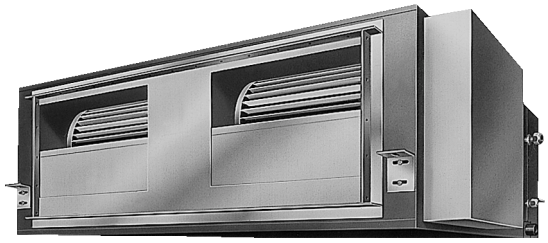
FXM-L
Ceiling Mounted Duct Type

1. Features

Ceiling mounted duct type is newly added to the line-up of the indoor unit for VRV series, which gives you much more flexibility in designing of the air conditioning system to satisfy the needs of individual air-conditioning even in the broad area.

■ **High external static pressure allows extensive duct work for flexible applications.**

Ceiling mounted duct type	
FXM40L FXM50L FXM63L FXM80L FXM100L FXM125L	FXM200L FXM250L



Wide line-up to increase the flexibility in system designing.

40~63 type

80~125 type

200 · 250 type

2. Specifications

Ceiling Mounted Duct Type

Model			FXM40LVE	FXM50LVE	FXM63LVE	FXM80LVE
★1 Cooling Capacity (19.5°CWB)		kcal/h	4,000	5,000	6,300	8,000
		Btu/h	15,900	19,900	25,000	31,800
		kW	4.7	5.8	7.3	9.3
★2 Cooling Capacity (19.0°CWB)		kW	4.5	5.6	7.1	9.0
★3 Heating Capacity		kcal/h	4,300	5,400	6,900	8,600
		Btu/h	17,000	21,500	27,300	34,100
		kW	5.0	6.3	8.0	10.0
Casing			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions: (H×W×D)		mm	390×720×690	390×720×690	390×720×690	390×1,110×690
Coil (Cross Fin Coil)	Rows×Stages×Fin Pitch	mm	3×16×2.0	3×16×2.0	3×16×2.0	3×16×2.0
	Face Area	m²	0.181	0.181	0.181	0.319
Fan	Model		D11/2D3AB1VE	D11/2D3AB1VE	D11/2D3AA1VE	2D11/2D3AG1VE
	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output × Number of Units	W	100×1	100×1	160×1	270×1
	Air Flow Rate (H/L)	m³/min	14/11.5	14/11.5	19.5/16	29/23
		cfm	494/406	494/406	688/565	1,024/812
	External Static Pressure	Pa	157/157-118/108 ★4	157/157-118/108 ★4	157/160-108/98 ★4	157/172-98/98 ★4
	Drive		Direct Drive	Direct Drive	Direct Drive	Direct Drive
Temperature Control			Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating
Sound Absorbing Thermal Insulation Material			Glass Fiber	Glass Fiber	Glass Fiber	Glass Fiber
Air Filter			★5	★5	★5	★5
Piping Connections	Liquid Pipes	mm	ϕ6.4 (Flare Connection)	ϕ9.5 (Flare Connection)	ϕ9.5 (Flare Connection)	ϕ9.5 (Flare Connection)
	Gas Pipes	mm	ϕ12.7 (Flare Connection)	ϕ15.9 (Flare Connection)	ϕ15.9 (Flare Connection)	ϕ15.9 (Flare Connection)
	Drain Pipe	mm	VP25 (External Dia. 32 Internal Dia. 25)	VP25 (External Dia. 32 Internal Dia. 25)	VP25 (External Dia. 32 Internal Dia. 25)	VP25 (External Dia. 32 Internal Dia. 25)
Machine Weight		kg	44	44	45	62
★7 Sound Level (H/L)		dBA	39/35	39/35	42/38	43/39
Safety Devices			Fuse, Thermal Fuse for Fan Motor	Fuse, Thermal Fuse for Fan Motor	Fuse, Thermal Fuse for Fan Motor	Fuse, Thermal Fuse for Fan Motor
Refrigerant Control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Connectable outdoor unit			R22 ; K-Series R407C ; K or L Series	R22 ; K-Series R407C ; K or L Series	R22 ; K-Series R407C ; K or L Series	R22 ; K-Series R407C ; K or L Series
Standard Accessories			Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws.	Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws.	Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws.	Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws.
Drawing No.			3D034584A			

Notes:

★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
★4 Static external pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure-Standard".
★5 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its colorimetric method (gravity method) 50% or more.
6 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★7 Anechoic chamber conversion value, measured at a point 1.5m downward from the unit center. These values are normally somewhat higher during actual operation as a result of ambient conditions.
8 Refer to page 235 for Fan Motor Input.

Conversion Formulae
kcal/h=kW×860 Btu/h=kW×3414 cfm=m³/min×35.3

Ceiling Mounted Duct Type

Model			FXM100LVE	FXM125LVE	FXM200LVE	FXM250LVE
★1 Cooling Capacity (19.5°CWB)		kcal/h	10,000	12,500	20,000	25,000
		Btu/h	39,700	49,600	79,000	99,000
		kW	11.6	14.5	23.0	28.8
★2 Cooling Capacity (19.0°CWB)		kW	11.2	14.0	22.4	28.0
★3 Heating Capacity		kcal/h	10,800	13,800	21,500	27,000
		Btu/h	42,700	54,600	85,300	107,500
		kW	12.5	16.0	25.0	31.5
Casing			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate
Dimensions: (H×W×D)		mm	390×1,110×690	390×1,110×690	470×1,380×1,100	470×1,380×1,100
Coil (Cross Fin Coil)	Rows×Stages×Fin Pitch	mm	3×16×2.0	3×16×2.0	3×26×2.0	3×26×2.0
	Face Area	m²	0.319	0.319	0.68	0.68
Fan	Model		2D11/2D3AG1VE	2D11/2D3AF1VE	D13/4G2DA1×2	D13/4G2DA1×2
	Type		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor Output × Number of Units	W	270×1	430×1	380×2	380×2
	Air Flow Rate (H/L)	m³/min	29/23	36/29	58/50	72/62
		cfm	1,024/812	1,271/1,024	2,047/1,765	2,542/2,189
	External Static Pressure	Pa	157/172-98/98 ★4	191/245-152/172 ★4	221/270-132 ★4	270/191-147 ★4
	Drive		Direct Drive	Direct Drive	Direct Drive	Direct Drive
Temperature Control			Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating
Sound Absorbing Thermal Insulation Material			Glass Fiber	Glass Fiber	Glass Fiber	Glass Fiber
Air Filter			★5	★5	★5	★5
Piping Connections	Liquid Pipes	mm	ϕ9.5 (Flare Connection)	ϕ9.5 (Flare Connection)	ϕ12.7 (Flare Connection)	ϕ12.7 (Flare Connection)
	Gas Pipes	mm	ϕ19.1 (Flare Connection)	ϕ19.1 (Flare Connection)	ϕ25.4 (Brazing Connection)	ϕ28.6 (Brazing Connection)
	Drain Pipe	mm	VP25 (External Dia. 32 Internal Dia. 25)	VP25 (External Dia. 32 Internal Dia. 25)	PS1B	PS1B
Machine Weight		kg	63	65	137	137
★8 Sound Level (H/L)		dBA	43/39	45/42	48/45	48/45
Safety Devices			Fuse, Thermal Fuse for Fan Motor	Fuse, Thermal Fuse for Fan Motor	Fuse, Thermal Protector for Fan Motor	Fuse, Thermal Protector for Fan Motor
Refrigerant Control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Connectable outdoor unit			R22 ; K-Series R407C ; K or L Series	R22 ; K-Series R407C ; K or L Series	R22 ; K-Series R407C ; K or L Series	R22 ; K-Series R407C ; K or L Series
Standard Accessories			Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws.	Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws.	Operation Manual, Installation Manual, Sealing Pads, Connection Pipes, Screws, Clamps.	Operation Manual, Installation Manual, Sealing Pads, Connection Pipes, Screws, Clamps.
Drawing No.			3D034584A			

