MITSUBISHI HEAVY INDUSTRIES AIR CONDITIONING EUROPE

FDUM100VNAVH

10.0 (4.0 ~ 11.2)

Indoor Unit : FDUM100VH

Outdoor Unit : FDC100VNA

R410A

Specifications

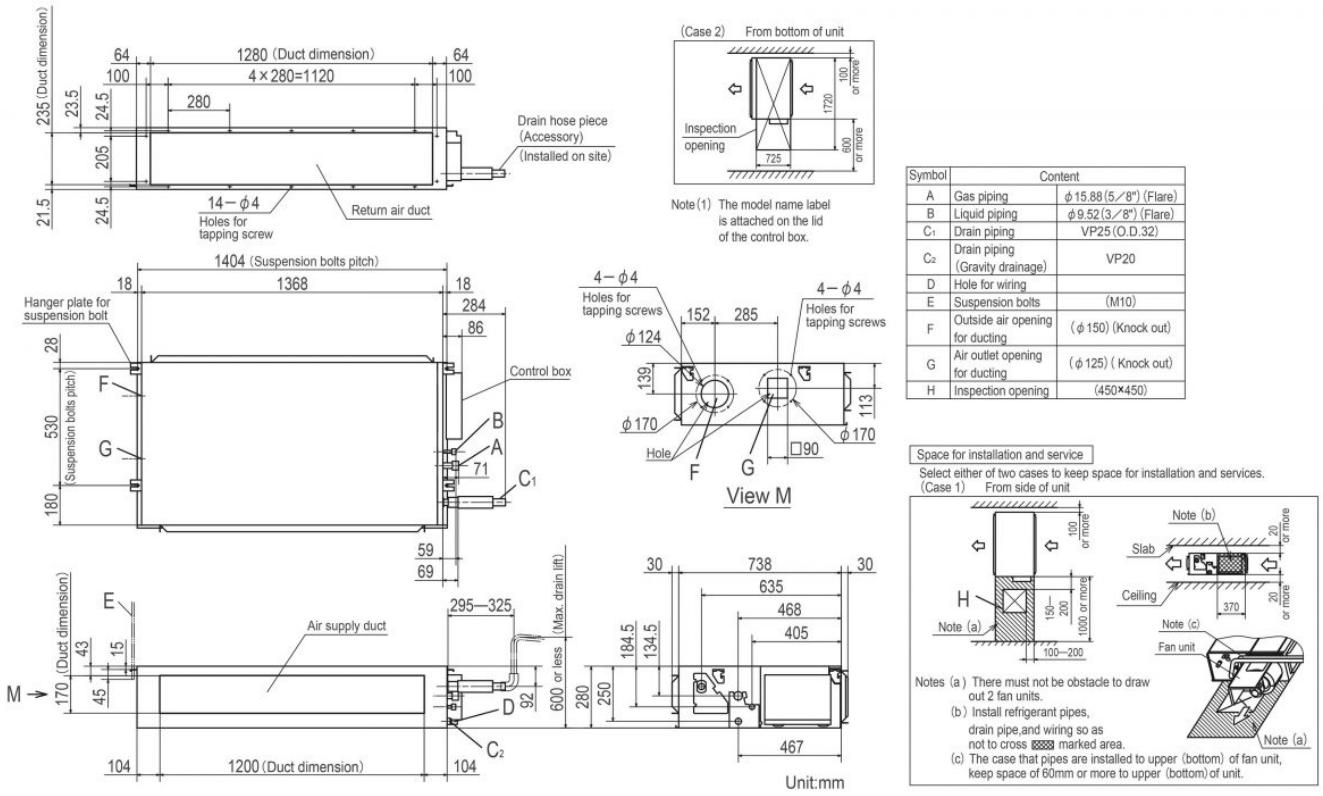
Indoor unit				FDUM100VH
Outdoor unit				FDC100VNA
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)
Power consumption		Cooling/Heating	kW	2.84 / 2.78
EER/COP		Cooling/Heating		3.52 / 4.03
Inrush current			A	5
Max. running current			A	26
Sound power level*1	Indoor *3	Cooling/Heating	dB(A)	65 / 65
	Outdoor	Cooling/Heating		70 / 70
Sound pressure level*1	Indoor *3	Cooling (Hi/Me/Lo/Ulo)		44 / 38 / 36 / 30
		Heating (Hi/Me/Lo/Ulo)		44 / 38 / 36 / 30
	Outdoor	Cooling/Heating		54 / 56
Air flow	Indoor *3	Cooling (Hi/Me/Lo/Ulo)	m^3/min	36 / 28 / 25 / 19
		Heating (Hi/Me/Lo/Ulo)		36 / 28 / 25 / 19
	Outdoor	Cooling/Heating		75 / 73
Available external static pressure			Pa	Standard:60 Max:100
Exterior Dimensions	Indoor	Height x Width x Depth	mm	280 x 1,370 x 740
	Outdoor			845 x 970 x 370
Net weight	Indoor / Outdoor		kg	54 / 80
Refrigerant		Type/GWP		R410A/2088
Refrigerant		Charge	kg/TCO2Eq	3.8/7.934
Refrigerant piping size		Liquid/Gas	ø mm	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				(Option) Filter kit : UM-FL3EF
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2
Energy Class (Cooling/Heating)				A++/A+
SEER				6.11
SCOP (Average climate)				4.19
Pdesign (cooling/heating(@-10°C))			kW	10.0/8.5
Annual Electricity Consumption (cooling/heating)			kWh/a	573/2844
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. : External static pressure is changeable to be set by the remote control. MAX external static pressure is ''High static pressure'' setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 200Pa
3. : 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.
4. : The values are for one indoor unit operation. (Multi system only)
5. : In case of following conditions:Max.50m(Outdoor unit is higher & Outdoor temperature 43°C), Max.30m(Outdoor unit is higher & Outdoor temperature > 43°C).

