MITSUBISHI HEAVY INDUSTRIES AIR CONDITIONING EUROPE





FDUM40ZSXW1VH

4.0 (1.1 ~ 4.7)

Indoor Unit : FDUM40VH

Outdoor Unit : SRC40ZSX-W1

R32

Specifications

Indoor unit				FDUM40VH
Outdoor unit				SRC40ZSX-W1
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz
Nominal cooling capacity (Min~Max)			kW	4.0 (1.1 ~ 4.7)
Nominal heating capacity (Min~Max)			kW	4.5 (0.6 ~ 5.4)
Power consumption		Cooling/Heating	kW	1.10 / 1.10
EER/COP		Cooling/Heating		3.62 / 4.09
Inrush current			A	5
Max. running current			A	15
Sound power level*1	Indoor *3	Cooling/Heating	dB(A)	60 / 60
	Outdoor	Cooling/Heating		63 / 62
Sound pressure level*1	Indoor *3	Cooling (Hi/Me/Lo/Ulo)		37 / 32 / 29 / 26
		Heating (Hi/Me/Lo/Ulo)		37 / 32 / 29 / 26
	Outdoor	Cooling/Heating		52 / 50
Air flow	Indoor *3	Cooling (Hi/Me/Lo/Ulo)	m^3/min	13 / 10 / 9 / 8
		Heating (Hi/Me/Lo/Ulo)		13 / 10 / 9 / 8
	Outdoor	Cooling/Heating		39 / 33
Available external static pressure			Pa	Standard:35 Max:100
Exterior Dimensions	Indoor	Height x Width x Depth	mm	280 x 750 x 635
	Outdoor			640 x 800(+71) x 290
Net weight	Indoor / Outdoor		kg	29 / 45
Refrigerant		Type/GWP		R32/675
Refrigerant		Charge	kg/TCO2Eq	1.30/0.878
Refrigerant piping size		Liquid/Gas	mm (ø inch)	6.35(1/4") / 12.7(1/2")
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		-20~20
Air filter quantity				(Option) Filter kit : UM-FL1EF
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)				3.81
Pdesign (cooling/heating(@-10°C))			kW	4.0/3.0
Annual Electricity Consumption (cooling/heating)			kWh/a	230/1102
Designated Heating Season				Average

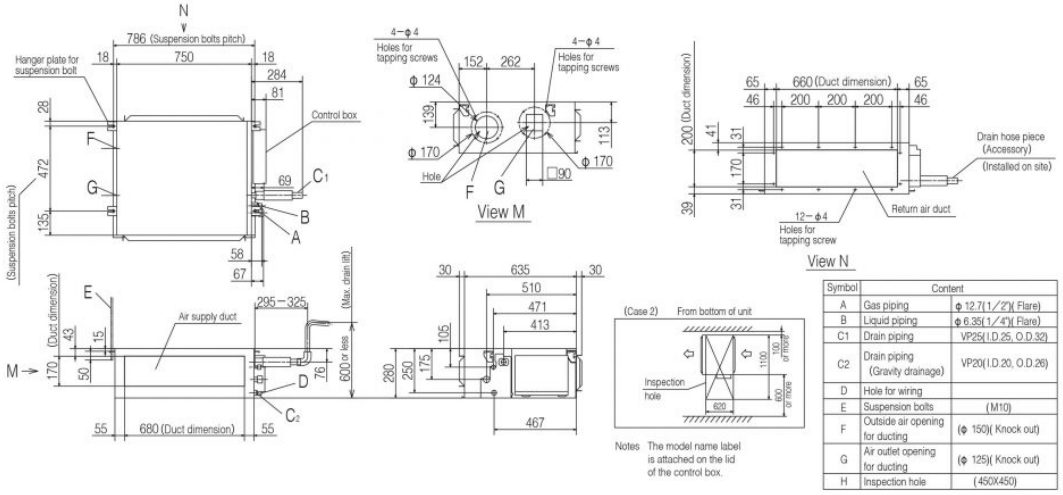
The data is measured under the following conditions (ISO-T1).
Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

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.

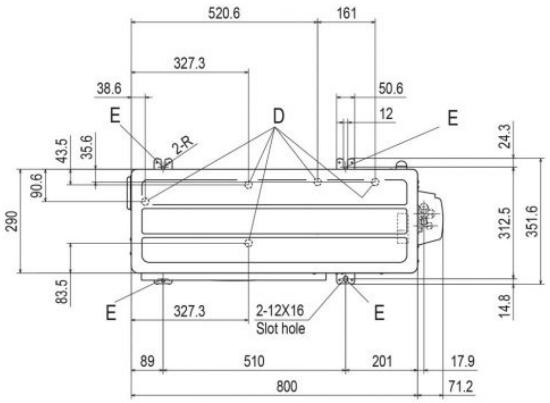
Schematics

Models FDUM40VH, FDUM50VH



Symbol	Content	
A	Gas piping	φ12.7(1/2")(Flare)
B	Liquid piping	φ6.35(1/4")(Flare)
C1	Drain piping	VP25(I.D.25, O.D.32)
C2	Drain piping (Gravity drainage)	VP20(I.D.20, O.D.26)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(φ 150)(Knock out)
G	Air outlet opening for ducting	(φ 125)(Knock out)
H	Inspection hole	(450X450)

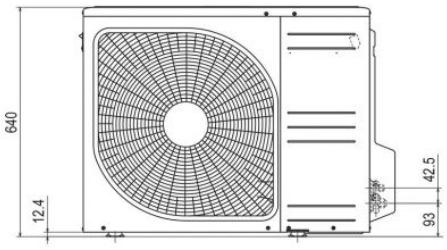
SRC40ZSX-W1, 50ZSX-W1, 60ZSX-W1 SRC40ZSX-S, 50ZSX-S, 60ZSX-S

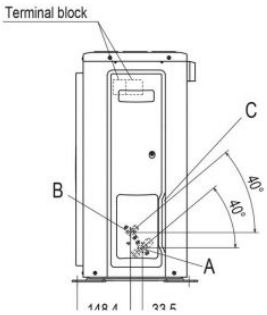


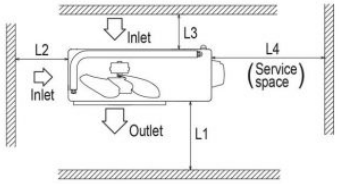
Symbol	Content	
A	Service valve connection (Gas side)	φ12.7(1/2")(Flare)
B	Service valve connection (Liquid side)	φ6.35(1/4")(Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	φ20×5 places
E	Anchor bolt hole	M10-12×4 places

Notes

(1) The unit 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) If the unit is installed in the location where there is a possibility of strong winds, place the unit such that the direction of air from the outlet gets perpendicular to the wind direction.
(4) Leave 200mm or more space above the unit.
(5) The wall height on the outlet side should be 1200mm or less.
(6) The model name label is attached on the front side of the unit.