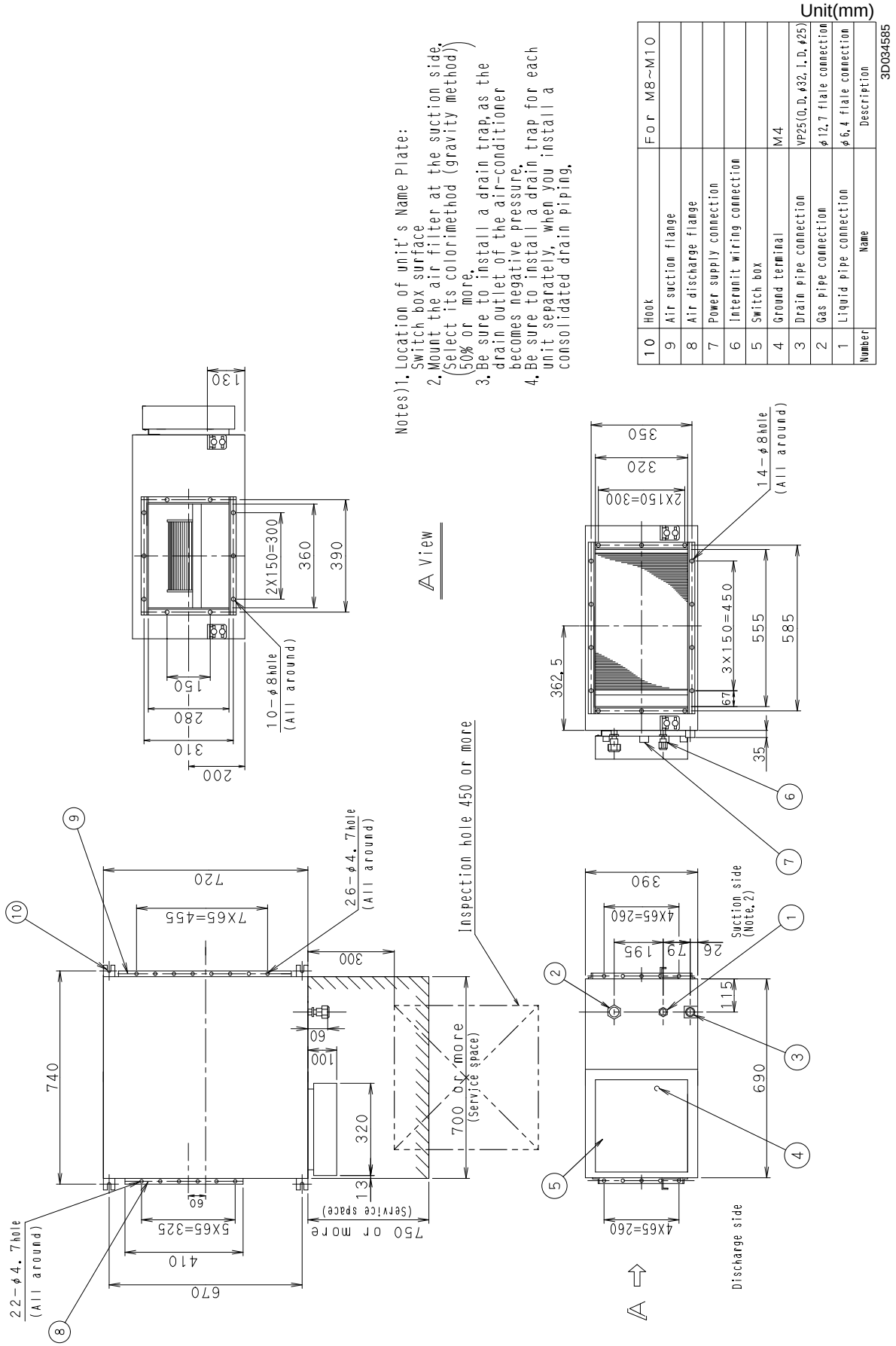
Notes:

Conversion Formulae
kcal/h=kW×860 Btu/h=kW×3414 cfm=m³/min×35.3

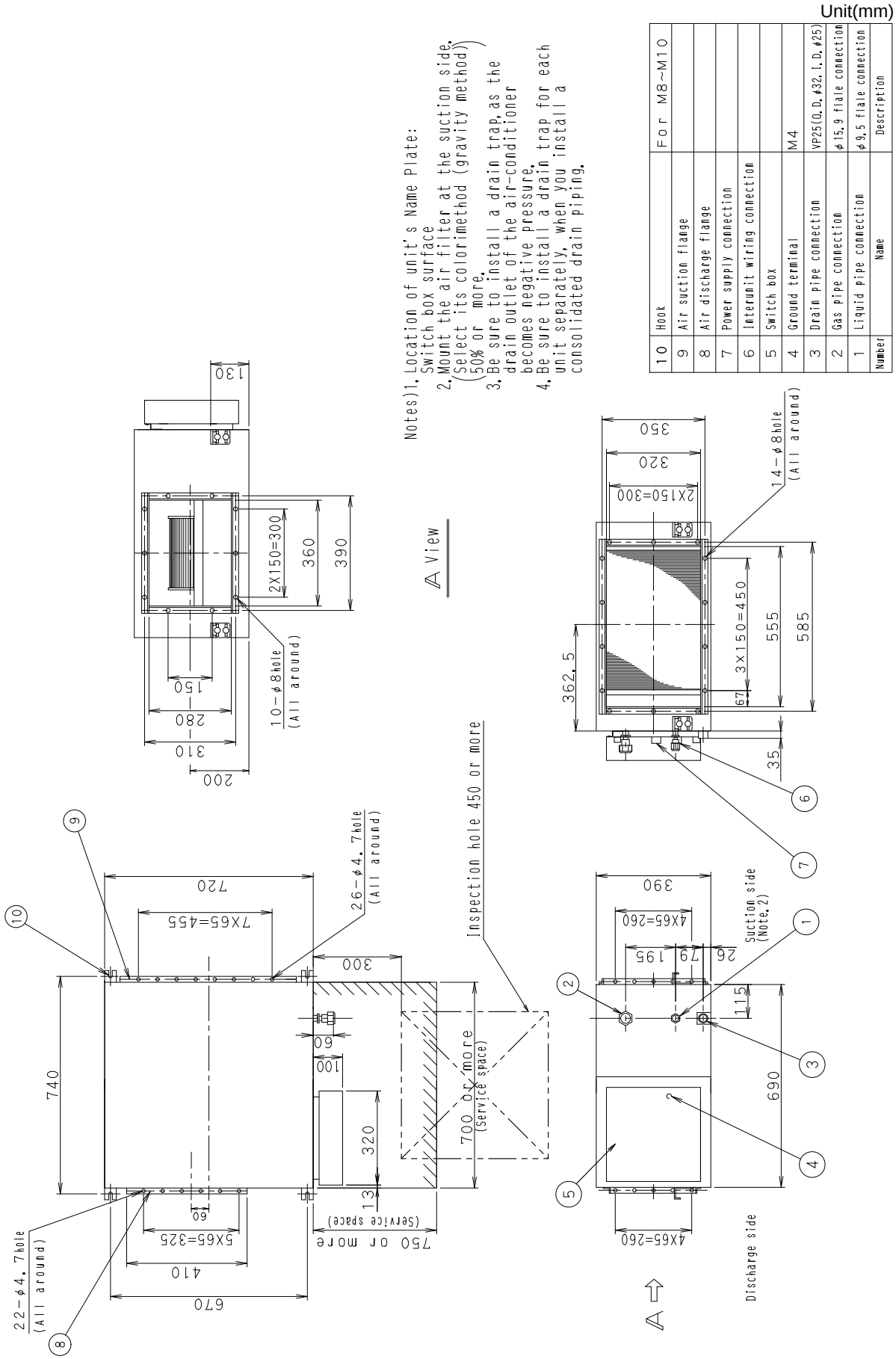
★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
★4 Static external pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure-Standard".
★5 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its colorimetric method (gravity method) 50% or more.
6 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★7 Anechoic chamber conversion value, measured at a point 1.5m downward from the unit center. These values are normally somewhat higher during actual operation as a result of ambient conditions.
8 Refer to page 235 for Fan Motor Input.

