MITSUBISHI HEAVY INDUSTRIES AIR CONDITIONING EUROPE

FDT100VNPWVH

10.0 (2.1 ~ 10.2)



Indoor Unit : FDT100VH



Outdoor Unit : FDC100VNP-W

R32

Specifications

Indoor unit				FDT100VH
Outdoor unit				FDC100VNP-W
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz
Nominal cooling capacity (Min~Max)			kW	10.0 (2.1 ~ 10.2)
Nominal heating capacity (Min~Max)			kW	10.0 (1.7 ~ 10.4)
Power consumption		Cooling/Heating	kW	2.84 / 2.33
EER/COP		Cooling/Heating		3.52 / 4.29
Inrush current			A	5
Max. running current			A	19
Sound power level*1	Indoor	Cooling/Heating	dB(A)	62 / 62
	Outdoor	Cooling/Heating		68 / 67
Sound pressure level*1	Indoor	Cooling (Hi/Me/Lo/Ulo)		47 / 39 / 36 / 30
		Heating (Hi/Me/Lo/Ulo)		47 / 39 / 36 / 29
	Outdoor	Cooling/Heating		56 / 54
Air flow	Indoor	Cooling (Hi/Me/Lo/Ulo)	m^3/min	37 / 26 / 23 / 17
		Heating (Hi/Me/Lo/Ulo)		37 / 26 / 23 / 17
	Outdoor	Cooling/Heating		75 / 79
Exterior Dimensions	Indoor	Height x Width x Depth	mm	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950
	Outdoor			845 x 970 x 370
Net weight	Indoor / Outdoor		kg	30(Unit:25 Standard Panel:5) / 57
Refrigerant		Type/GWP		R32/675
Refrigerant		Charge	kg/TCO2Eq	1.7/1.148
Refrigerant piping size		Liquid/Gas	ø inch	6.35(1/4") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.30
Vertical height differences		Outdoor is higher/lower	m	Max.20 / Max.20
Outdoor operating temperature range		Cooling*2	°C	-15~46
		Heating		-15~20
Panel				T-PSA-5BW-E, T-PSAE-5BW-E (White) / T-PSA-5BB-E, T-PSAE-5BB-E (Black)
Air filter quantity				Pocket Plastic net x 1(Washable)
Remote control (option)				wired: RC-EX3A, RC-E5, RCH-E3 wireless: RCN-T-5BW-E2, RCN-T-5BB-E2
Energy Class (Cooling/Heating)				A++/A+
SEER				7.08
SCOP (Average climate)				4.53
Pdesign (cooling/heating(@-10°C))			kW	10.0/6.4
Annual Electricity Consumption (cooling/heating)			kWh/a	495/1977
Designated Heating Season				Average

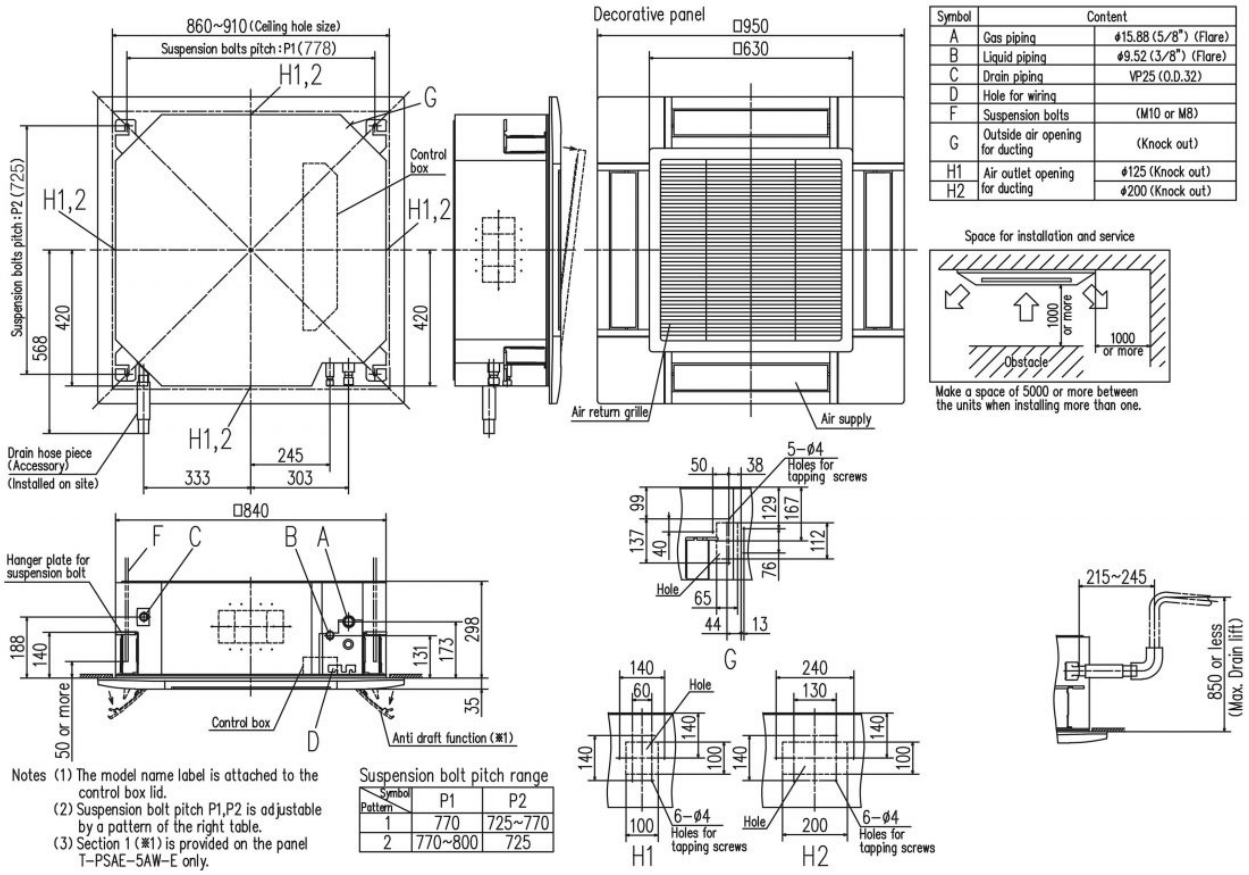
The data is measured under the following conditions (R32 : ISO-T1, -H1 /, R410A : ISO-T1).
Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

1. : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
2. : If a cooling operation is conducted when the outdoor air temperature is –5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

Because of our policy of continuous improvement, we reserve the right to make changes in all specifications without notice.

Schematics

Models FDT100VH, 125VH, 140VH



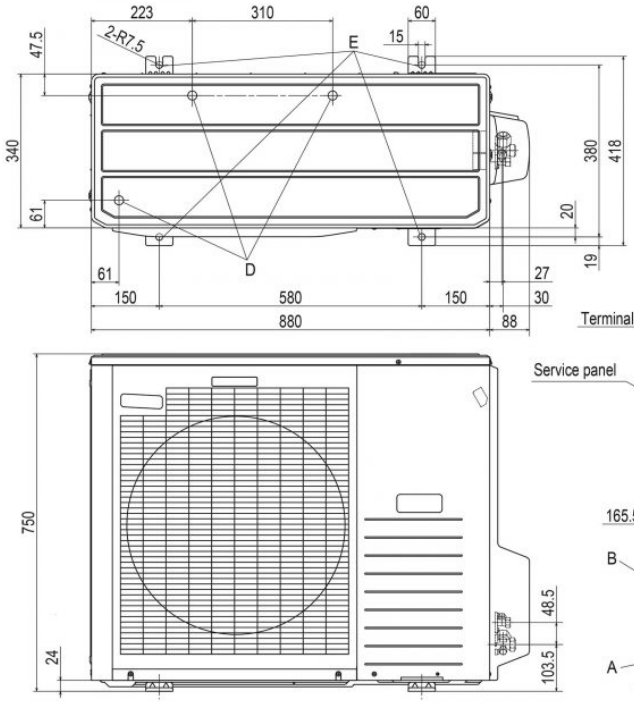
Symbol	Content	
A	Gas piping	ø15.88 (5/8") (Flare)
B	Liquid piping	ø9.52 (3/8") (Flare)
C	Drain piping	VP25 (O.D.32)
D	Hole for wiring	
F	Suspension bolts	(M10 or M8)
G	Outside air opening for ducting	(Knock out)
H1	Air outlet opening for ducting	ø125 (Knock out)
H2		ø200 (Knock out)

Notes (1) The model name label is attached to the control box lid.
(2) Suspension bolt pitch P1,P2 is adjustable by a pattern of the right table.
(3) Section 1 (※1) is provided on the panel T-PSAE-5AW-E only.

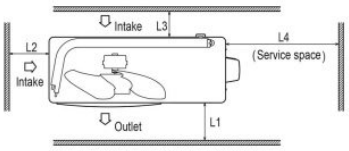
Suspension bolt pitch range

Symbol / Pattern	P1	P2
1	770	725~770
2	770~800	725

FDC90VNP-W, 100VNP-W
FDC90VNP1



Notes
(1) It must not be surrounded by walls on four sides.
(2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
(3) Where the unit is subjected to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
(4) Leave 1m or more space above the unit.
(5) A wall in front of the blower outlet must not exceed the unit's height.
(6) The model name label is attached on the lower right corner of the front panel.



Minimum installation space

Dimensions \ Examples of installation	I	II	III
L1	Open	Open	500
L2	300	250	Open
L3	100	150	100
L4	250	250	250

Symbol	Content	
A	Service valve connection(gas side)	φ 15.88(5/8")(Flare)
B	Service valve connection(liquid side)	φ 6.35(1/4")(Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	φ20 x 3 places
E	Anchor bolt hole	M10 x 4 places

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