Minimum installation space

Examples installation / Size	I	II	III	IV
L1	Open	280	280	180
L2	100	75	Open	Open
L3	100	80	80	80
L4	250	Open	250	Open

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MITSUBISHI HEAVY INDUSTRIES AIR CONDITIONING EUROPE





FDUM60ZSXW3VH

5.6 (1.1 ~ 6.3)

Indoor Unit : FDUM60VH

Outdoor Unit : SRC60ZSX-W3

Specifications

R32

Indoor unit				FDUM60VH
Outdoor unit				SRC60ZSX-W3
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz
Nominal cooling capacity (Min~Max)			kW	5.6 (1.1 ~ 6.3)
Nominal heating capacity (Min~Max)			kW	6.7 (0.6 ~ 7.1)
Power consumption		Cooling/Heating	kW	1.54 / 1.75
EER/COP		Cooling/Heating		3.64 / 3.83
Inrush current			A	5
Max. running current			A	15
Sound power level*1	Indoor *3	Cooling/Heating	dB(A)	60 / 60
	Outdoor	Cooling/Heating		65 / 65
Sound pressure level*1	Indoor *3	Cooling (Hi/Me/Lo/Ulo)		36 / 31 / 28 / 25
		Heating (Hi/Me/Lo/Ulo)		36 / 31 / 28 / 25
	Outdoor	Cooling/Heating		53 / 54
Air flow	Indoor *3	Cooling (Hi/Me/Lo/Ulo)	m^3/min	20 / 15 / 13 / 10
		Heating (Hi/Me/Lo/Ulo)		20 / 15 / 13 / 10
	Outdoor	Cooling/Heating		41.5 / 39
Available external static pressure			Pa	Standard:35 Max:100
Exterior Dimensions	Indoor	Height x Width x Depth	mm	280 x 950 x 635
	Outdoor			640 x 800(+71) x 290
Net weight	Indoor / Outdoor		kg	34 / 45
Refrigerant		Type/GWP		R32/675
Refrigerant		Charge	kg/TCO2Eq	1.30/0.878
Refrigerant piping size		Liquid/Gas	mm (ø inch)	6.35(1/4") / 12.7(1/2")
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		-20~20
Air filter quantity				(Option) Filter kit : UM-FL2EF
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2
Energy Class (Cooling/Heating)				A++/A+
SEER				6.43
SCOP (Average climate)				4.37
Pdesign (cooling/heating(@-10°C))			kW	5.6/4.7
Annual Electricity Consumption (cooling/heating)			kWh/a	305/1508
Designated Heating Season				Average

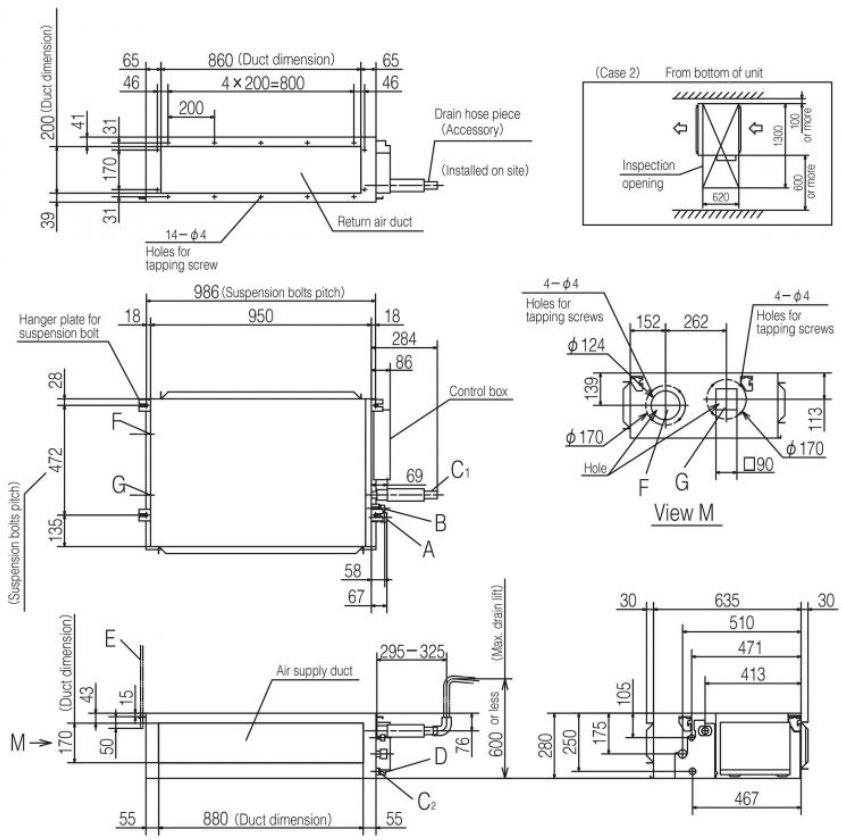
The data is measured under the following conditions (R32 : ISO-T1, -H1 /, R410A : ISO-T1).
Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

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)

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Schematics

Models FDUM60VH,71VH



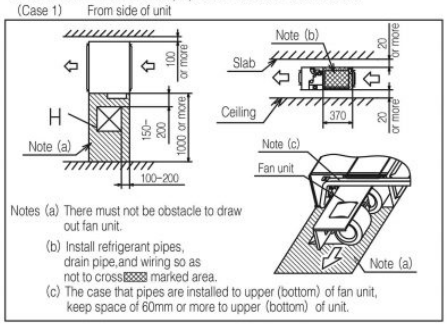
Symbol	Content		
	Model	60	71
A	Gas piping	ϕ12.7 (1/2") (Flare)	ϕ15.88 (5/8") (Flare)
B	Liquid piping	ϕ6.35 (1/4") (Flare)	ϕ9.52 (3/8") (Flare)
C1	Drain piping	VP25 (O.D.32)	
C2	Drain piping (Gravity drainage)	VP20	
D	Hole for wiring		
E	Suspension bolts	(M10)	
F	Outside air opening for ducting	(ϕ150) (Knock out)	
G	Air outlet opening for ducting	(ϕ125) (Knock out)	
H	Inspection opening	(450×450)	

Note (1) The model name label is attached on the lid of the control box.

Space for installation and service

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

(Case 1) From side of unit



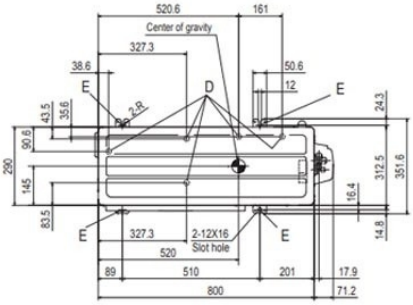
Notes (a) There must not be obstacle to draw out fan unit.

(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.

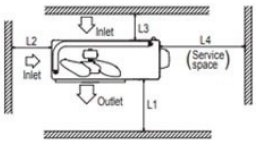
Unit: mm

Models: SRC40ZSX-W1, SRC50ZSX-W(-W1, -W3), SRC60ZSX-W(-W1, -W3)



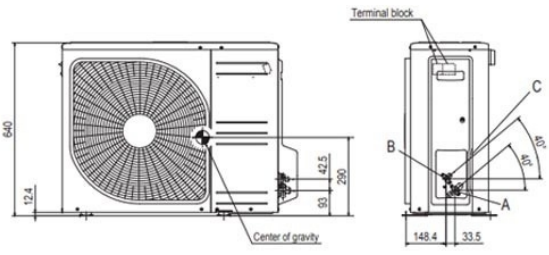
Notes

(1) The unit 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) If the unit is installed in the location where there is a possibility of strong winds, place the unit such that the direction of air from the outlet gets perpendicular to the wind direction.
(4) Leave 200mm or more space above the unit.
(5) The wall height on the outlet side should be 1200mm or less.
(6) The model name label is attached on the front side of the unit.