3. Dimensions

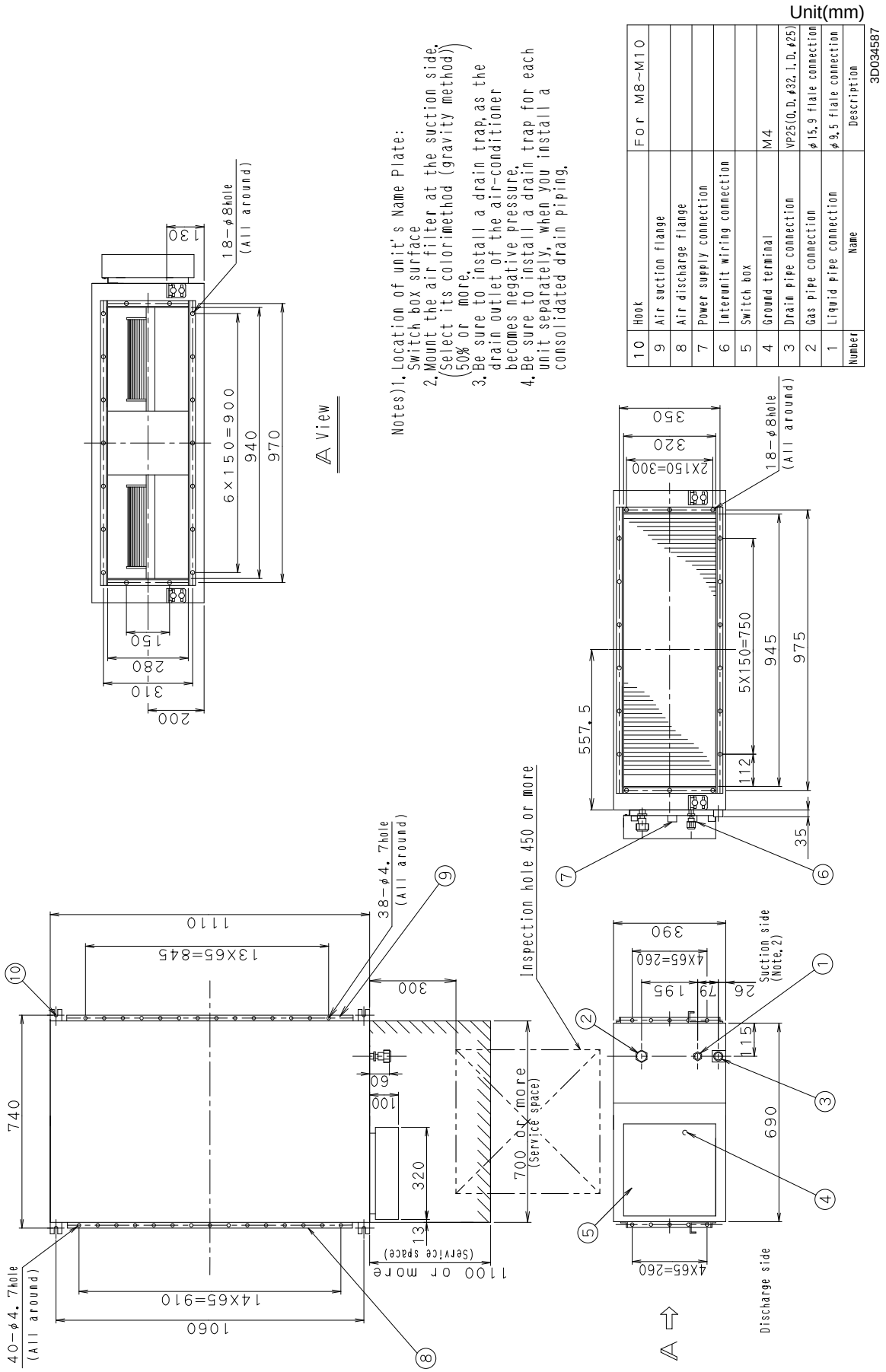
FXM40L



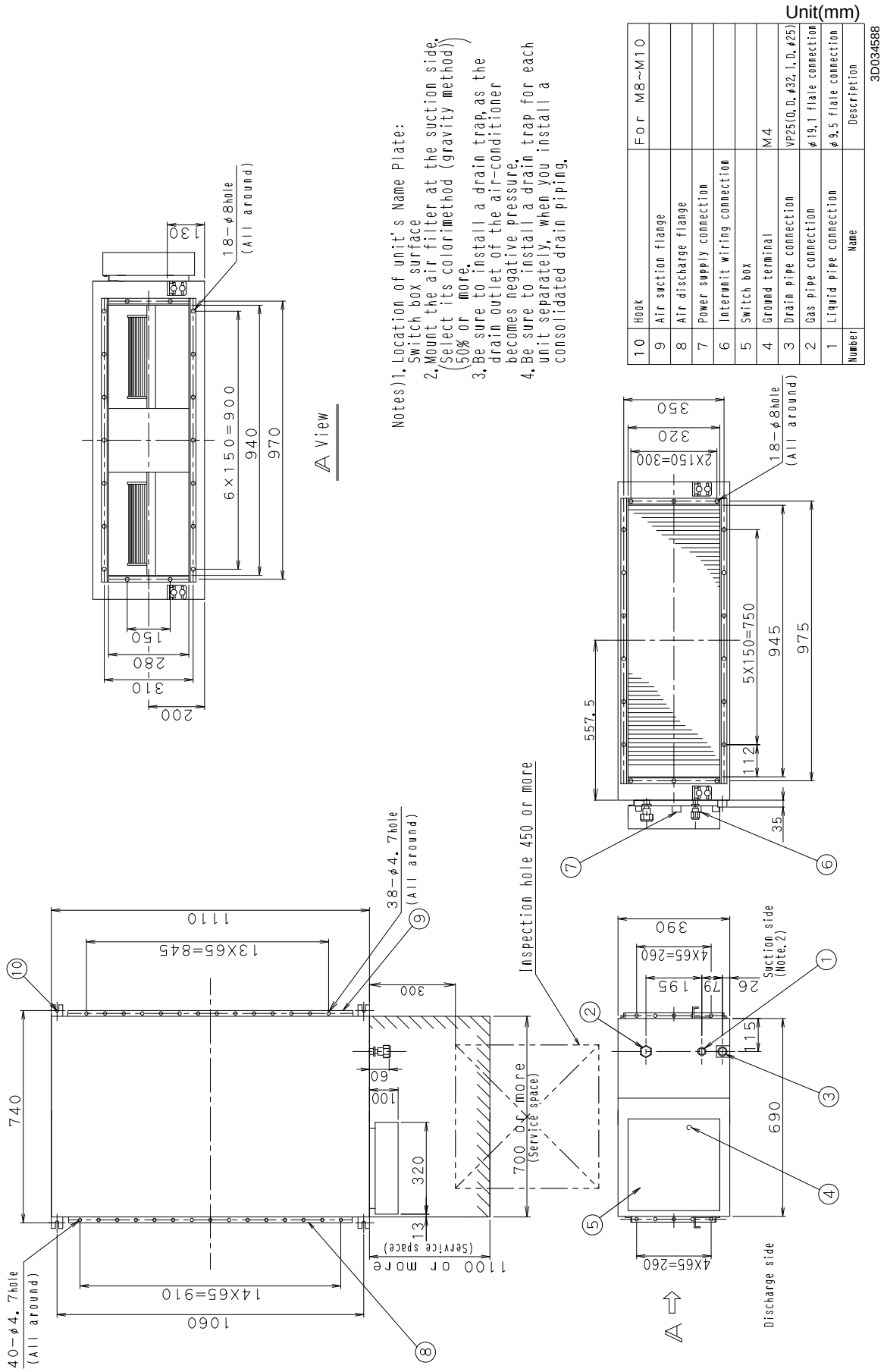
FXM50L
FXM63L



FXM80L


Unit(mm)
3D034587
Notes)1. Location of unit's Name Plate:
Switch box surface
2. Mount the air filter at the suction side.
(Select its colorimethod (gravity method))
50% or more.
3. Be sure to install a drain trap, as the
drain outlet of the air-conditioner
becomes negative pressure.
4. Be sure to install a drain trap for each
unit separately, when you install a
consolidated drain piping.
10 Hook For M8~M10
9 Air suction flange
8 Air discharge flange
7 Power supply connection
6 Interunit wiring connection
5 Switch box
4 Ground terminal M4
3 Drain pipe connection VP25(O.D. ϕ32, I.D. ϕ25)
2 Gas pipe connection ϕ15.9 flare connection
1 Liquid pipe connection ϕ9.5 flare connection
Number Name Description
A View
18-ϕ8hole (All around)
130
6×150=900
940
970
150
280
310
200
350
320
2X150=300
5X150=750
945
975
557.5
112
35
38-ϕ4.7hole (All around)
1110
13X65=845
300
740
60
100
320
13
700 or more (Service space)
Inspection hole 450 or more
1100 or more (Service space)
40-ϕ4.7hole (All around)
1060
14X65=910
390
4X65=260
26
79
195
115
690
Suction side (Note.2)
Discharge side
A

FXM100L
FXM125L



FXM200L
FXM250L

Unit(mm)

Number	Name	Description
13	Water supply port	
12	Drain piping connection	PS1B Internal thread Major dia. φ33.349, Minor dia. φ30.391
11	Name plate	
10	Attached piping	Brazing
9	Suction flange	
8	Discharge companion flange	
7	Hook	M10
6	Transmission wiring connection	
5	Power supply wiring connection	
4	Switch box	
3	Ground terminal	M5(Inside switch box)
2	Gas pipe connection	Attendant piping connection
1	Liquid pipe connection	Flare connection

