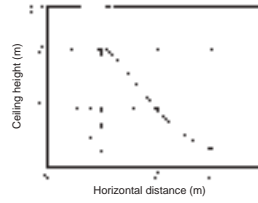
MMU-AP0072WH1, AP0092WH1, AP0122WH1, AP0152WH1



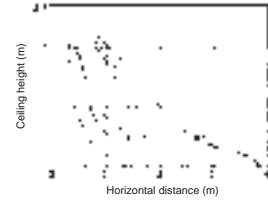
MMU-AP0182WH1



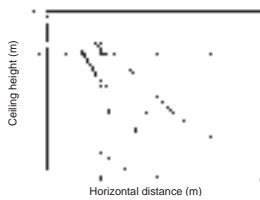
MMU-AP0242WH1, AP0272WH1



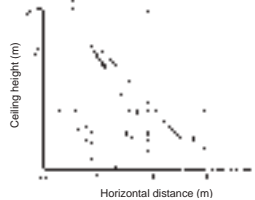
MMU-AP0302WH1



MMU-AP0362WH1, AP0482WH1

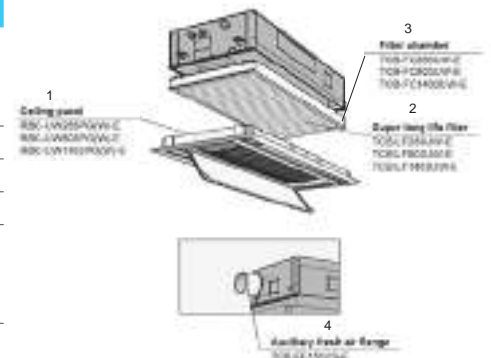


MMU-AP0562WH1



Accessories

No	Part name	Model name	Applied model	Notes	Remarks
1	Ceiling panel	RBC-UW283PG(W)-E	MMU-AP0072 to 0152WH1	Required accessory	
		RBC-UW803PG(W)-E	MMU-AP0182 to 0302WH1		
		RBC-UW1403PG(W)-E	MMU-AP0362 to 0562WH1		
2	Super long life filter	TBC-LF283UW-E	MMU-AP0072 to 0152WH1	Dust collecting effect: 50% (Weight method)	Use with TBC-FC283UW-E
		TBC-LF803UW-E	MMU-AP0182 to 0302WH1		Use with TBC-FC803UW-E
		TBC-LF1403UW-E	MMU-AP0362 to 0562WH1		Use with TBC-FC1403UW-E
3	Filter chamber	TBC-FC283UW-E	MMU-AP0072 to 0152WH1	For super long life filter	
		TBC-FC803UW-E	MMU-AP0182 to 0302WH1		
		TBC-FC1403UW-E	MMU-AP0362 to 0562WH1		
4	Auxiliary fresh air flange	TBC-FF151US-E	MMU-AP0072 to 0562WH1	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-AP\_YH1/SH1 1-WAY CASSETTE



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**  
🔊  
34dB(A)