Minimum installation space

Examples installation / Size	I	II	III	IV
L1	Open	280	280	180
L2	100	75	Open	Open
L3	100	80	80	80
L4	250	Open	250	Open



Symbol	Content	
A	Service valve connection (Gas side)	ϕ12.7(1/2")(Flare)
B	Service valve connection (Liquid side)	ϕ6.35(1/4")(Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ϕ20×5 places
E	Anchor bolt hole	M10-12×4 places

MITSUBISHI HEAVY INDUSTRIES AIR CONDITIONING EUROPE





FDUM71VNXWVH

7.1 (3.2 ~ 8.0)

Indoor Unit : FDUM71VH

Outdoor Unit : FDC71VNX-W

R32

Specifications

Indoor unit				FDUM71VH
Outdoor unit				FDC71VNX-W
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz
Nominal cooling capacity (Min~Max)			kW	7.1 (3.2 ~ 8.0)
Nominal heating capacity (Min~Max)			kW	8.0 (3.6 ~ 9.0)
Power consumption		Cooling/Heating	kW	1.77 / 1.78
EER/COP		Cooling/Heating		4.01 / 4.49
Inrush current			A	5
Max. running current			A	20
Sound power level*1	Indoor *3	Cooling/Heating	dB(A)	65 / 65
	Outdoor	Cooling/Heating		66 / 66
Sound pressure level*1	Indoor *3	Cooling (Hi/Me/Lo/Ulo)		38 / 33 / 29 / 25
		Heating (Hi/Me/Lo/Ulo)		38 / 33 / 29 / 25
	Outdoor	Cooling/Heating		51 / 51
Air flow	Indoor *3	Cooling (Hi/Me/Lo/Ulo)	m^3/min	24 / 19 / 15 / 10
		Heating (Hi/Me/Lo/Ulo)		24 / 19 / 15 / 10
	Outdoor	Cooling/Heating		60 / 50
Available external static pressure			Pa	Standard:35 Max:100
Exterior Dimensions	Indoor	Height x Width x Depth	mm	280 x 950 x 635
	Outdoor			750 x 880(+88) x 340
Net weight	Indoor / Outdoor		kg	34 / 60
Refrigerant		Type/GWP		R32/675
Refrigerant		Charge	kg/TCO2Eq	2.75/1.86
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.30 / Max.15
Outdoor operating temperature range		Cooling*2	°C	-15~50
		Heating		-20~20
Air filter quantity				(Option) Filter kit : UM-FL2EF
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2
Energy Class (Cooling/Heating)				A++/A+
SEER				6.89
SCOP (Average climate)				4.45
Pdesign (cooling/heating(@-10°C))			kW	7.1/6.0
Annual Electricity Consumption (cooling/heating)			kWh/a	361/1878
Designated Heating Season				Average

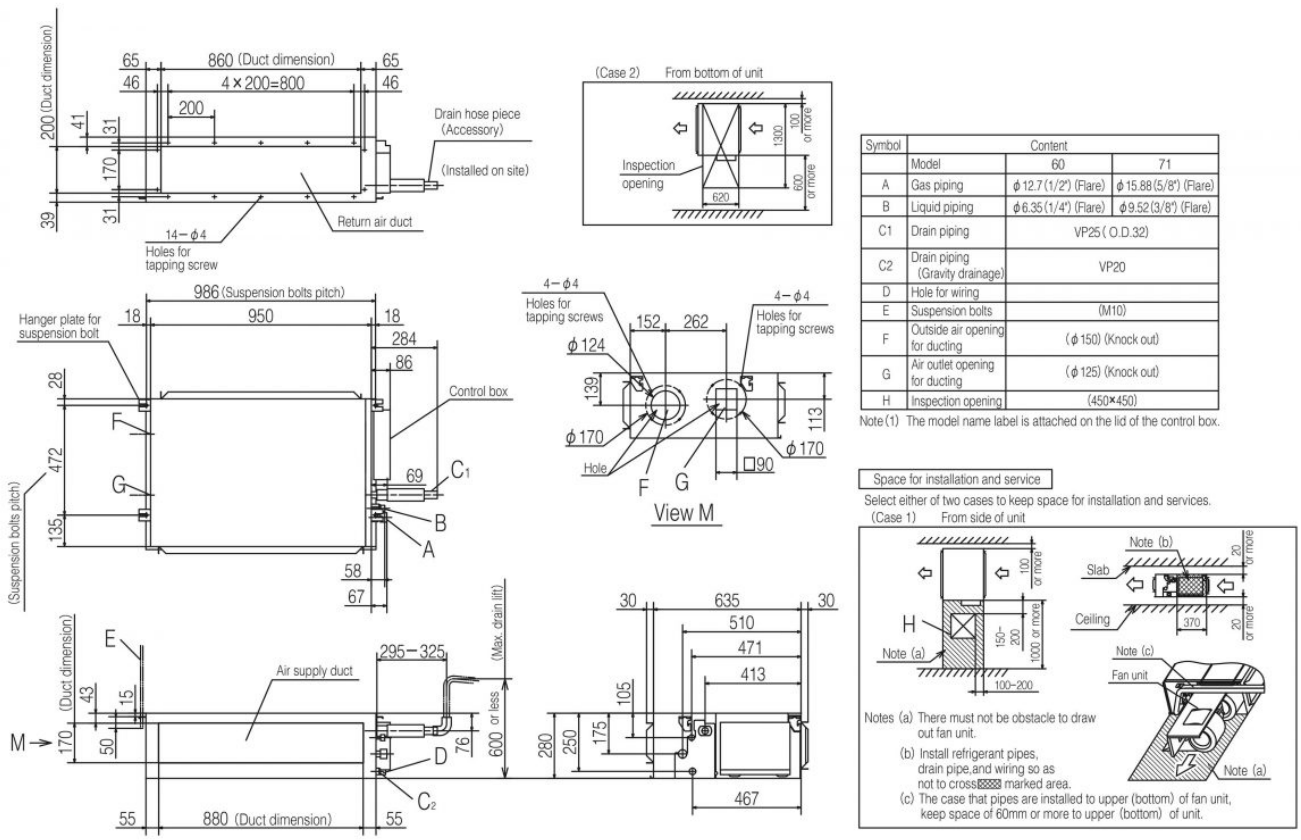
The data is measured under the following conditions (ISO-T1).
Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

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 FDUM60VH,71VH



Symbol	Content		
	Model	60	71
A	Gas piping	φ12.7 (1/2") (Flare)	φ15.88 (5/8") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	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)	

Note (1) The model name label is attached on the lid of the control box.

