

MMD-UP_HFP FRESH AIR INTAKE

NEW



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

CAPACITY	AIR FLOW	SOUND PRESSURE LEVEL
5 HP < 14 HP	1,080m³/h > 3,060m³/h	31dB(A)

OUTDOOR UNITS COMPATIBILITY	LOCAL CONTROLS
 SMMS-u SMMS-e up to 10HP	 RBC-AXU31-E RBC-ASCU11-E RBC-ATM31U-E RBC-AMSU51-EN/ES

Features

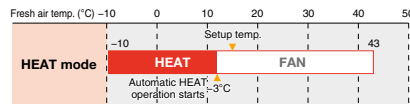
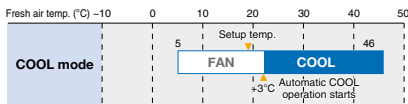
Model name	MMD-	UP0481HFP-E	UP0721HFP-E	UP0961HFP-E	UP1121HFP-E	UP1281HFP-E	
Cooling capacity (*) (Note 1)	kW	14	22,4	28	33,5	40	
Heating capacity (*) (Note 2)	kW	8,9	13,9	17,4	20,8	25,2	
Electrical characteristics	Power supply	1 phase 50Hz 230V (220-240V)					
	Running current	A	0,77	0,86	1,07	1,30	1,83
	Power consumption	kW	0,11	0,16	0,20	0,25	0,33
	Starting current	A	2,01	7,80	7,80	7,80	7,80
Dimensions	Main unit	HxWxD mm	327x1430x750	477x1430x900	477x1430x901	477x1430x902	477x1430x903
	Weight	Main unit	kg	44	99	99	99
Heat exchanger	Finned tube						
Soundproof / Heat-insulating material	Non-flammable insulation						
Fan unit	Fan	Centrifugal fan					
	Standard air flow (H/M+/M/L+/L)	m ³ /h	1080/990/930/840/760	1680/1560/1440/1320/1200	2100/1950/1800/1620/1470	2520/2340/2130/1950/1770	3060/2820/2580/2370/2130
	Motor	W	350		1000		
	External static pressure (factory default)	Pa	100				
	External static pressure	Pa	200-175-150-125-100-75-50				
Air flow limit	Lower limit	m ³ /h	600	960	1320	1500	1800
	Upper limit	m ³ /h	1320	2040	2520	3060	3600
Air filter	Option or field supply						
Controller	Wired remote controller						
Connecting pipe	Gas pipe	inch	15,9	22,2		28,6	
	Liquid pipe	inch	9,5		12,7		
	Drain pipe	mm			25		
Sound pressure level (H/M+/M/L+/L)	dB(A)	38/37/35/32/31	38/37/36/35/33	39/38/36/35/33	40/39/37/36/34	42/40/38/37/35	
Sound power level (High/Med./Low)	dB(A)	N/A	N/A	N/A	N/A	N/A	
Operation range for SMMS-u	Cooling (*) (Note 2)	°C	+5/+46 (Note 4)				
	Heating (*) (Note 3)	°C	-10/46				

* The setting temperature is 13 - 25°C (standard FCU.. 18 - 30 °C).
* Height difference between Fresh Air Intake Indoor units must be within 5 m.

Note 1 : Rated conditions
Cooling : Outdoor air temperature 33°C DB/28°C WB setting temperature 18°C
Heating : Outdoor air temperature 0°C DB/-2.9°C WB setting temperature 25°C
Note 2 : When supply air temperature is "setting temperature + 3°C" or less, Fresh Air Intake unit operates as FAN mode
Note 3 : When supply air temperature is "setting temperature -3°C" or over, Fresh Air Intake unit operates as FAN mode
Note 4 : 46-52°C is also available - but temporary operable
In case of connecting with SMMS-e for all Fresh Air Intake unit, it can use down to -5°C in heating mode

Use conditions

- In COOL mode, if temperature of the fresh air is below the setup temp. of +3°C, FAN status is automatically made. When temperature of the fresh air is below 19°C, FAN status is also made regardless of the setup temperature.
- In HEAT mode, if temperature of the fresh air is above the setup temp. -3°, FAN status is automatically made. When temperature of the fresh air is above 15°C, FAN status is also made regardless of the setup temperature.



