

FRESH AIR INTAKE

40VD-A-8S-TST



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

CAPACITY



5HP-14HP

AIRFLOW



Up to
1,080 m³/h-3,060m³/h

SOUND PRESSURE LEVEL



31dB(A)

LOCAL CONTROLS



40VCIO--8-TEE



40VCW56-8-JEE

Specifications

Model name	40VD	048A-8S-TST	072A-8S-TST	096A-8S-TST	112A-8S-TST	128A-8S-TST	
Cooling capacity (*) (Note 1)	kW	14.0	22.4	28.0	33.5	40.0	
	BTU	47,800	76,400	95,500	114,300	136,400	
Electrical characteristics	Power supply	1-phase 50Hz 220-240V/1-phase 60Hz 208-230V					
	Running current (50Hz/60Hz)	A	0.77/0.80	0.86/0.90	1.07/1.12	1.30/1.36	1.83/1.91
	Power consumption (50Hz/60Hz)	kW	0.108/0.108	0.153/0.153	0.198/0.198	0.240/0.240	0.330/0.330
	Starting current (50Hz/60Hz)	A	2.01/2.10	7.80/8.15	7.80/8.15	7.80/8.15	7.80/8.15
Dimensions (HxWxD)	mm	327x1,430x750	477x1,430x900				
Total weight	kgs	44	99				
Soundproof/Heat-insulating material	Non-flammable insulation						
Fan unit	Fan	Centrifugal fan					
	Standard airflow (H/M/L)	m ³ /h	1,080/930/760	1,680/1,440/1,200	2,100/1,800/1,470	2,520/2,130/1,770	3,060/2,580/2,130
	Motor output	W	350	1,000			
	External static pressure (Factory setting)	Pa	100				
	External static pressure	Pa	50-75-100-125-150-175-200 (7 Steps)				
	Airflow limit	Lower limit	m ³ /h	600	960	1320	1500
Upper limit		m ³ /h	1,320	2,040	2,520	3,060	3,600
Sound pressure level (H/M/L)	dB(A)	38/35/31	38/36/33	39/36/33	40/37/34	42/38/35	
Air filter	Optional or field supply						
Connecting pipe	Gas / Liquid side	mm	15.9 / 9.5	22.2 / 12.7	28.6 / 12.7	28.6 / 12.7	
	Drain port (nominal diam.)	mm	25 (Polyvinyl chloride tube)				

*The setting temperature is 13.0-25.0°C (Standard IDU: 18.0-30.0°C).

Note 1 : Rated conditions

Cooling : Outdoor air temperature 33.0°C DB/28.0°C WB, setting temperature 18.0°C.

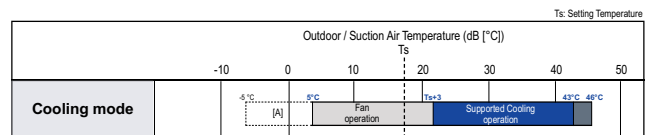
Note 2 : When supply air temperature is "setting temperature + 3.0°C" or less, Fresh Air Intake Unit operates at Fan mode.

Note 3 : When supply air temperature is "setting temperature -3.0°C" or over, Fresh Air Intake Unit operates at Fan mode.

Note 4 : 46.0-52.0°C is also available but temporarily operable.

Conditions for Use

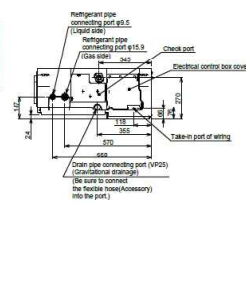
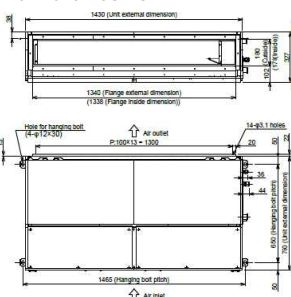
In Cool or Fan mode, if temperature of the outdoor/suction air is under 5.0°C, the operation stops automatically to protect the equipment.



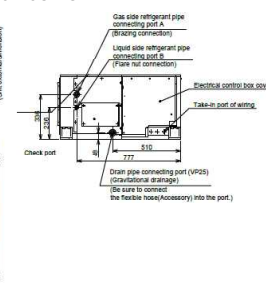
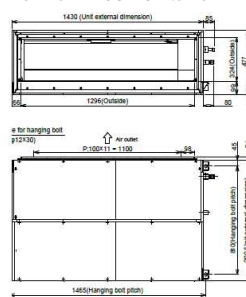
Drawings

Unit mm

40VD048A-8S-TST



40VD072A-8S-TST to 40VD128A-8S-TST



FRESH AIR INTAKE

IDU

Fresh Air Intake Indoor Unit Type

System Restriction		XCT8 Multi-IDU connections	XCT8 All Fresh Air Intake Unit connections
Maximum number of combined ODUs		5	2
Maximum capacity of combined ODUs		120HP	52HP
Maximum number of connected IDUs		128	4
Total capacity of combined IDU & Fresh Air Unit		80~110%	
Maximum number of combined IDUs		4	

Allowed Length & Height Difference of Refrigerant Piping				Allowable value (m)	
				XCT8 Multi-IDU connection	XCT8 All Fresh Air Intake Connection
Piping length	Total extension of pipe (Liquid pipe)	Actual length	m	500/1,200	300
	Farthest piping length	Equivalent/Actual length	m	250/210	230/210
	Main piping length	Equivalent/Actual length	m	120/100	120/100
	Farthest equivalent piping length from the first branching section	Equivalent length	m	90	90
	Maximum actual length of pipes connected to indoor units	Actual length	m	30	30
	Maximum equivalent length between branching sections	Equivalent length	m	50	50
Height difference	Height between outdoor and indoor units	Upper/Lower outdoor unit	m	70/40	70/40
	Height between indoor units/Fresh Air Intake units		m	40	5

Accessories

No.	Part name	Model name	Applied model	Appearance	Notes
1	High-efficiency filter 65	TCB-UFM0481D-E	40VD048A-8S-TST		4 units for 1 FCU
2	High-efficiency filter 65	TCB-UFM1281D-E	40VD072 to 128A-8S-TST		
3	High-efficiency filter 90	TCB-UFH0481D-E	40VD048A-8S-TST		4 units for 1 FCU
4	High-efficiency filter 90	TCB-UFH1281D-E	40VD072 to 128A-8S-TST		
5	Stand-alone long-life pre filter	TCK-LK1401D-E	40VD048A-8S-TST		
6	Stand-alone long-life pre filter	TCK-LK2801DP-E	40VD072 to 128A-8S-TST		
7	High-efficiency long-life pre filter	TCK-LK1401D-E	40VD048A-8S-TST		
8	High-efficiency long-life pre filter	TCK-PF1281DF-E	40VD072 to 128A-8S-TST		
9	Filter chamber	TCB-FC0481DF-E	40VD048A-8S-TST		
10	Filter chamber	TCB-FC1281DF-E	40VD072 to 128A-8S-TST		
11	Drain pump kit	TCB-DP40DFP-E	All Models		048 included
12	Wireless remote controller	40VCI0--8-TEE	40VD-A-8S-TST		For installing as stand-alone

Fresh Air Intake Connectors

• : Available

	CN32	CN60	CN61	CN70	CN73	CN80
	Additional ventilation control from remote control	Operation status signal output (cooling, fan, thermo-on)	External On/Off, operation output and alarm output	Warning symbol on remote control based on signal input	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 required	•	TCB-PCUC2E PCB required	TCB-PCUC2E PCB required	TCB-PCUC2E PCB required