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 fan unit.

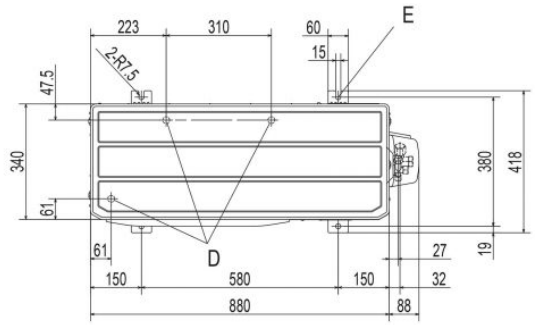
(b) Install refrigerant pipes, drain pipe,and wiring so as not to cross marked area.

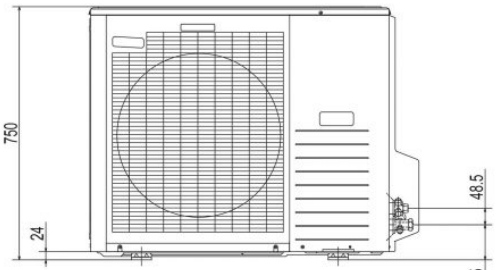
(c) The case that pipes are installed to upper (bottom) of fan unit, keep space of 60mm or more to upper (bottom) of unit.

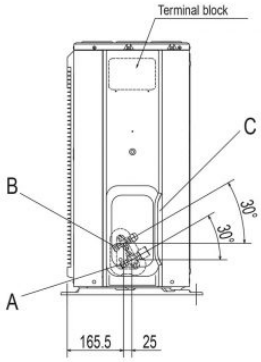
FDC71VNX-W
FDC71VNX

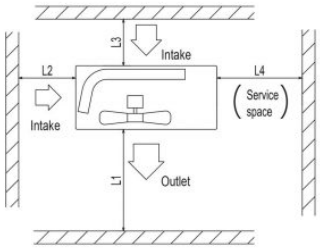
Symbol	Content	
A	Service valve connection (gas side)	φ15.88 (5/8") (Flare)
B	Service valve connection (liquid side)	φ9.52 (3/8") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	φ20 × 3places
E	Anchor bolt hole	M10 × 4places

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.









Minimum installation space

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

MITSUBISHI HEAVY INDUSTRIES AIR CONDITIONING EUROPE





FDUM100VSAVH

10.0 (4.0 ~ 11.2)

Indoor Unit : FDUM100VH

Outdoor Unit : FDC100VSA

R410A

Specifications

Indoor unit				FDUM100VH
Outdoor unit				FDC100VSA
Power source				3 Phase 380-415V, 50Hz / 380V, 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	17
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 / 82
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				(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

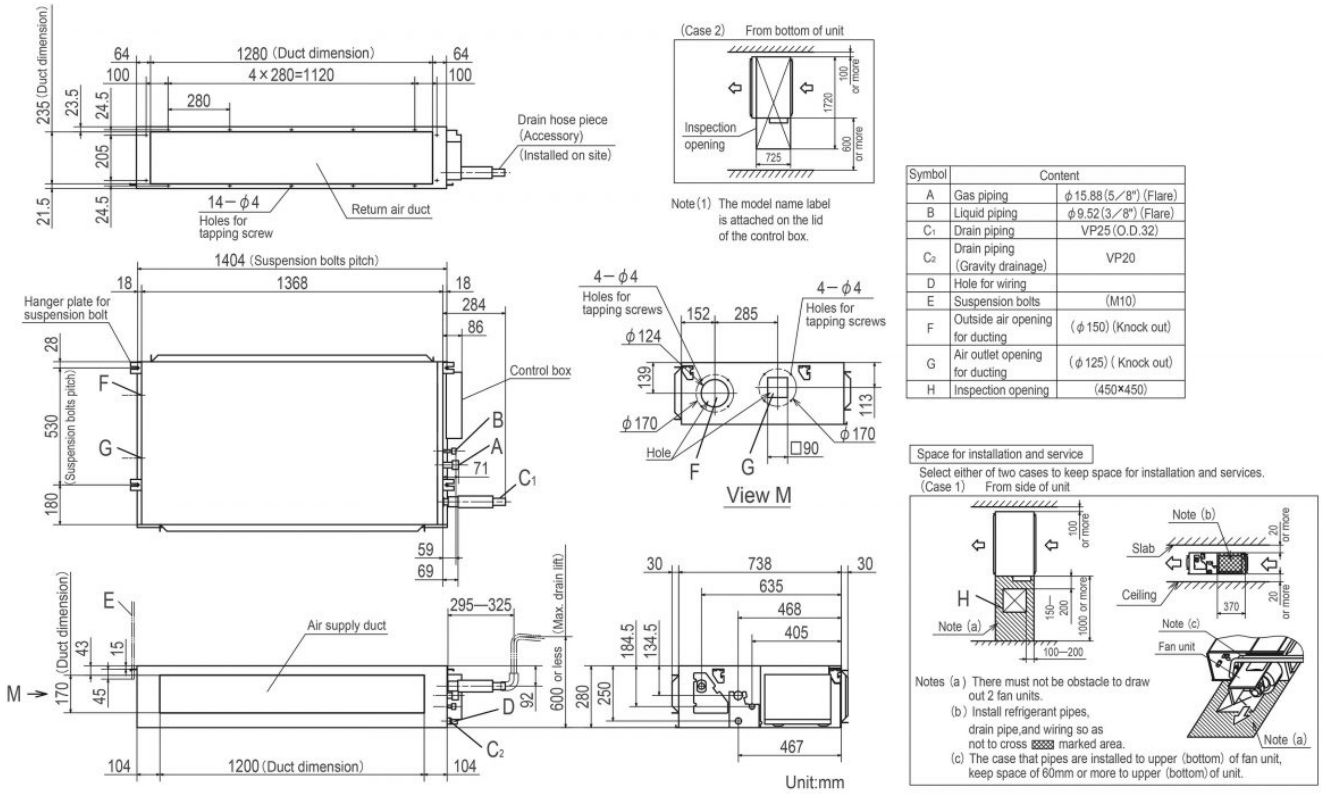
The data is measured under the following conditions (R32 : ISO-T1, -H1 /, R410A : ISO-T1).
Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

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)