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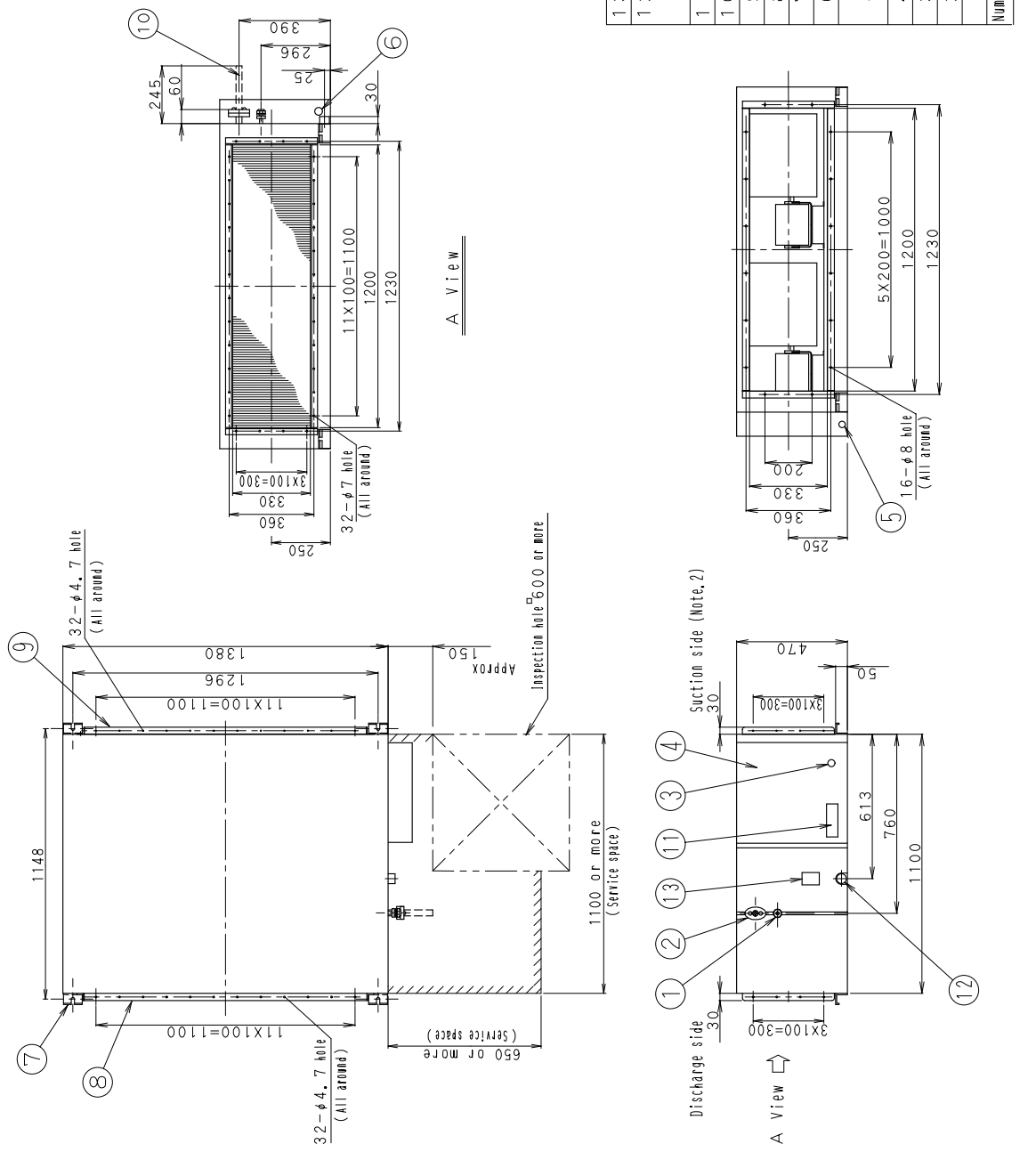
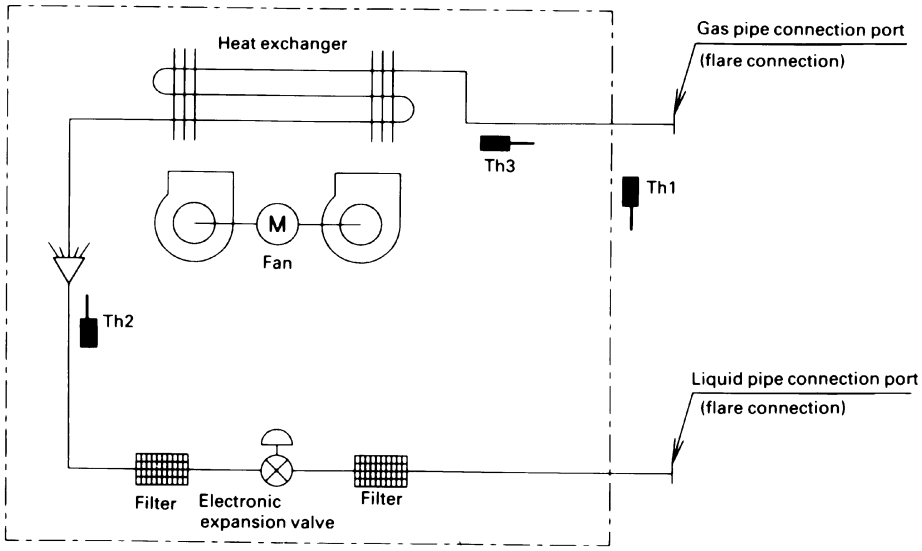
Piping size (Field supply)

Indoor unit	Gas side	Liquid side
FXM200LVE	φ25.4 attached piping	φ12.7
FXM250LVE	φ28.6 attached piping	φ12.7

Notes) 1. Location of unit's Name Plates:
Switch box surface
2. Mount the air filter at the suction side.
(Select its colorimethod (gravity method)
50% or more.



4. Piping Diagrams



Th1: Thermister for suction air temp.
Th2: Thermister for liquid line temp.
Th3: Thermister for gas line temp.

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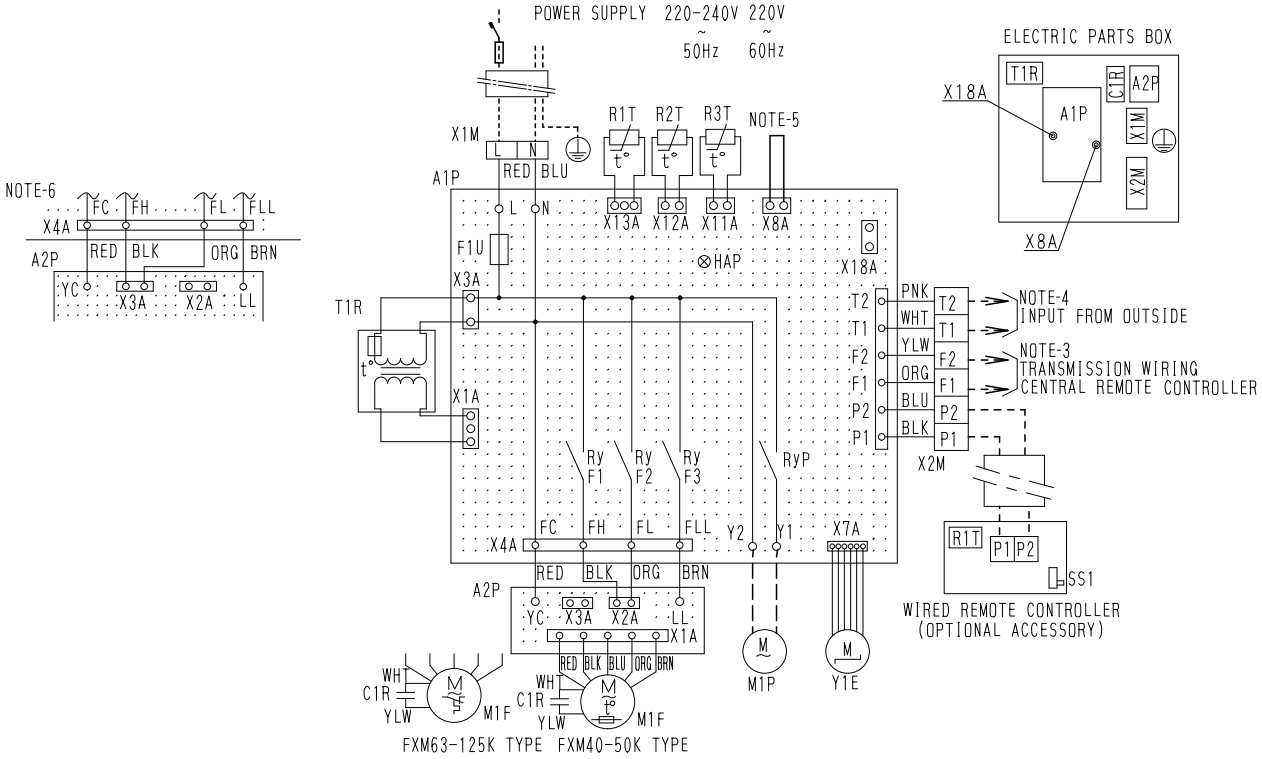
■ **Refrigerant pipe connection port diameters**

(mm)

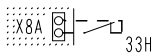
Model	Gas	Liquid
FXM40L	ϕ12.7	ϕ6.4
FXM50L / 63L / 80L	ϕ15.9	ϕ9.5
FXM100L / 125L	ϕ19.1	
FXM200L	ϕ25.4	ϕ12.7
FXM250L	ϕ28.6	

5. Wiring Diagrams

FXM 40L / 50L / 63L / 80L / 100L / 125LVE



NOTES)
1. ▭▭▭ :TERMINAL, ○○ , ⊐⊏ :CONNECTOR, —○— :WIRE CLAMP, ▭▭ :CONNECTOR
2. ---- :FIELD WIRING
3. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTRUCTION MANUAL.
4. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER. IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED THE UNIT.
5. IN CASE INSTALLING THE DRAIN PUMP, REMOVE THE JUMPER AND EXECUTE THE ADDITIONAL WIRING FOR FLOAT SWITCH(33H).



6. IN CASE HIGH E.S.P. OPERATION, CHANGE THE WIRING CONNECTION OF X2A AS SHOWN UPPER FIGURE.
7. SYMBOLS SHOW AS FOLLOWS. (PNK:PINK WHT:WHITE YLW:YELLOW ORG:ORANGE BLU:BLUE BLK:BLACK RED:RED BRN:BROWN)
8. USE COPPER CONDUCTORS ONLY.