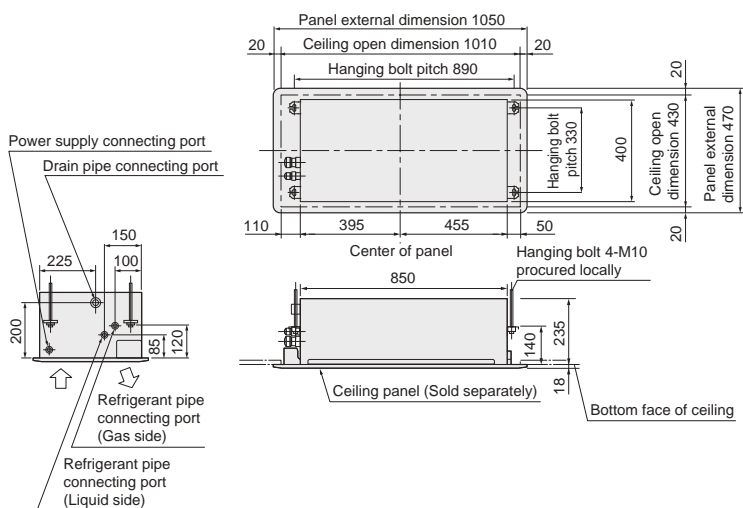
## Features

Model name	MMU-	AP0074YH1-E	AP0094YH1-E	AP0124YH1-E	AP0154SH1-E	AP0184SH1-E	AP0244SH1-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	0.24		0.34		0.37		
		60 Hz	0.26		0.35		0.39		
	Power consumption	H/L	0.053 - 0.056 / 0.043 - 0.046		0.042 - 0.041 / 0.037 - 0.036		0.046 - 0.045 / 0.041 - 0.04	0.075 - 0.073 / 0.056 - 0.054	
	Starting current	A	0.60 / 0.60		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	Model	RBC-UY135PG			RBC-US21PGE				
Panel colour		Moon white (Munsell 2.5GY9.0/0.5)							
Outer dimensions	Main unit	HxLxP	235x850x400		200x1000x710				
	Ceiling panel	HxLxP	18x1050x470		20x1230x800				
Total weight	Main unit	kg	22		21		22		
	Ceiling panel	kg	3.5		5.5				
Heat exchanger		Finned tube							
Sound proof / Heat-insulating material		Non-flammable insulation			Polyethylene foam + Expanded polyethylene				
Fan unit	Fan		Centrifugal fan						
	Standard air flow (High/Mid/Low)	m³/h	540 / 480 / 420		750 / 690 / 630		780 / 720 / 660	1140 / 960 / 810	
	Motor output	W	22		30				
Sound pressure level (High/Mid/Low)	dB(A)	42 / 39 / 34		37 / 35 / 32		38 / 36 / 34		45 / 41 / 37	
Sound power level (High)	dB(A)	57		52		53		60	
Air filter		Standard filter (Long life filter)							
Controller		Infrared or wired remote controller							
Connecting pipe	Gas pipe	inch	3/8"		3/8"		1/2"	1/2"	5/8"
	Liquid pipe	inch	1/4"		1/4"		1/4"		3/8"
	Drain port (Nominal dia.)	mm	25 (Polyvinyl chloride tube)						

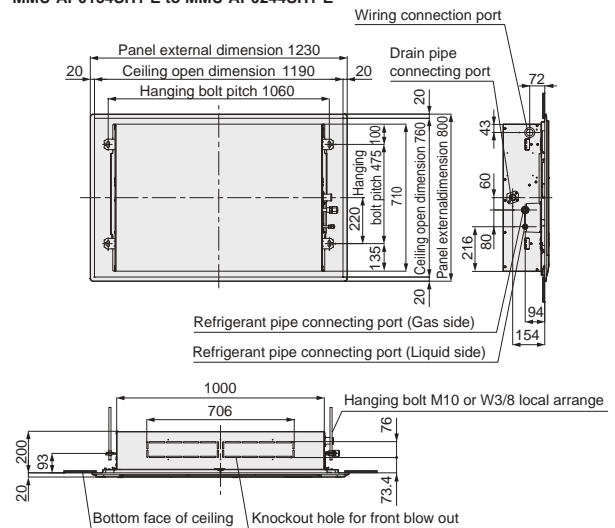
## Drawings

Unit: mm

MMU-AP0074YH1-E to MMU-AP0124YH1-E



MMU-AP0154SH1-E to MMU-AP0244SH1-E

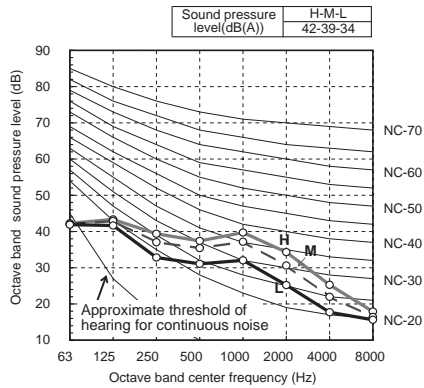


## 1-WAY CASSETTE

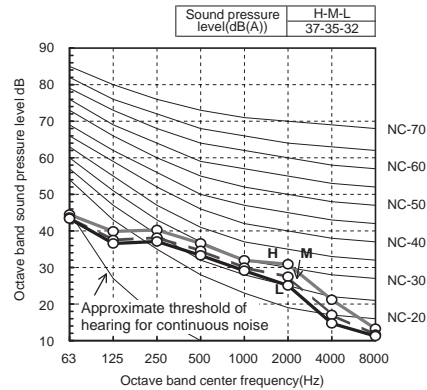
### Sound pressure levels

Unit: dB(A)