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

Schematics

Models FDUM100VH,125VH,140VH

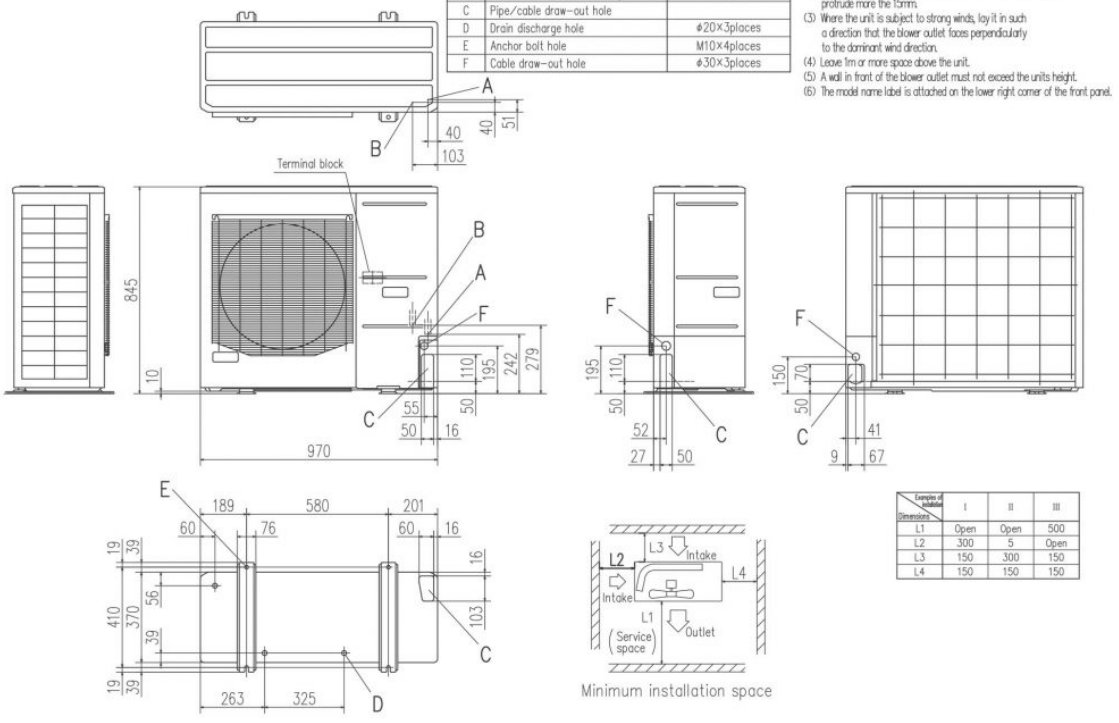


Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C1	Drain piping	VP25 (O.D.32)
C2	Drain piping (Gravity drainage)	VP20
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(φ150) (Knock out)
G	Air outlet opening for ducting	(φ125) (Knock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

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

MITSUBISHI HEAVY INDUSTRIES AIR CONDITIONING EUROPE





FDUM125VSAWVH

12.5 (5.0 ~ 14.0)

Indoor Unit : FDUM125VH

Outdoor Unit : FDC125VSA-W

R32

Specifications

Indoor unit				FDUM125VH
Outdoor unit				FDC125VSA-W
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz
Nominal cooling capacity (Min~Max)			kW	12.5 (5.0 ~ 14.0)
Nominal heating capacity (Min~Max)			kW	14.0 (4.0 ~ 16.0)
Power consumption		Cooling/Heating	kW	4.36 / 3.69
EER/COP		Cooling/Heating		2.87 / 3.79
Inrush current			A	5
Max. running current			A	17
Sound power level*1	Indoor *3	Cooling/Heating	dB(A)	67 / 67
	Outdoor	Cooling/Heating		71 / 71
Sound pressure level*1	Indoor *3	Cooling (Hi/Me/Lo/Ulo)		45 / 40 / 34 / 29
		Heating (Hi/Me/Lo/Ulo)		45 / 40 / 34 / 29
	Outdoor	Cooling/Heating		54 / 56
Air flow	Indoor *3	Cooling (Hi/Me/Lo/Ulo)	m^3/min	39 / 32 / 26 / 20
		Heating (Hi/Me/Lo/Ulo)		39 / 32 / 26 / 20
	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 / 78
Refrigerant		Type/GWP		R32/675
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				(Option) Filter kit : UM-FL3EF
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2
SEER				5.57
SCOP (Average climate)				4.13

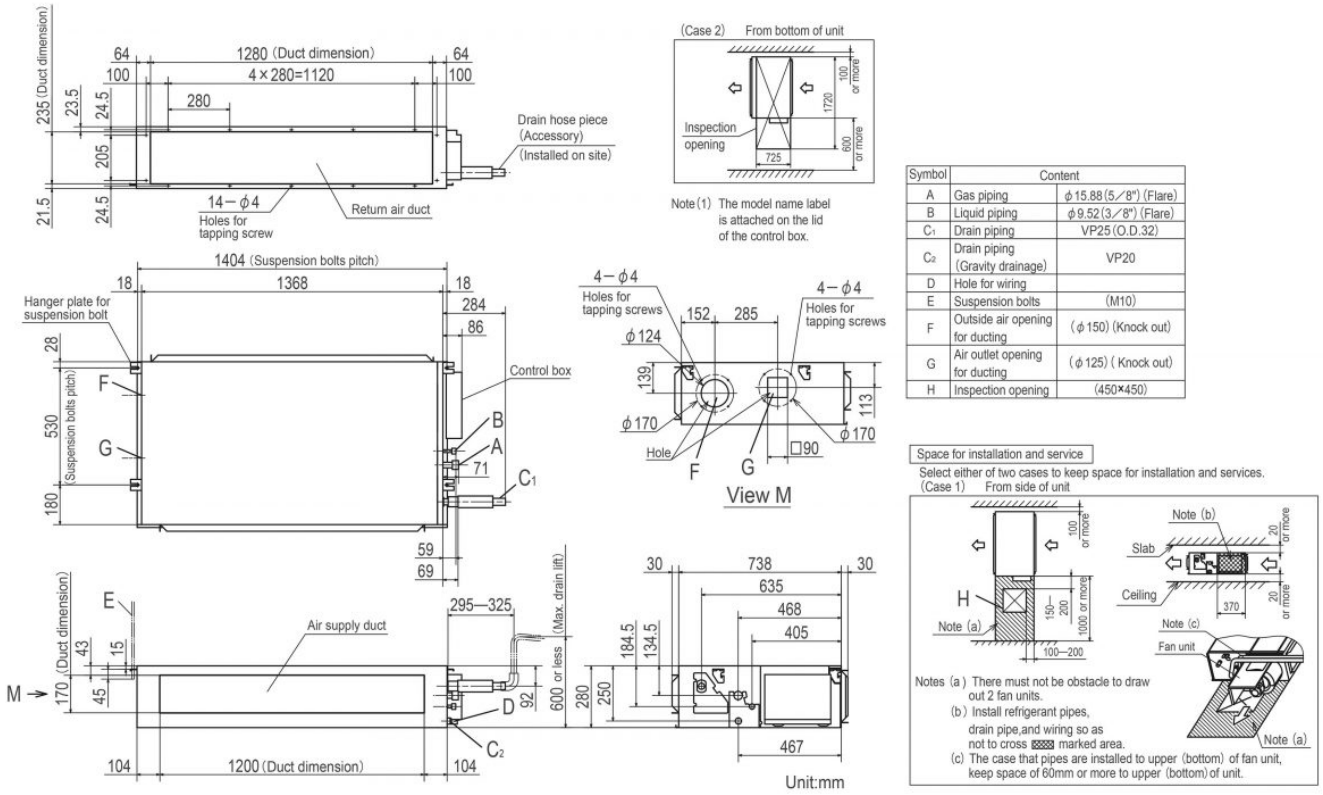
The data is measured under the following conditions (R32 : ISO-T1, -H1 /, R410A : ISO-T1).
Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