Schematics

Models FDUM100VH,125VH,140VH



Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C1	Drain piping	VP25 (O.D.32)
C2	Drain piping (Gravity drainage)	VP20
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(φ150) (Knock out)
G	Air outlet opening for ducting	(φ125) (Knock out)
H	Inspection opening	(450×450)

Space for installation and service

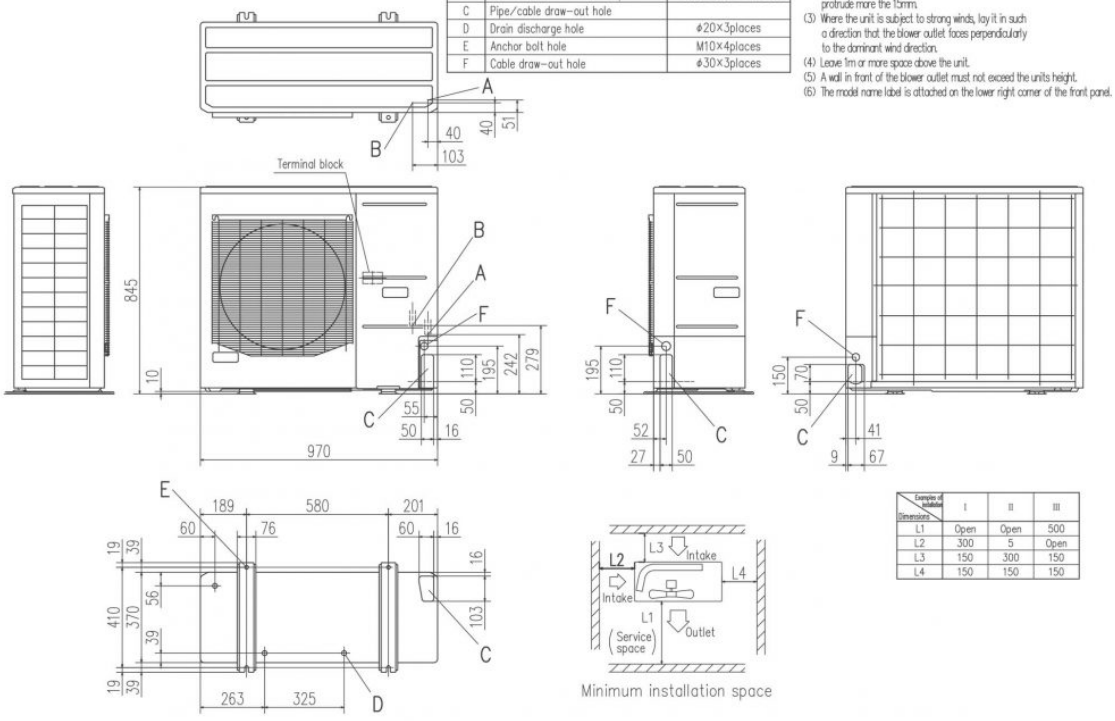
Select either of two cases to keep space for installation and services.

Notes (a) There must not be obstacle to draw out 2 fan units.
(b) Install refrigerant pipes, drain pipe,and wiring so as not to cross ▨ marked area.
(c) The case that pipes are installed to upper (bottom) of fan unit, keep space of 60mm or more to upper (bottom) of unit.

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