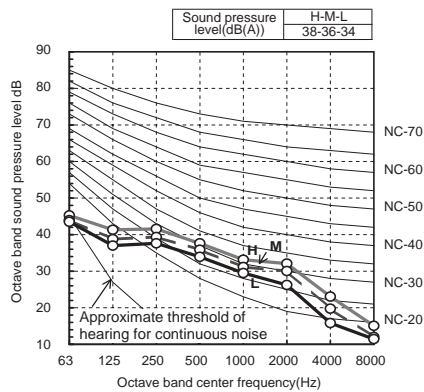
MMU-AP0074YH1-E to MMU-AP0124YH1-E



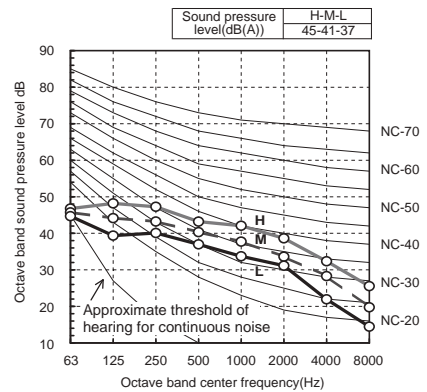
MMU-AP0154SH1-E



MMU-AP0184SH1-E



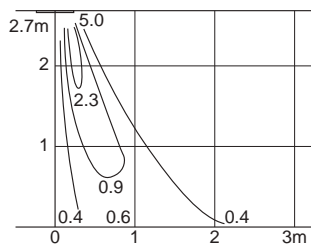
MMU-AP0244SH1-E



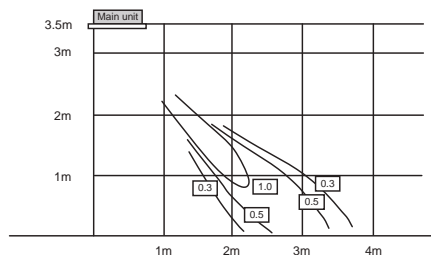
### Air diffusion

Unit: m/s

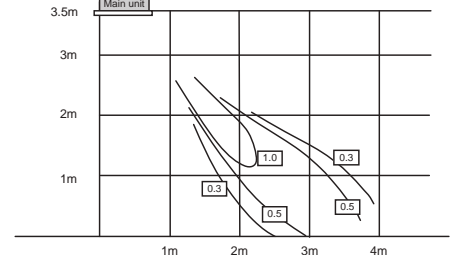
MMU-AP0074YH1-E to MMU-AP0124YH1-E



MMU-AP0154SH1-E, AP0184SH1-E

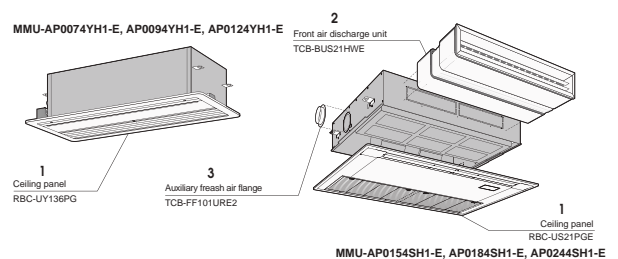


MMU-AP0244SH1-E



### Accessories

No	Part name	Model name	Applied model	Note	Remarks
1	Ceiling panel	RBC-UY136PG	MMU-AP__4YH1-E	Required accessory	
		RBC-US21PGE		Required accessory	
2	Front air discharge unit	TCB-BUS21HWE	MMU-AP__4SH1-E		
3	Auxiliary fresh air flange	TCB-FF101URE2		For easy fresh air intake by using the knockout hole of indoor unit. (dia.=100 mm)	