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)

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

Schematics

Models FDUM100VH,125VH,140VH

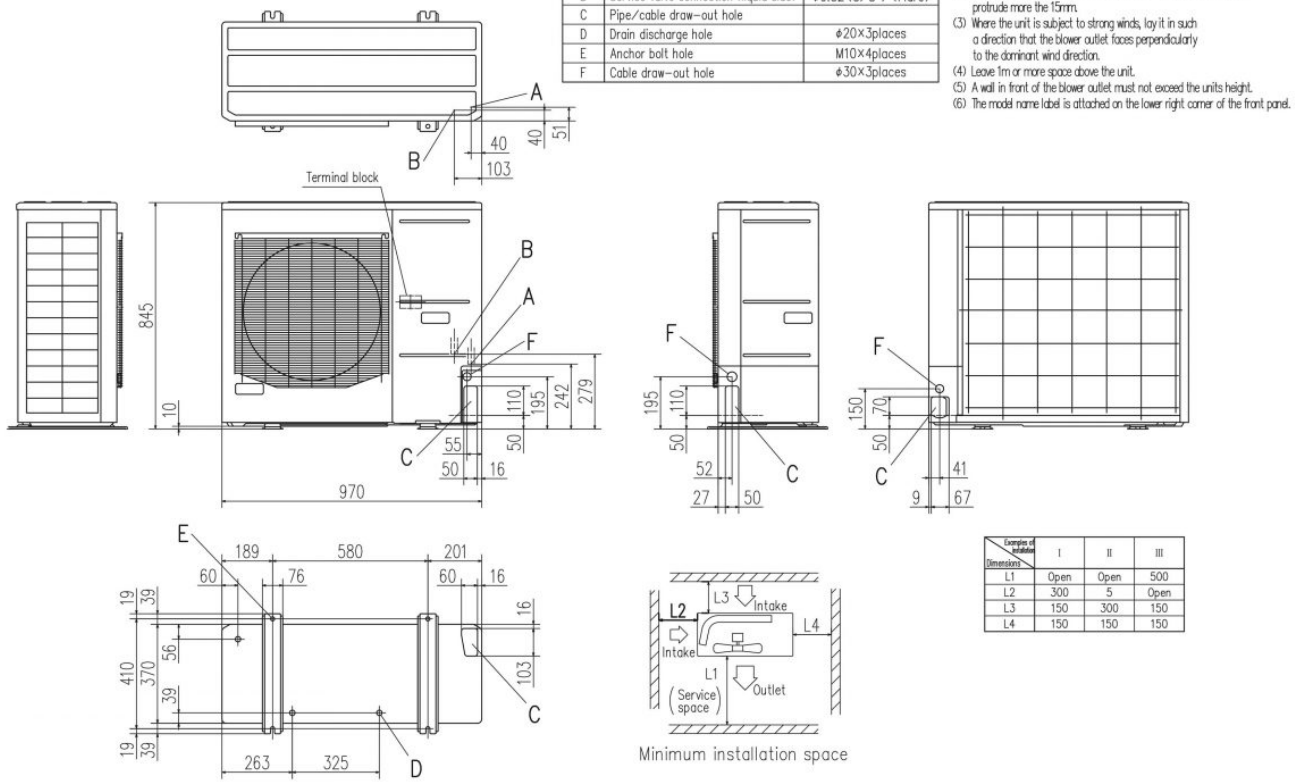


Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C1	Drain piping	VP25 (O.D.32)
C2	Drain piping (Gravity drainage)	VP20
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(φ150) (Knock out)
G	Air outlet opening for ducting	(φ125) (Knock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

FDC100VNA-W, 125VNA-W, 140VNA-W, 100VSA-W, 125VSA-W, 140VSA-W
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

MITSUBISHI HEAVY INDUSTRIES AIR CONDITIONING EUROPE





FDUM140VSAWVH

13.6 (5.0 ~ 14.5)

Indoor Unit : FDUM140VH

Outdoor Unit : FDC140VSA-W

R32

Specifications

Indoor unit				FDUM140VH
Outdoor unit				FDC140VSA-W
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz
Nominal cooling capacity (Min~Max)			kW	13.6 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)			kW	15.5 (4.0 ~ 16.5)
Power consumption		Cooling/Heating	kW	5.13 / 4.21
EER/COP		Cooling/Heating		2.65 / 3.68
Inrush current			A	5
Max. running current			A	18
Sound power level*1	Indoor *3	Cooling/Heating	dB(A)	70 / 70
	Outdoor	Cooling/Heating		72 / 73
Sound pressure level*1	Indoor *3	Cooling (Hi/Me/Lo/Ulo)		47 / 40 / 35 / 30
		Heating (Hi/Me/Lo/Ulo)		47 / 40 / 35 / 30
	Outdoor	Cooling/Heating		56 / 58
Air flow	Indoor *3	Cooling (Hi/Me/Lo/Ulo)	m^3/min	48 / 35 / 28 / 22
		Heating (Hi/Me/Lo/Ulo)		48 / 35 / 28 / 22
	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 / 78
Refrigerant		Type/GWP		R32/675
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				(Option) Filter kit : UM-FL3EF
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2
SEER				5.30
SCOP (Average climate)				4.01

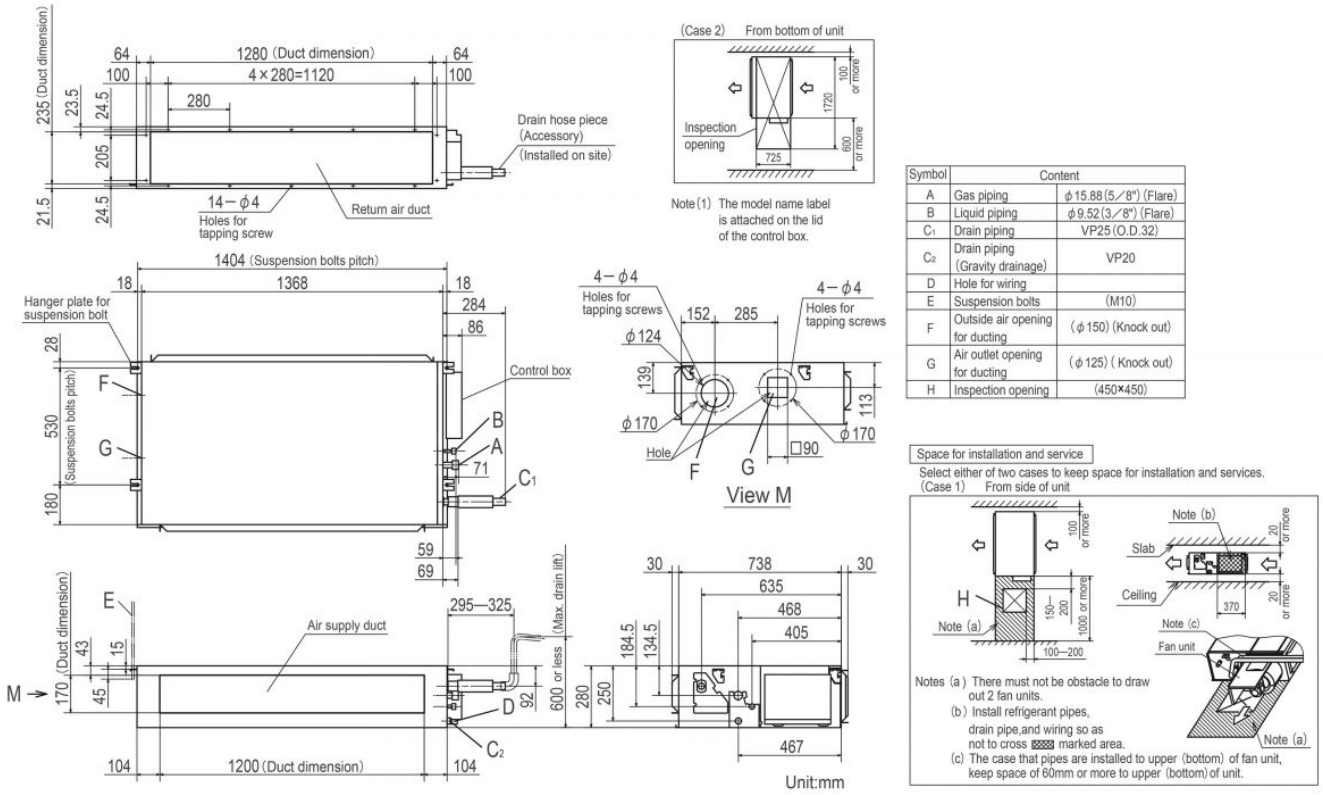
The data is measured under the following conditions (R32 : ISO-T1, -H1 /, R410A : ISO-T1).
Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