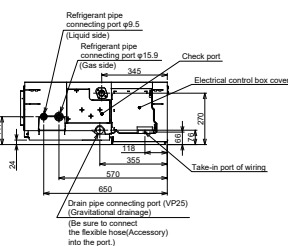
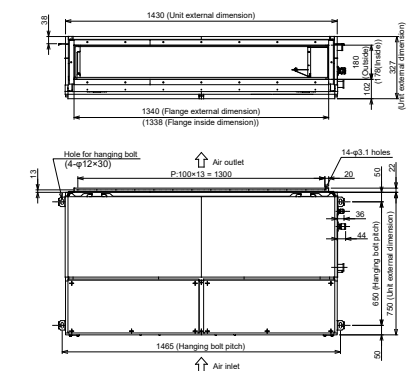
Operable mode and discharge temperature setup range

Operation mode	At shipment from factory	Setup range
COOL	18°C	13 to 25°C
HEAT	25°C	18 to 30°C

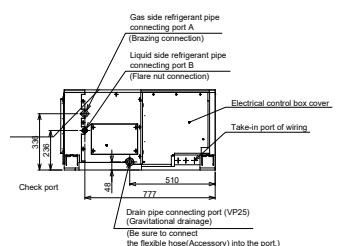
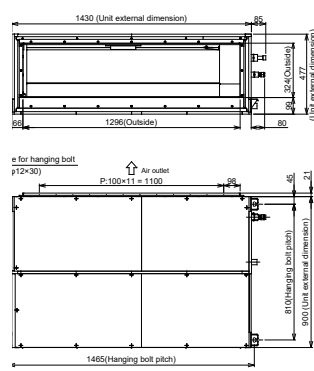
Drawings

Unit: mm

MMD-UP0481HFP-E



MMD-UP0721HFP-E to MMD-UP1281HFP-E



FRESH AIR INTAKE

Fresh air intake indoor unit type

System restriction	SMMS-e	SMMS-u	
		Multi FCU connection	All fresh air intake connection
Max. no. of combined outdoor units	1	5	5
Max. capacity of combined outdoor units	22HP	120HP	48HP
Maximum number of connected indoor units		128	-
Total capacity of combined Indoor+fresh air unit		80 to 110%	
Max. no. of combined Indoor units	3 units	4 units	

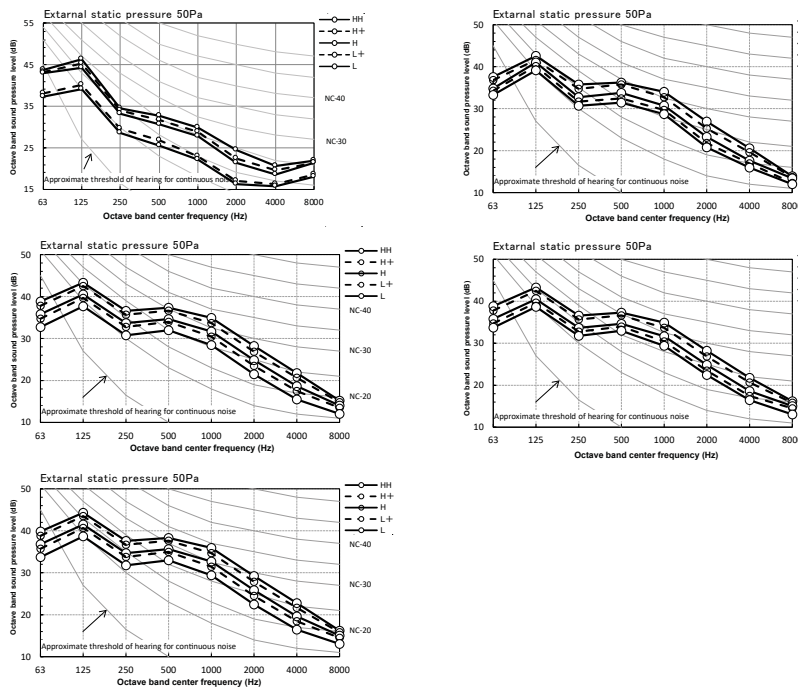
Allowable length and height difference of refrigerant piping

				Allowable value (m)			
				SMMS-e	SMMS-u		
Pipe length	Total extension of pipe (Liquid pipe)	Actual length	m	300	500/1200	500/1200	
	Farthest piping length	Equivalent length	m	150	250	250	
		Actual length	m	130	210	210	
	Main piping length	Equivalent length	m	120	120	120	
		Actual length	m	100	100	100	
		Farthest equivalent piping length from the first branching section	Equivalent length	m	30	90	90
		Maximum actual length of pipes connected to indoor units	Actual length	m	30	30	30
Height difference	Height between outdoor and indoor units	Upper outdoor units	m	40	70	70	
		Lower outdoor units	m	3	40	40	
	Height between indoor units /fresh air intake units	m	0,5	40/5	-/5		

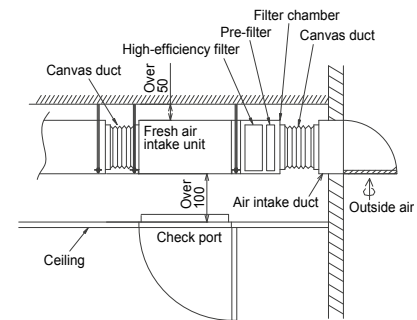
Please check technical literature

Sound pressure levels

Unit: dB(A)



Other information



Accessories

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

Fresh air duct 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
5HP	•	•	•	•	•	•
8-14HP	•	TCB-PCUC2E pcb needed	•	TCB-PCUC2E pcb needed	TCB-PCUC2E pcb needed	TCB-PCUC2E pcb needed