A1P	PRINTED CIRCUIT BOARD	R1T	THERMISTOR(AIR)	CONNECTOR FOR OPTIONAL PARTS	
A2P	TERMINAL BOARD	R2T・3T	THERMISTOR(COIL)	X8A	CONNECTOR(FLOAT SWITCH)
C1R	CAPACITOR(M1F)	RyF1-3	MAGNETIC RELAY(M1F)	X18A	CONNECTOR(WIRING ADAPTOR FOR ELECTORICAL APPENDICES)
F1T	THERMAL FUSE(153℃) (M1F EMBEDDED ONLY40・50TYPE))	RyP	MAGNETIC RELAY(M1P)		
		T1R	TRANSFOMER(220-240V/22V)		
		X1M	TERMINAL STRIP(POWER)		
F1U	FUSE(250V, 10A, Ⓑ)) OR F10T 250V	X2M	TERMINAL STRIP(CONTROL)		
		Y1E	ELECTRONIC EXPANSION VALVE		
HAP	LIGHT EMISSION DIODE (SERVICE MONITOR-GREEN)	OPTIONAL PARTS			
		M1P	MOTOR (DRAIN PUMP)		
M1F	MOTOR(INDOOR FAN)	WIRED REMOTE CONTROLLER			
Q1F	THERMO SWITCH (M1F EMBEDDED ONLY63-125TYPE)	SS1	SELECTOR SWITCH (MAIN/SUB)		
		R1T	THERMISTOR(AIR)		
L-RED	N-BLUE				

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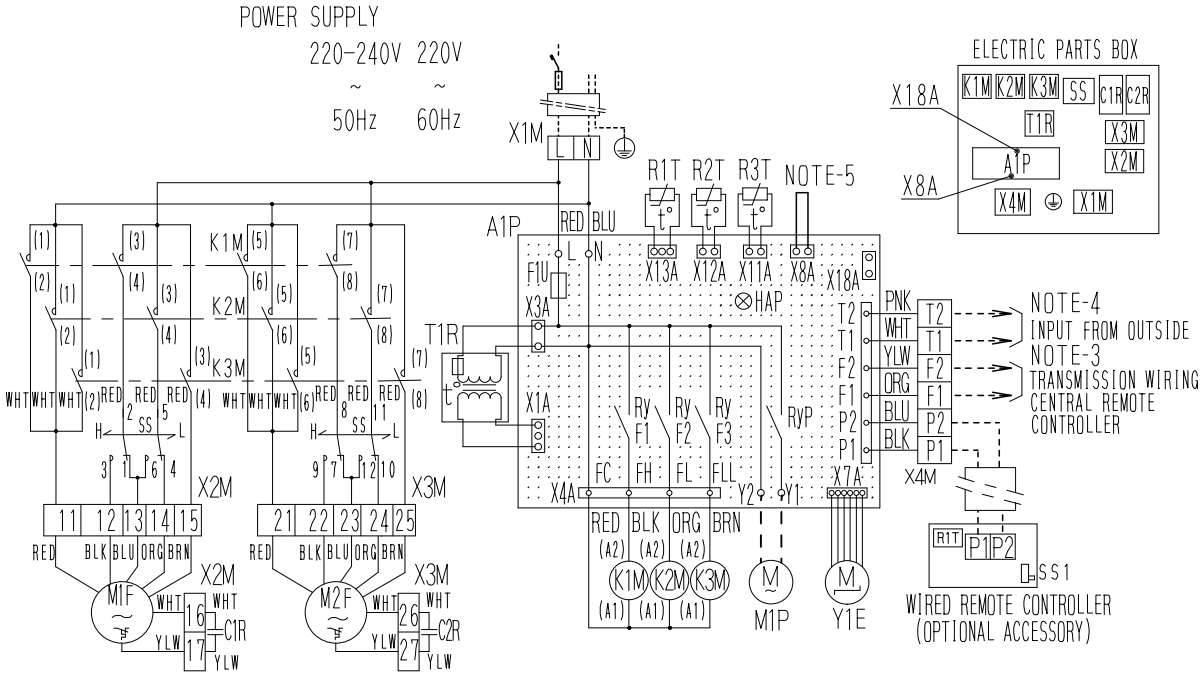
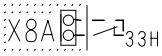
FXM 200L / 250LVE



NOTES)

1. ▭▭,—●—: TERMINAL ⊙⊙, ⊃⊂: CONNECTOR —○—: WIRE CLAMP ▭: JUMPER CONNECTOR
2. ---- :FIELD WIRING
3. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTRUCTION MANUAL.
4. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER. IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED THE UNIT.
5. IN CASE INSTALLING THE DRAIN PUMP, REMOVE THE JUMPER AND EXECUTE THE ADDITIONAL WIRING FOR FLOAT SWITCH(33H).



6. SYMBOLS SHOW AS FOLLOWS. (PNK:PINK WHT:WHITE YLW:YELLOW ORG:ORANGE BLU:BLUE BLK:BLACK RED:RED BRN:BROWN)
7. USE COPPER CONDUCTORS ONLY.
8. IN CASE HIGH E.S.P. OPERATION , CHANGE THE SWITCH(SS) FOR "H ".

A1P	PRINTED CIRCUIT BOARD	RyF1-F3	MAGNETIC RELAY(M1F・2F)
C1R・2R	CAPACITOR (M1F・2F)	RyP	MAGNETIC RELAY(M1P)
F1U	FUSE(250V,10A,Ⓑ) OR F10T 250V	SS	SELECTOR SWITCH (STATIC PRESSURE)
		T1R	TRANSFOMER(220-240V/22V)
HAP	LIGHT EMITTING DIODE (SERVICE MONITOR-GREEN)	X1M	TERMINAL STRIP(POWER)
		X2M-4M	TERMINAL STRIP(CONTROL)
K1M	MAGNETIC CONTACTOR(M1F・2F)	Y1E	ELECTRONIC EXPANSION VALVE
K2M	MAGNETIC CONTACTOR(M1F・2F)	OPTIONAL PARTS	
K3M	MAGNETIC CONTACTOR(M1F・2F)	M1P	MOTOR (DRAIN PUMP)
M1F・2F	MOTOR (INDOOR FAN)	WIRED REMOTE CONTROLLER	
Q1F	THERMO SWITCH (M1F・2F EMBEDDED)	R1T	THERMISTOR(AIR)
		SS1	SELECTOR SWITCH(MAIN/SUB)
R1T	THERMISTOR(AIR)	CONNECTOR FOR OPTIONAL PARTS	
R2T・3T	THERMISTOR(COIL)	X8A	CONNECTOR(FLOAT SWITCH)
L-RED	N-BLUE	X18A	CONNECTOR(WIRING ADAPTOR FOR ELECTORICAL APPENDICES)