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)

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

Schematics

Models FDUM100VH,125VH,140VH

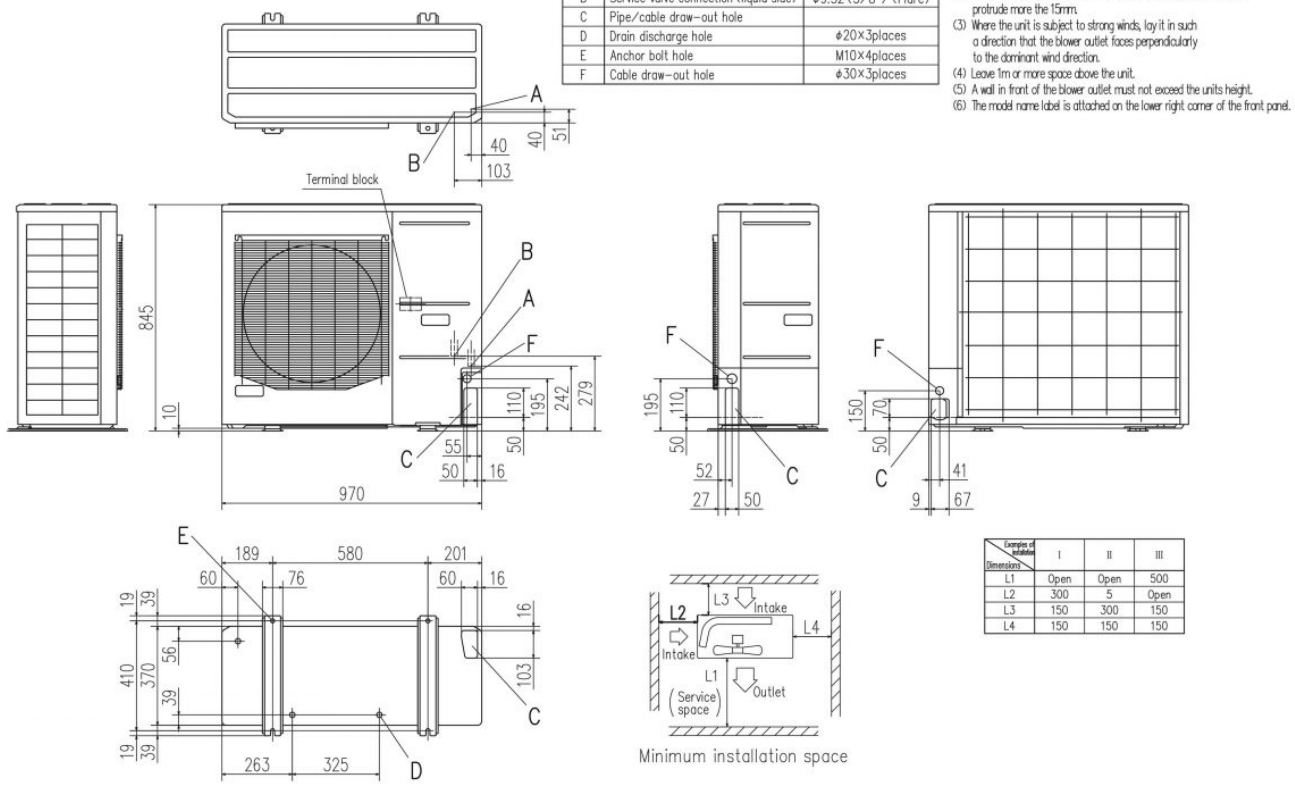


Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C1	Drain piping	VP25 (O.D.32)
C2	Drain piping (Gravity drainage)	VP20
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(φ150) (Knock out)
G	Air outlet opening for ducting	(φ125) (Knock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

FDC100VNA-W, 125VNA-W, 140VNA-W, 100VSA-W, 125VSA-W, 140VSA-W
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

MITSUBISHI HEAVY INDUSTRIES AIR CONDITIONING EUROPE





FDUM140VSXVH

14.0 (5.0 ~ 16.0)

Indoor Unit : FDUM140VH

Outdoor Unit : FDC140VSX

R410A

Specifications

Indoor unit				FDUM140VH
Outdoor unit				FDC140VSX
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz
Nominal cooling capacity (Min~Max)			kW	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW	16.0 (4.0 ~ 20.0)
Power consumption		Cooling/Heating	kW	4.28 / 4.42
EER/COP		Cooling/Heating		3.27 / 3.62
Inrush current			A	5
Max. running current			A	15
Sound power level*1	Indoor *3	Cooling/Heating	dB(A)	70 / 70
	Outdoor	Cooling/Heating		72 / 72
Sound pressure level*1	Indoor *3	Cooling (Hi/Me/Lo/Ulo)		47 / 40 / 35 / 30
		Heating (Hi/Me/Lo/Ulo)		47 / 40 / 35 / 30
	Outdoor	Cooling/Heating		49 / 52
Air flow	Indoor *3	Cooling (Hi/Me/Lo/Ulo)	m^3/min	48 / 35 / 28 / 22
		Heating (Hi/Me/Lo/Ulo)		48 / 35 / 28 / 22
	Outdoor	Cooling/Heating		100 / 100
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			1,300 x 970 x 370
Net weight	Indoor / Outdoor		kg	54 / 105
Refrigerant		Type/GWP		R410A/2088
Refrigerant piping size		Liquid/Gas	mm (ø inch)	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.100
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15
Outdoor operating temperature range		Cooling*2	°C	-15~43
		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
SEER				5.36
SCOP (Average climate)				3.88

