MITSUBISHI HEAVY INDUSTRIES AIR CONDITIONING EUROPE

FDE100VNAVH

10.0 (4.0 ~ 11.2)

Indoor Unit : FDE100VH

Outdoor Unit : FDC100VNA

R410A

Specifications

Indoor unit				FDE100VH
Outdoor unit				FDC100VNA
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)
Power consumption		Cooling/Heating	kW	2.85 / 2.70
EER/COP		Cooling/Heating		3.51 / 4.15
Inrush current			A	5
Max. running current			A	24
Sound power level*1	Indoor	Cooling/Heating	dB(A)	64 / 64
	Outdoor	Cooling/Heating		70 / 70
Sound pressure level*1	Indoor	Cooling (Hi/Me/Lo/Ulo)		48 / 43 / 38 / 34
		Heating (Hi/Me/Lo/Ulo)		48 / 43 / 38 / 34
	Outdoor	Cooling/Heating		54 / 56
Air flow	Indoor	Cooling (Hi/Me/Lo/Ulo)	m^3/min	32 / 26 / 21 / 16.5
		Heating (Hi/Me/Lo/Ulo)		32 / 26 / 21 / 16.5
	Outdoor	Cooling/Heating		75 / 73
Exterior Dimensions	Indoor	Height x Width x Depth	mm	250 x 1,620 x 690
	Outdoor			845 x 970 x 370
Net weight	Indoor / Outdoor		kg	43 / 80
Refrigerant		Type/GWP		R410A/2088
Refrigerant		Charge	kg/TCO2Eq	3.8/7.934
Refrigerant piping size		Liquid/Gas	mm (ø inch)	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.50
Vertical height differences		Outdoor is higher/lower	m	Max.50 / Max.15
Outdoor operating temperature range		Cooling*2	°C	-15~50
		Heating		-20~20
Air filter quantity				Pocket Plastic net x2(Washable)
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3
Energy Class (Cooling/Heating)				A++/A+
SEER				6.35
SCOP (Average climate)				4.31
Pdesign (cooling/heating(@-10°C))			kW	10.0/8.5
Annual Electricity Consumption (cooling/heating)			kWh/a	552/2763
Designated Heating Season				Average

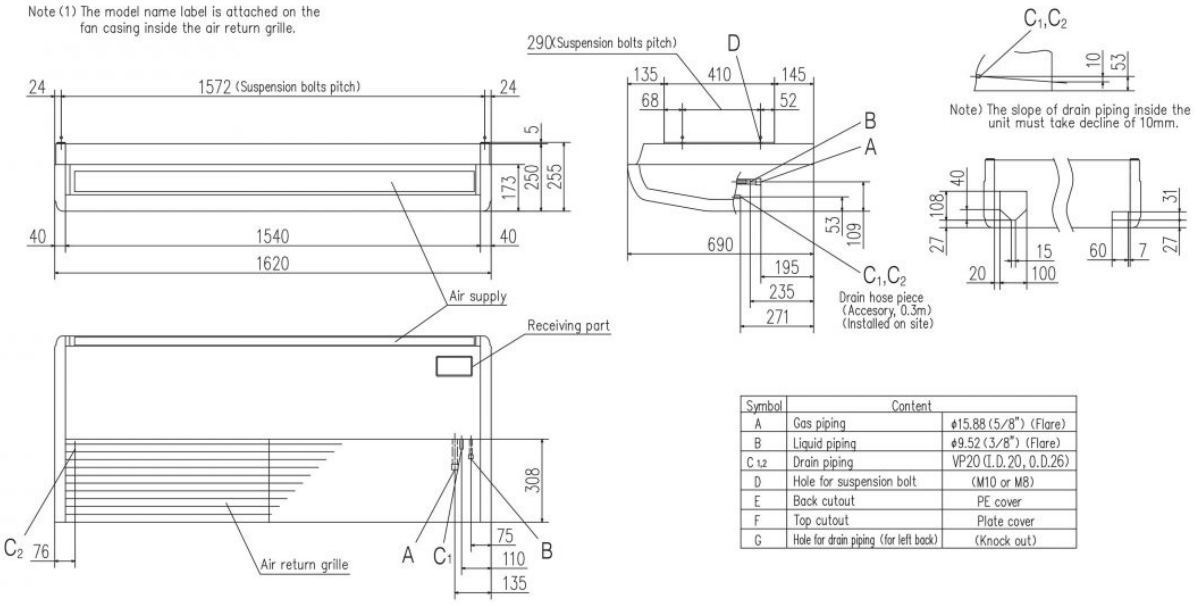
The data is measured under the following conditions (R32 : ISO-T1, -H1 /, R410A:ISO-T1).
Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