### 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
•	•	•	•	•	•





# MMD-AP\_BHP1 STANDARD DUCT



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

### OUTDOOR UNITS COMPATIBILITY



Side Blow & Mini SMMS-e

SMMS-e

SHRM-e

### LOCAL CONTROLS



TCB-AX32E2

RBC-AMS55E-ES(EN)  
RBC-AMS41E  
RBC-AMT32E  
RBC-ASC11E

**CAPACITY**  
↑  
**0.8HP < 6HP**

**SOUND PRESSURE LEVEL**  
  
**23dB(A)**

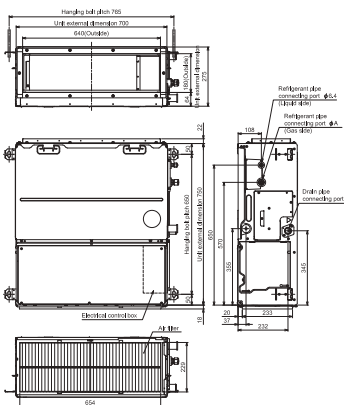
## Features

Model name	MMD-	AP0076BHP1 -E	AP0096BHP1 -E	AP0126BHP1 -E	AP0156BHP1 -E	AP0186BHP1 -E	AP0246BHP1 -E	AP0276BHP1 -E	AP0306BHP1 -E	AP0366BHP1 -E	AP0486BHP1 -E	AP0566BHP1 -E	
Capacity code	HP	0.8	1	1.3	1.7	2	2.5	3	3.2	4	5	6	
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 50 Hz 220-240 V / 1 phase 60 Hz 220 V (Separate power supply for indoor units is required.)										
	Running current	50 Hz A	0.26	0.29		0.42		0.52	0.61	1.07		1.23	
		60 Hz A	0.27	0.31		0.44		0.55	0.64	1.12		1.29	
	Power consumption	H/L kW	0.038 / 0.025	0.043 / 0.025		0.062 / 0.029		0.077 / 0.029	0.094 / 0.032	0.172 / 0.065		0.198 / 0.075	
Starting current	A	0.45 / 0.47	0.50 / 0.54		0.73 / 0.76		0.90 / 0.95	1.06 / 1.11	1.85 / 1.94		2.13 / 2.23		
Appearance	Zinc hot dipping steel plate												
Dimensions	HxLxP 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 (High / Mid. / Low)	m <sup>3</sup> /h	540 / 450 / 360	570 / 480 / 390		798 / 660 / 540		1200 / 990 / 870	1260 / 1110 / 930	1920 / 1620 / 1380		2100 / 1740 / 1500	
	Motor output	W	150					250					
	External static pressure	Pa	30 - 40 - 50 - 65 - 80 - 100 - 120 (7 steps)										
Factory setting	Pa	30					40				50		
Sound pressure level (High / Mid. / Low)	dB(A)	29 / 26 / 23	30 / 26 / 23		33 / 29 / 25		36 / 31 / 27				40 / 36 / 33		
Sound power level (High)	dB(A)	51	52		55		58				63		
Air filter	Long life filter												
Controller	Remote controller												
Connecting pipe	Gas side	inch	3/8"	3/8"	3/8"	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"	
	Liquid side	inch	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	
	Drain port (Nominal dia.)	mm	25 (Polyvinyl chloride tube)										

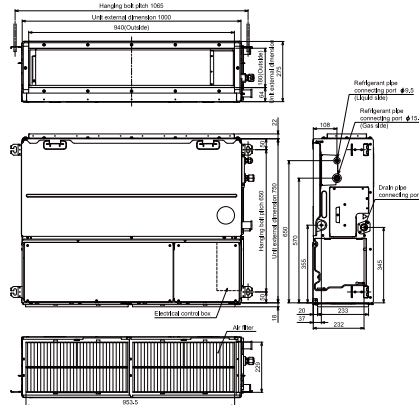
## Drawings

Unit: mm

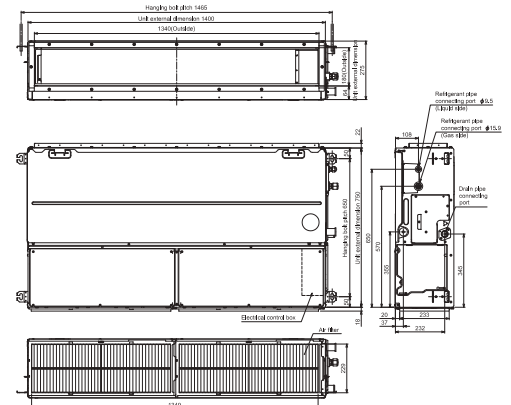
MMD-AP0076BHP1-E to MMD-AP0186BHP1-E



MMD-AP0246BHP1-E to MMD-AP0306BHP1-E



MMD-AP0366BHP1-E to MMD-AP0566BHP1-E



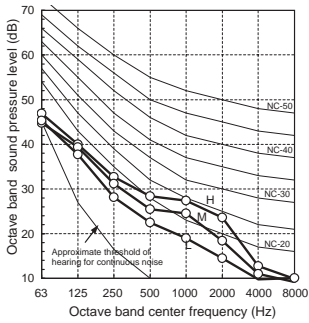
Sound pressure levels

Unit: dB(A)