3D034363

6. Capacity Tables

6.1 Cooling Capacity

FXM – L

Cooling capacity

Unit Size	Outdoor air temp. °CDB	Indoor air temp.													
		14.0°CWB		16.0°CWB		18.0°CWB		19.0°CWB		20.0°CWB		22.0°CWB		24.0°CWB	
		20°CDB		23°CDB		26°CDB		27°CDB		28°CDB		30°CDB		32°CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
40	10.0	3.1	2.9	3.7	3.2	4.2	3.5	4.5	3.5	4.8	3.5	5.3	3.7	5.9	3.7
	12.0	3.1	2.9	3.7	3.2	4.2	3.5	4.5	3.5	4.8	3.5	5.3	3.7	5.9	3.7
	14.0	3.1	2.9	3.7	3.2	4.2	3.5	4.5	3.5	4.8	3.5	5.3	3.7	5.9	3.7
	16.0	3.1	2.9	3.7	3.2	4.2	3.5	4.5	3.5	4.8	3.5	5.3	3.7	5.9	3.7
	18.0	3.1	2.9	3.7	3.2	4.2	3.5	4.5	3.5	4.8	3.5	5.3	3.7	5.9	3.7
	20.0	3.1	2.9	3.7	3.2	4.2	3.5	4.5	3.5	4.8	3.5	5.3	3.7	5.9	3.7
	21.0	3.1	2.9	3.7	3.2	4.2	3.5	4.5	3.5	4.8	3.5	5.3	3.7	5.9	3.7
	23.0	3.1	2.9	3.7	3.2	4.2	3.5	4.5	3.5	4.8	3.5	5.3	3.7	5.9	3.7
	25.0	3.1	2.9	3.7	3.2	4.2	3.5	4.5	3.5	4.8	3.5	5.3	3.7	5.8	3.7
	27.0	3.1	2.9	3.7	3.2	4.2	3.5	4.5	3.5	4.8	3.5	5.3	3.7	5.7	3.7
	29.0	3.1	2.9	3.7	3.2	4.2	3.5	4.5	3.5	4.8	3.5	5.3	3.6	5.6	3.6
	31.0	3.1	2.9	3.7	3.2	4.2	3.5	4.5	3.5	4.8	3.5	5.2	3.6	5.5	3.6
	33.0	3.1	2.9	3.7	3.2	4.2	3.5	4.5	3.5	4.8	3.5	5.1	3.6	5.4	3.6
	35.0	3.1	2.9	3.7	3.2	4.2	3.5	4.5	3.5	4.7	3.5	5.0	3.5	5.3	3.5
	37.0	3.1	2.9	3.7	3.2	4.2	3.5	4.5	3.5	4.6	3.5	4.9	3.5	5.2	3.5
	39.0	3.1	2.9	3.7	3.2	4.2	3.5	4.4	3.5	4.5	3.5	4.8	3.5	5.1	3.4
50	10.0	3.9	3.3	4.6	3.6	5.3	4.0	5.6	4.1	5.9	4.2	6.6	4.3	7.3	4.3
	12.0	3.9	3.3	4.6	3.6	5.3	4.0	5.6	4.1	5.9	4.2	6.6	4.3	7.3	4.3
	14.0	3.9	3.3	4.6	3.6	5.3	4.0	5.6	4.1	5.9	4.2	6.6	4.3	7.3	4.3
	16.0	3.9	3.3	4.6	3.6	5.3	4.0	5.6	4.1	5.9	4.2	6.6	4.3	7.3	4.3
	18.0	3.9	3.3	4.6	3.6	5.3	4.0	5.6	4.1	5.9	4.2	6.6	4.3	7.3	4.3
	20.0	3.9	3.3	4.6	3.6	5.3	4.0	5.6	4.1	5.9	4.2	6.6	4.3	7.3	4.3
	21.0	3.9	3.3	4.6	3.6	5.3	4.0	5.6	4.1	5.9	4.2	6.6	4.3	7.3	4.3
	23.0	3.9	3.3	4.6	3.6	5.3	4.0	5.6	4.1	5.9	4.2	6.6	4.3	7.3	4.3
	25.0	3.9	3.3	4.6	3.6	5.3	4.0	5.6	4.1	5.9	4.2	6.6	4.3	7.2	4.3
	27.0	3.9	3.3	4.6	3.6	5.3	4.0	5.6	4.1	5.9	4.2	6.6	4.3	7.1	4.2
	29.0	3.9	3.3	4.6	3.6	5.3	4.0	5.6	4.1	5.9	4.2	6.6	4.2	7.0	4.2
	31.0	3.9	3.3	4.6	3.6	5.3	4.0	5.6	4.1	5.9	4.2	6.5	4.2	6.8	4.1
	33.0	3.9	3.3	4.6	3.6	5.3	4.0	5.6	4.1	5.9	4.2	6.3	4.1	6.7	4.1
	35.0	3.9	3.3	4.6	3.6	5.3	4.0	5.6	4.1	5.9	4.1	6.2	4.1	6.6	4.0
	37.0	3.9	3.3	4.6	3.6	5.3	4.0	5.6	4.1	5.8	4.0	6.1	4.0	6.5	4.0
	39.0	3.9	3.3	4.6	3.6	5.3	4.0	5.5	4.0	5.7	4.0	6.0	4.0	6.4	3.9
63	10.0	4.9	4.3	5.8	4.7	6.7	5.1	7.1	5.1	7.5	5.2	8.4	5.4	9.3	5.5
	12.0	4.9	4.3	5.8	4.7	6.7	5.1	7.1	5.1	7.5	5.2	8.4	5.4	9.3	5.5
	14.0	4.9	4.3	5.8	4.7	6.7	5.1	7.1	5.1	7.5	5.2	8.4	5.4	9.3	5.5
	16.0	4.9	4.3	5.8	4.7	6.7	5.1	7.1	5.1	7.5	5.2	8.4	5.4	9.3	5.5
	18.0	4.9	4.3	5.8	4.7	6.7	5.1	7.1	5.1	7.5	5.2	8.4	5.4	9.3	5.5
	20.0	4.9	4.3	5.8	4.7	6.7	5.1	7.1	5.1	7.5	5.2	8.4	5.4	9.3	5.5
	21.0	4.9	4.3	5.8	4.7	6.7	5.1	7.1	5.1	7.5	5.2	8.4	5.4	9.3	5.5
	23.0	4.9	4.3	5.8	4.7	6.7	5.1	7.1	5.1	7.5	5.2	8.4	5.4	9.3	5.5
	25.0	4.9	4.3	5.8	4.7	6.7	5.1	7.1	5.1	7.5	5.2	8.4	5.4	9.1	5.4
	27.0	4.9	4.3	5.8	4.7	6.7	5.1	7.1	5.1	7.5	5.2	8.4	5.4	9.0	5.3
	29.0	4.9	4.3	5.8	4.7	6.7	5.1	7.1	5.1	7.5	5.2	8.3	5.3	8.8	5.3
	31.0	4.9	4.3	5.8	4.7	6.7	5.1	7.1	5.1	7.5	5.2	8.2	5.3	8.7	5.2
	33.0	4.9	4.3	5.8	4.7	6.7	5.1	7.1	5.1	7.5	5.2	8.0	5.2	8.5	5.2
	35.0	4.9	4.3	5.8	4.7	6.7	5.1	7.1	5.1	7.4	5.2	7.9	5.2	8.4	5.1
	37.0	4.9	4.3	5.8	4.7	6.7	5.1	7.1	5.1	7.3	5.1	7.8	5.1	8.2	5.1
	39.0	4.9	4.3	5.8	4.7	6.7	5.1	6.9	5.1	7.2	5.1	7.6	5.1	8.1	5.0
80	10.0	6.2	5.8	7.3	6.3	8.5	6.8	9.0	7.0	9.5	7.1	10.7	7.3	11.8	7.4
	12.0	6.2	5.8	7.3	6.3	8.5	6.8	9.0	7.0	9.5	7.1	10.7	7.3	11.8	7.4
	14.0	6.2	5.8	7.3	6.3	8.5	6.8	9.0	7.0	9.5	7.1	10.7	7.3	11.8	7.4
	16.0	6.2	5.8	7.3	6.3	8.5	6.8	9.0	7.0	9.5	7.1	10.7	7.3	11.8	7.4
	18.0	6.2	5.8	7.3	6.3	8.5	6.8	9.0	7.0	9.5	7.1	10.7	7.3	11.8	7.4
	20.0	6.2	5.8	7.3	6.3	8.5	6.8	9.0	7.0	9.5	7.1	10.7	7.3	11.8	7.4
	21.0	6.2	5.8	7.3	6.3	8.5	6.8	9.0	7.0	9.5	7.1	10.7	7.3	11.8	7.4
	23.0	6.2	5.8	7.3	6.3	8.5	6.8	9.0	7.0	9.5	7.1	10.7	7.3	11.8	7.4
	25.0	6.2	5.8	7.3	6.3	8.5	6.8	9.0	7.0	9.5	7.1	10.7	7.3	11.6	7.3
	27.0	6.2	5.8	7.3	6.3	8.5	6.8	9.0	7.0	9.5	7.1	10.7	7.3	11.4	7.2
	29.0	6.2	5.8	7.3	6.3	8.5	6.8	9.0	7.0	9.5	7.1	10.6	7.2	11.2	7.2
	31.0	6.2	5.8	7.3	6.3	8.5	6.8	9.0	7.0	9.5	7.1	10.4	7.1	11.0	7.1
	33.0	6.2	5.8	7.3	6.3	8.5	6.8	9.0	7.0	9.5	7.1	10.2	7.1	10.8	7.0
	35.0	6.2	5.8	7.3	6.3	8.5	6.8	9.0	7.0	9.4	7.0	10.0	7.0	10.6	6.9
	37.0	6.2	5.8	7.3	6.3	8.5	6.8	9.0	6.9	9.3	6.9	9.8	6.9	10.4	6.9
	39.0	6.2	5.8	7.3	6.3	8.5	6.8	8.8	6.9	9.1	6.9	9.7	6.8	10.2	6.8