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.
3. : The values are for one indoor unit operation. (Multi system only)

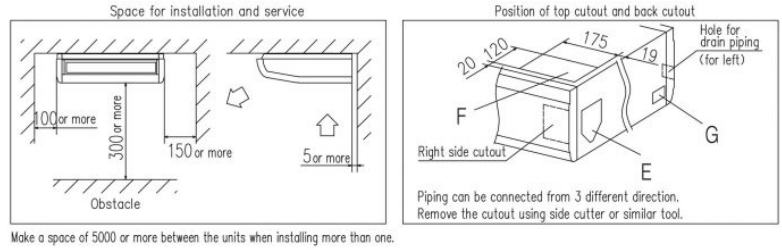
Because of our policy of continuous improvement, we reserve the right to make changes in all specifications without notice.

Schematics

Models FDE100VH, 125VH, 140VH



Symbol	Content	
A	Gas piping	ϕ15.88 (5/8") (Flare)
B	Liquid piping	ϕ9.52 (3/8") (Flare)
C 1,2	Drain piping	VP20 (I.D.20, O.D.26)
D	Hole for suspension bolt	(M10 or M8)
E	Back cutout	PE cover
F	Top cutout	Plate cover
G	Hole for drain piping (for left back)	(Knock out)

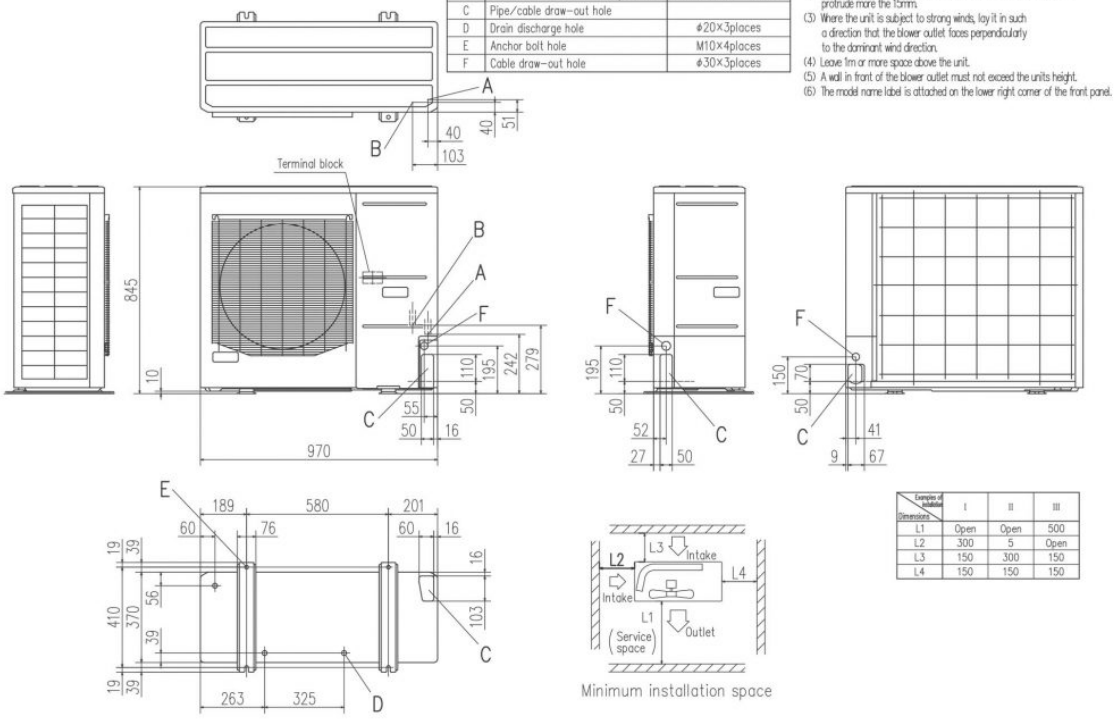


Make a space of 5000 or more between the units when installing more than one.

FDC100VNA, 125VNA, 140VNA
100VSA, 125VSA, 140VSA

Symbol	Content	
A	Service valve connection (gas side)	ϕ15.88 (5/8") (Flare)
B	Service valve connection (liquid side)	ϕ9.52 (3/8") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ϕ20×3places
E	Anchor bolt hole	M10×4places
F	Cable draw-out hole	ϕ30×3places

Notes
(1) It must not be surrounded by walls on the four sides.
(2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more the 15mm.
(3) Where the unit is subject 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 units height.
(6) The model name label is attached on the lower right corner of the front panel.



Examples of installation / Dimensions	I	II	III
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	150	150	150