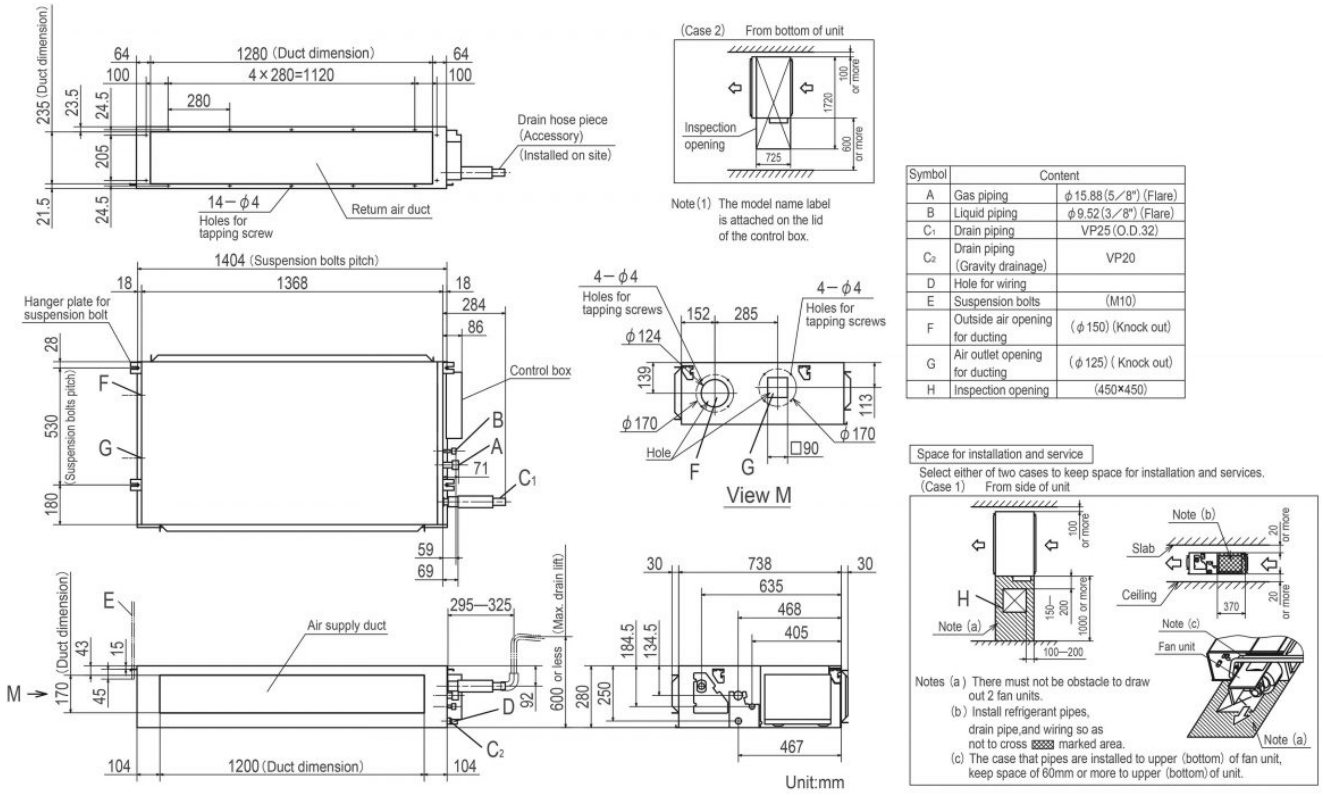
The data is measured under the following conditions (ISO-T1).
Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

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)

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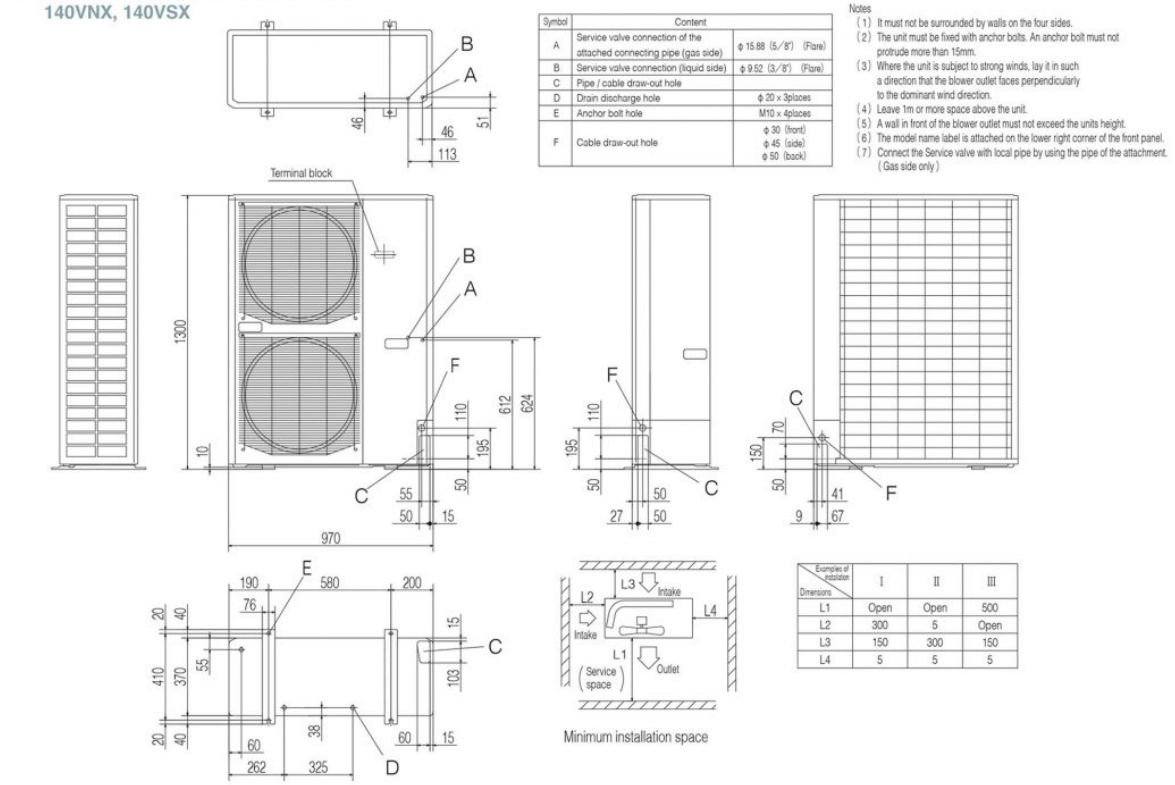
Schematics

Models FDUM100VH,125VH,140VH



Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C_1	Drain piping	VP25 (O.D.32)
C_2	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)

FDC100VNX, 100VSX, 125VNX, 125VSX, 140VNX, 140VSX



Symbol	Content	
A	Service valve connection of the attached connecting pipe (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 (front) φ45 (side) φ50 (back)

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)

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