Cooling capacity

Unit Size	Outdoor air temp. °CDB	Indoor air temp.													
		14.0°CWB		16.0°CWB		18.0°CWB		19.0°CWB		20.0°CWB		22.0°CWB		24.0°CWB	
		20°CDB		23°CDB		26°CDB		27°CDB		28°CDB		30°CDB		32°CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
100	10.0	7.7	6.9	9.1	7.5	10.5	8.3	11.2	8.3	11.9	8.4	13.3	8.6	14.7	8.8
	12.0	7.7	6.9	9.1	7.5	10.5	8.3	11.2	8.3	11.9	8.4	13.3	8.6	14.7	8.8
	14.0	7.7	6.9	9.1	7.5	10.5	8.3	11.2	8.3	11.9	8.4	13.3	8.6	14.7	8.8
	16.0	7.7	6.9	9.1	7.5	10.5	8.3	11.2	8.3	11.9	8.4	13.3	8.6	14.7	8.8
	18.0	7.7	6.9	9.1	7.5	10.5	8.3	11.2	8.3	11.9	8.4	13.3	8.6	14.7	8.8
	20.0	7.7	6.9	9.1	7.5	10.5	8.3	11.2	8.3	11.9	8.4	13.3	8.6	14.7	8.8
	21.0	7.7	6.9	9.1	7.5	10.5	8.3	11.2	8.3	11.9	8.4	13.3	8.6	14.7	8.8
	23.0	7.7	6.9	9.1	7.5	10.5	8.3	11.2	8.3	11.9	8.4	13.3	8.6	14.6	8.8
	25.0	7.7	6.9	9.1	7.5	10.5	8.3	11.2	8.3	11.9	8.4	13.3	8.6	14.4	8.7
	27.0	7.7	6.9	9.1	7.5	10.5	8.3	11.2	8.3	11.9	8.4	13.3	8.6	14.2	8.6
	29.0	7.7	6.9	9.1	7.5	10.5	8.3	11.2	8.3	11.9	8.4	13.2	8.6	13.9	8.5
	31.0	7.7	6.9	9.1	7.5	10.5	8.3	11.2	8.3	11.9	8.4	12.9	8.5	13.7	8.4
	33.0	7.7	6.9	9.1	7.5	10.5	8.3	11.2	8.3	11.9	8.4	12.7	8.5	13.4	8.3
	35.0	7.7	6.9	9.1	7.5	10.5	8.3	11.2	8.3	11.7	8.4	12.5	8.4	13.2	8.2
	37.0	7.7	6.9	9.1	7.5	10.5	8.3	11.2	8.3	11.5	8.3	12.2	8.3	13.0	8.1
	39.0	7.7	6.9	9.1	7.5	10.5	8.3	11.0	8.2	11.3	8.2	12.0	8.2	12.7	8.0
125	10.0	9.7	8.4	11.4	9.2	13.2	10.1	14.0	10.2	14.9	10.4	16.6	10.7	18.4	10.9
	12.0	9.7	8.4	11.4	9.2	13.2	10.1	14.0	10.2	14.9	10.4	16.6	10.7	18.4	10.9
	14.0	9.7	8.4	11.4	9.2	13.2	10.1	14.0	10.2	14.9	10.4	16.6	10.7	18.4	10.9
	16.0	9.7	8.4	11.4	9.2	13.2	10.1	14.0	10.2	14.9	10.4	16.6	10.7	18.4	10.9
	18.0	9.7	8.4	11.4	9.2	13.2	10.1	14.0	10.2	14.9	10.4	16.6	10.7	18.4	10.9
	20.0	9.7	8.4	11.4	9.2	13.2	10.1	14.0	10.2	14.9	10.4	16.6	10.7	18.4	10.9
	21.0	9.7	8.4	11.4	9.2	13.2	10.1	14.0	10.2	14.9	10.4	16.6	10.7	18.4	10.9
	23.0	9.7	8.4	11.4	9.2	13.2	10.1	14.0	10.2	14.9	10.4	16.6	10.7	18.3	10.9
	25.0	9.7	8.4	11.4	9.2	13.2	10.1	14.0	10.2	14.9	10.4	16.6	10.7	18.0	10.8
	27.0	9.7	8.4	11.4	9.2	13.2	10.1	14.0	10.2	14.9	10.4	16.6	10.7	17.7	10.7
	29.0	9.7	8.4	11.4	9.2	13.2	10.1	14.0	10.2	14.9	10.4	16.5	10.7	17.4	10.6
	31.0	9.7	8.4	11.4	9.2	13.2	10.1	14.0	10.2	14.9	10.4	16.2	10.5	17.1	10.5
	33.0	9.7	8.4	11.4	9.2	13.2	10.1	14.0	10.2	14.9	10.4	15.9	10.4	16.8	10.4
	35.0	9.7	8.4	11.4	9.2	13.2	10.1	14.0	10.2	14.7	10.3	15.6	10.3	16.5	10.3
	37.0	9.7	8.4	11.4	9.2	13.2	10.1	14.0	10.2	14.4	10.2	15.3	10.2	16.2	10.2
	39.0	9.7	8.4	11.4	9.2	13.2	10.1	13.7	10.1	14.2	10.0	15.1	10.1	15.9	10.0
200	10.0	15.4	13.7	18.2	15.0	21.0	16.4	22.4	16.7	23.8	16.8	26.6	17.4	29.4	17.6
	12.0	15.4	13.7	18.2	15.0	21.0	16.4	22.4	16.7	23.8	16.8	26.6	17.4	29.4	17.6
	14.0	15.4	13.7	18.2	15.0	21.0	16.4	22.4	16.7	23.8	16.8	26.6	17.4	29.4	17.6
	16.0	15.4	13.7	18.2	15.0	21.0	16.4	22.4	16.7	23.8	16.8	26.6	17.4	29.4	17.6
	18.0	15.4	13.7	18.2	15.0	21.0	16.4	22.4	16.7	23.8	16.8	26.6	17.4	29.4	17.6
	20.0	15.4	13.7	18.2	15.0	21.0	16.4	22.4	16.7	23.8	16.8	26.6	17.4	29.4	17.6
	21.0	15.4	13.7	18.2	15.0	21.0	16.4	22.4	16.7	23.8	16.8	26.6	17.4	29.4	17.6
	23.0	15.4	13.7	18.2	15.0	21.0	16.4	22.4	16.7	23.8	16.8	26.6	17.4	29.3	17.6
	25.0	15.4	13.7	18.2	15.0	21.0	16.4	22.4	16.7	23.8	16.8	26.6	17.4	28.8	17.5
	27.0	15.4	13.7	18.2	15.0	21.0	16.4	22.4	16.7	23.8	16.8	26.6	17.4	28.3	17.3
	29.0	15.4	13.7	18.2	15.0	21.0	16.4	22.4	16.7	23.8	16.8	26.3	17.3	27.8	17.0
	31.0	15.4	13.7	18.2	15.0	21.0	16.4	22.4	16.7	23.8	16.8	25.8	17.1	27.4	16.9
	33.0	15.4	13.7	18.2	15.0	21.0	16.4	22.4	16.7	23.8	16.8	25.4	16.8	26.9	16.7
	35.0	15.4	13.7	18.2	15.0	21.0	16.4	22.4	16.7	23.4	16.7	25.0	16.7	26.4	16.5
	37.0	15.4	13.7	18.2	15.0	21.0	16.4	22.3	16.7	23.0	16.5	24.5	16.4	25.9	16.3
	39.0	15.4	13.7	18.2	15.0	21.0	16.4	21.9	16.5	22.6	16.3	24.1	16.3	25.4	16.1
250	10.0	19.3	16.9	22.8	18.3	26.3	20.1	28.0	20.3	29.7	20.8	33.2	21.4	36.7	21.7
	12.0	19.3	16.9	22.8	18.3	26.3	20.1	28.0	20.3	29.7	20.8	33.2	21.4	36.7	21.7
	14.0	19.3	16.9	22.8	18.3	26.3	20.1	28.0	20.3	29.7	20.8	33.2	21.4	36.7	21.7
	16.0	19.3	16.9	22.8	18.3	26.3	20.1	28.0	20.3	29.7	20.8	33.2	21.4	36.7	21.7
	18.0	19.3	16.9	22.8	18.3	26.3	20.1	28.0	20.3	29.7	20.8	33.2	21.4	36.7	21.7
	20.0	19.3	16.9	22.8	18.3	26.3	20.1	28.0	20.3	29.7	20.8	33.2	21.4	36.7	21.7
	21.0	19.3	16.9	22.8	18.3	26.3	20.1	28.0	20.3	29.7	20.8	33.2	21.4	36.7	21.7
	23.0	19.3	16.9	22.8	18.3	26.3	20.1	28.0	20.3	29.7	20.8	33.2	21.4	36.6	21.6
	25.0	19.3	16.9	22.8	18.3	26.3	20.1	28.0	20.3	29.7	20.8	33.2	21.4	36.0	21.3
	27.0	19.3	16.9	22.8	18.3	26.3	20.1	28.0	20.3	29.7	20.8	33.2	21.4	35.4	21.2
	29.0	19.3	16.9	22.8	18.3	26.3	20.1	28.0	20.3	29.7	20.8	32.9	21.3	34.8	20.9
	31.0	19.3	16.9	22.8	18.3	26.3	20.1	28.0	20.3	29.7	20.8	32.3	21.0	34.2	20.7
	33.0	19.3	16.9	22.8	18.3	26.3	20.1	28.0	20.3	29.7	20.8	31.7	20.8	33.6	20.5
	35.0	19.3	16.9	22.8	18.3	26.3	20.1	28.0	20.3	29.3	20.7	31.2	20.6	33.0	20.2
	37.0	19.3	16.9	22.8	18.3	26.3	20.1	27.9	20.3	28.8	20.4	30.6	20.3	32.4	20.0
	39.0	19.3	16.9	22.8	18.3	26.3	20.1	27.4	20.1	28.3	20.2	30.1	20.1	31.8	19.8

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables (in case of Inverter (5, 8, 10HP) : on page 380~, in case of PLUS (16~30HP) : on page 480~) for the actual performance data of each indoor and outdoor unit combination.