MMD-AP0076BHP1-E

External static pressure 80 Pa

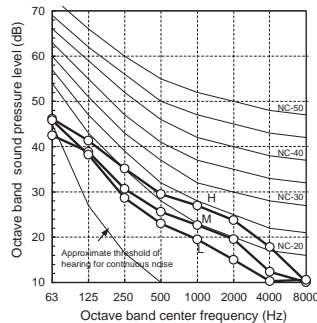
FAN tap	H	M	L
Sound pressure level (dB(A))	33	30	27



MMD-AP0096BHP1-E, MMD-AP0126BHP1-E

External static pressure 80 Pa

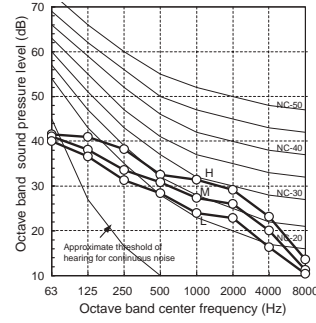
FAN tap	H	M	L
Sound pressure level (dB(A))	34	30	28



MMD-AP0156BHP1-E, MMD-AP0186BHP1-E

External static pressure 80 Pa

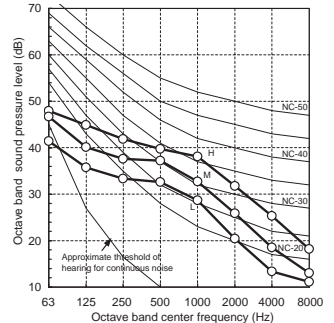
FAN tap	H	M	L
Sound pressure level (dB(A))	37	33	31



MMD-AP0246BHP1-E, MMD-AP0276BHP1-E

External static pressure 80 Pa

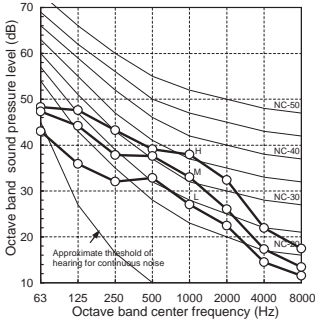
FAN tap	H	M	L
Sound pressure level (dB(A))	42	38	33



MMD-AP0306BHP1-E

External static pressure 80 Pa

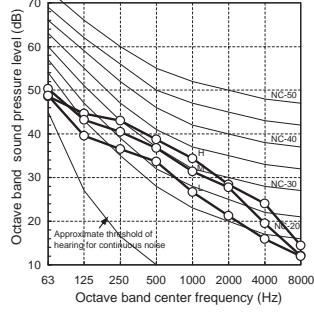
FAN tap	H	M	L
Sound pressure level (dB(A))	42	39	33



MMD-AP0366BHP1-E

External static pressure 80 Pa

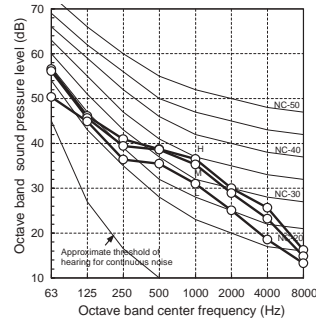
FAN tap	H	M	L
Sound pressure level (dB(A))	41	39	35



MMD-AP0486BHP1-E, MMD-AP0566BHP1-E

External static pressure 80 Pa

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



Accessories

Type	Model name	Applied model	Appearance	Remarks
Spigot shaped flange	TCB-SF56C6BE	MMD-AP0076/0096/0126/0156/0186BHP1-E		263x694x175mm / Spigot diameter 200mm
	TCB-SF80C6BE	MMD-AP0246/0276/0306BHP1-E		263x994x175mm / Spigot diameter 200mm
	TCB-SF160C6BE	MMD-AP0366/0486/0566BHP1-E		263x1394x175mm / Spigot diameter 200mm

Standard 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
•	•	•	•	•	•

Installation flexibility

Changing from back air intake to under air intake

