MITSUBISHI HEAVY INDUSTRIES AIR CONDITIONING EUROPE

FDU280VSAWVH

27.0 (6.9 ~ 31.5)

Indoor Unit : FDU280VH

Outdoor Unit : FDC280VSA-W

R32

Specifications

Indoor unit				FDU280VH
Outdoor unit				FDC280VSA-W
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz
Nominal cooling capacity (Min~Max)			kW	27.0 (6.9 ~ 31.5)
Nominal heating capacity (Min~Max)			kW	30.0 (6.9 ~ 33.5)
Power consumption		Cooling/Heating	kW	9.15 / 9.12
EER/COP		Cooling/Heating		2.95 / 3.29
Inrush current			A	5
Max. running current			A	25
Sound power level*1	Indoor *3	Cooling/Heating	dB(A)	78 / 78
	Outdoor	Cooling/Heating		75 / 77
Sound pressure level*1	Indoor *3	Cooling (Hi/Me/Lo/Ulo)		52 / 50 / 47 / 45
		Heating (Hi/Me/Lo/Ulo)		52 / 50 / 47 / 44
	Outdoor	Cooling/Heating		61 / 63
Air flow	Indoor *3	Cooling (Hi/Me/Lo/Ulo)	m^3/min	80 / 72 / 64 / 56
		Heating (Hi/Me/Lo/Ulo)		80 / 72 / 64 / 56
	Outdoor	Cooling/Heating		136 / 140
Exterior Dimensions	Indoor	Height x Width x Depth	mm	379 x 1,600 x 893
	Outdoor			1,505 x 970 x 370
Net weight	Indoor / Outdoor		kg	88 / 155
Refrigerant		Type/GWP		R32/675
Refrigerant piping size		Liquid/Gas	mm (ø inch)	12.7(1/2") / 22.22(7/8")
Refrigerant line (one way) length			m	Max.60
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				Procure locally
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2

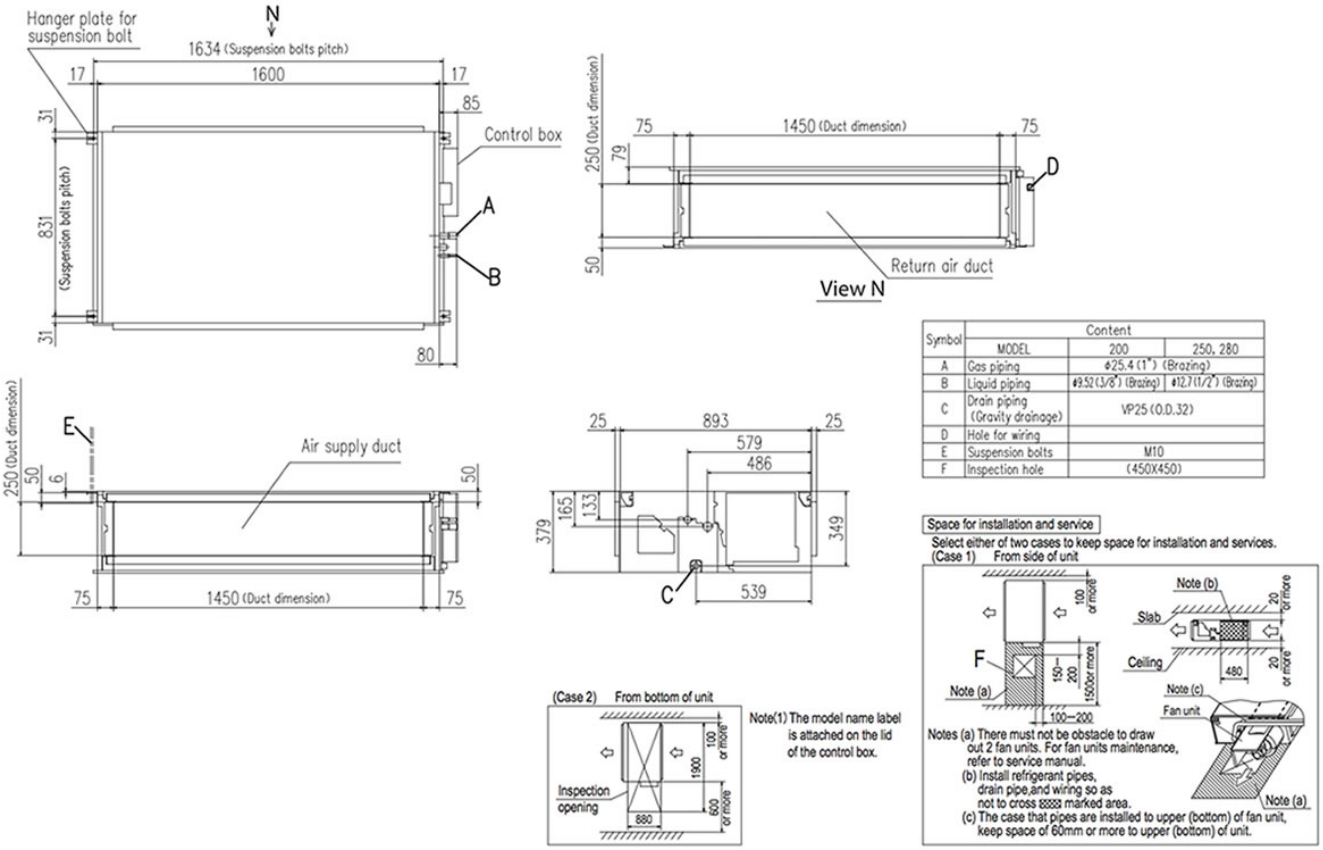
The data is measured under the following conditions (R32 : ISO-T1, -H1 /, R410A : ISO-T1).
Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

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.

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

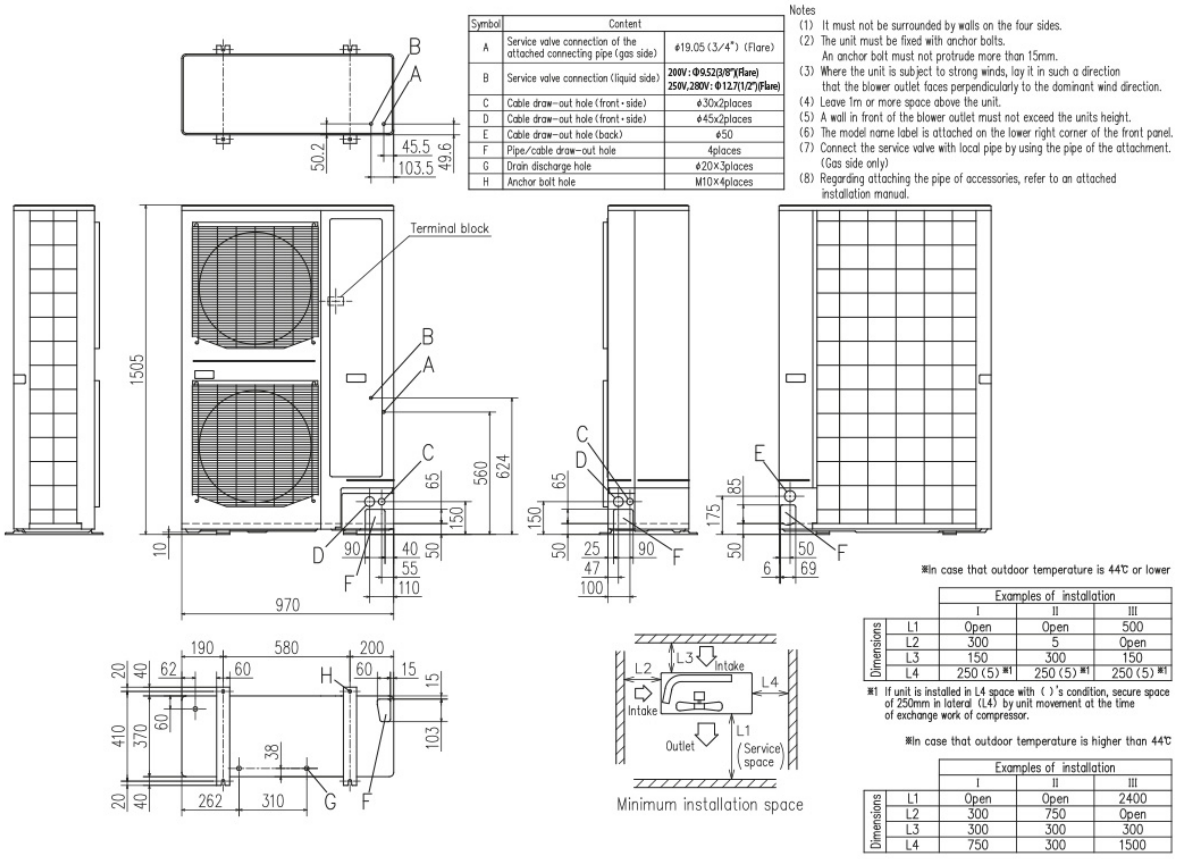
Schematics

Models FDU200VH, 250VH, 280VH



Symbol	Content		
	MODEL	200	250, 280
A	Gas piping	⌀25.4 (1") (Brazing)	
B	Liquid piping	⌀9.52 (3/8") (Brazing)	⌀12.7 (1/2") (Brazing)
C	Drain piping (Gravity drainage)	VP25 (O.D.32)	
D	Hole for wiring		
E	Suspension bolts	M10	
F	Inspection hole	(450X450)	

FDC200VSA-W, 250VSA-W, FDC280VSA-W
FDC250VSA



Symbol	Content	
A	Service valve connection of the attached connecting pipe (gas side)	ϕ19.05 (3/4") (Flare)
B	Service valve connection (liquid side)	200V : ϕ9.52(3/8")(Flare) 250V,280V : ϕ12.7(1/2")(Flare)
C	Cable draw-out hole (front・side)	ϕ30x2places
D	Cable draw-out hole (front・side)	ϕ45x2places
E	Cable draw-out hole (back)	ϕ50
F	Pipe/cable draw-out hole	4places
G	Drain discharge hole	ϕ20×3places
H	Anchor bolt hole	M10×4places

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 than 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.
(7) Connect the service valve with local pipe by using the pipe of the attachment. (Gas side only)
(8) Regarding attaching the pipe of accessories, refer to an attached installation manual.

※In case that outdoor temperature is 44℃ or lower

		Examples of installation		
		I	II	III
Dimensions	L1	Open	Open	500
	L2	300	5	Open
	L3	150	300	150
	L4	250 (5) ※1	250 (5) ※1	250 (5) ※1

※1 If unit is installed in L4 space with ( )'s condition, secure space of 250mm in lateral (L4) by unit movement at the time of exchange work of compressor.

※In case that outdoor temperature is higher than 44℃

		Examples of installation		
		I	II	III
Dimensions	L1	Open	Open	2400
	L2	300	750	Open
	L3	300	300	300
	L4	750	300	1500

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