6.2 Heating Capacity

FXM-L

Heating Capacity

Unit Size	Outdoor air temp.		Indoor air temp.°CDB					
			16.0	18.0	20.0	21.0	22.0	24.0
	°CDB	°CWB	kW	kW	kW	kW	kW	kW
40	-13.7	-15.0	3.5	3.4	3.4	3.3	3.3	3.3
	-11.8	-13.0	3.7	3.6	3.6	3.5	3.5	3.5
	-9.8	-11.0	3.8	3.8	3.7	3.7	3.7	3.6
	-9.5	-10.0	3.9	3.9	3.8	3.8	3.8	3.7
	-8.5	-9.1	4.0	4.0	3.9	3.9	3.8	3.8
	-7.0	-7.6	4.1	4.1	4.0	4.0	4.0	3.9
	-5.0	-5.6	4.3	4.3	4.2	4.2	4.1	4.1
	-3.0	-3.7	4.5	4.4	4.4	4.3	4.3	4.2
	0.0	-0.7	4.8	4.7	4.6	4.6	4.6	4.2
	3.0	2.2	5.0	5.0	4.9	4.8	4.6	4.2
	5.0	4.1	5.2	5.1	5.0	4.8	4.6	4.2
	7.0	6.0	5.4	5.3	5.0	4.8	4.6	4.2
	9.0	7.9	5.5	5.4	5.0	4.8	4.6	4.2
	11.0	9.8	5.7	5.4	5.0	4.8	4.6	4.2
	13.0	11.8	5.8	5.4	5.0	4.8	4.6	4.2
	15.0	13.7	5.8	5.4	5.0	4.8	4.6	4.2
50	-13.7	-15.0	4.4	4.3	4.3	4.2	4.2	4.1
	-11.8	-13.0	4.6	4.5	4.5	4.4	4.4	4.4
	-9.8	-11.0	4.8	4.8	4.7	4.7	4.6	4.6
	-9.5	-10.0	4.9	4.9	4.8	4.8	4.7	4.7
	-8.5	-9.1	5.0	5.0	4.9	4.9	4.8	4.8
	-7.0	-7.6	5.2	5.1	5.1	5.0	5.0	4.9
	-5.0	-5.6	5.4	5.4	5.3	5.3	5.2	5.2
	-3.0	-3.7	5.7	5.6	5.5	5.5	5.4	5.3
	0.0	-0.7	6.0	5.9	5.8	5.8	5.8	5.3
	3.0	2.2	6.3	6.2	6.2	6.1	5.8	5.3
	5.0	4.1	6.5	6.5	6.3	6.1	5.8	5.3
	7.0	6.0	6.8	6.7	6.3	6.1	5.8	5.3
	9.0	7.9	7.0	6.8	6.3	6.1	5.8	5.3
	11.0	9.8	7.2	6.8	6.3	6.1	5.8	5.3
	13.0	11.8	7.3	6.8	6.3	6.1	5.8	5.3
	15.0	13.7	7.3	6.8	6.3	6.1	5.8	5.3
63	-13.7	-15.0	5.6	5.5	5.4	5.4	5.3	5.3
	-11.8	-13.0	5.8	5.8	5.7	5.6	5.6	5.5
	-9.8	-11.0	6.1	6.0	6.0	5.9	5.9	5.8
	-9.5	-10.0	6.3	6.2	6.1	6.1	6.0	5.9
	-8.5	-9.1	6.4	6.3	6.2	6.2	6.1	6.1
	-7.0	-7.6	6.6	6.5	6.5	6.4	6.4	6.3
	-5.0	-5.6	6.9	6.8	6.7	6.7	6.6	6.6
	-3.0	-3.7	7.2	7.1	7.0	7.0	6.9	6.8
	0.0	-0.7	7.6	7.5	7.4	7.4	7.3	6.8
	3.0	2.2	8.1	7.9	7.8	7.7	7.4	6.8
	5.0	4.1	8.3	8.2	8.0	7.7	7.4	6.8
	7.0	6.0	8.6	8.5	8.0	7.7	7.4	6.8
	9.0	7.9	8.9	8.6	8.0	7.7	7.4	6.8
	11.0	9.8	9.1	8.6	8.0	7.7	7.4	6.8
	13.0	11.8	9.2	8.6	8.0	7.7	7.4	6.8
	15.0	13.7	9.2	8.6	8.0	7.7	7.4	6.8
80	-13.7	-15.0	7.0	6.9	6.8	6.7	6.7	6.6
	-11.8	-13.0	7.3	7.2	7.1	7.0	7.0	6.9
	-9.8	-11.0	7.7	7.6	7.5	7.4	7.4	7.3
	-9.5	-10.0	7.8	7.7	7.7	7.6	7.5	7.4
	-8.5	-9.1	8.0	7.9	7.8	7.7	7.7	7.6
	-7.0	-7.6	8.3	8.2	8.1	8.0	8.0	7.8
	-5.0	-5.6	8.6	8.5	8.4	8.3	8.3	8.2
	-3.0	-3.7	9.0	8.9	8.8	8.7	8.6	8.4
	0.0	-0.7	9.5	9.4	9.3	9.2	9.1	8.4
	3.0	2.2	10.1	9.9	9.8	9.6	9.2	8.4
	5.0	4.1	10.4	10.3	10.0	9.6	9.2	8.4
	7.0	6.0	10.7	10.6	10.0	9.6	9.2	8.4
	9.0	7.9	11.1	10.8	10.0	9.6	9.2	8.4
	11.0	9.8	11.4	10.8	10.0	9.6	9.2	8.4
	13.0	11.8	11.6	10.8	10.0	9.6	9.2	8.4
	15.0	13.7	11.6	10.8	10.0	9.6	9.2	8.4

Heating Capacity

Unit Size	Outdoor air temp.		Indoor air temp.°CDB					
			16.0	18.0	20.0	21.0	22.0	24.0
	°CDB	°CWB	kW	kW	kW	kW	kW	kW
100	-13.7	-15.0	8.7	8.6	8.5	8.4	8.3	8.2
	-11.8	-13.0	9.1	9.0	8.9	8.8	8.8	8.7
	-9.8	-11.0	9.6	9.4	9.3	9.2	9.2	9.1
	-9.5	-10.0	9.8	9.7	9.6	9.5	9.4	9.3
	-8.5	-9.1	10.0	9.9	9.8	9.7	9.6	9.5
	-7.0	-7.6	10.4	10.2	10.1	10.0	10.0	9.8
	-5.0	-5.6	10.8	10.7	10.5	10.4	10.4	10.2
	-3.0	-3.7	11.2	11.1	11.0	10.9	10.8	10.6
	0.0	-0.7	11.9	11.7	11.6	11.5	11.4	10.6
	3.0	2.2	12.6	12.4	12.2	12.0	11.5	10.6
	5.0	4.1	13.0	12.8	12.5	12.0	11.5	10.6
	7.0	6.0	13.4	13.3	12.5	12.0	11.5	10.6
	9.0	7.9	13.8	13.5	12.5	12.0	11.5	10.6
	11.0	9.8	14.3	13.5	12.5	12.0	11.5	10.6
	13.0	11.8	14.4	13.5	12.5	12.0	11.5	10.6
	15.0	13.7	14.4	13.5	12.5	12.0	11.5	10.6
125	-13.7	-15.0	11.1	11.0	10.8	10.7	10.7	10.5
	-11.8	-13.0	11.7	11.5	11.4	11.3	11.2	11.1
	-9.8	-11.0	12.2	12.1	11.9	11.8	11.8	11.6
	-9.5	-10.0	12.5	12.4	12.2	12.1	12.0	11.9
	-8.5	-9.1	12.8	12.6	12.5	12.4	12.3	12.1
	-7.0	-7.6	13.3	13.1	12.9	12.8	12.7	12.5
	-5.0	-5.6	13.8	13.7	13.5	13.4	13.3	13.1
	-3.0	-3.7	14.4	14.2	14.0	13.9	13.8	13.5
	0.0	-0.7	15.2	15.0	14.8	14.7	14.6	13.5
	3.0	2.2	16.1	15.8	15.6	15.4	14.7	13.5
	5.0	4.1	16.6	16.4	16.0	15.4	14.7	13.5
	7.0	6.0	17.2	17.0	16.0	15.4	14.7	13.5
	9.0	7.9	17.7	17.3	16.0	15.4	14.7	13.5
	11.0	9.8	18.3	17.3	16.0	15.4	14.7	13.5
	13.0	11.8	18.5	17.3	16.0	15.4	14.7	13.5
	15.0	13.7	18.5	17.3	16.0	15.4	14.7	13.5
200	-13.7	-15.0	17.4	17.1	16.9	16.7	16.7	16.4
	-11.8	-13.0	18.3	18.0	17.8	17.6	17.5	17.3
	-9.8	-11.0	19.1	18.9	18.7	18.5	18.4	18.2
	-9.5	-10.0	19.6	19.4	19.1	19.0	18.8	18.6
	-8.5	-9.1	20.0	19.8	19.5	19.4	19.2	19.0
	-7.0	-7.6	20.7	20.4	20.2	20.0	19.9	19.6
	-5.0	-5.6	21.6	21.3	21.0	20.9	20.7	20.5
	-3.0	-3.7	22.5	22.1	21.9	21.7	21.6	21.1
	0.0	-0.7	23.8	23.5	23.2	23.0	22.9	21.1
	3.0	2.2	25.2	24.8	24.4	24.0	23.0	21.1
	5.0	4.1	26.0	25.6	25.0	24.0	23.0	21.1
	7.0	6.0	26.8	26.5	25.0	24.0	23.0	21.1
	9.0	7.9	27.7	27.0	25.0	24.0	23.0	21.1
	11.0	9.8	28.6	27.0	25.0	24.0	23.0	21.1
	13.0	11.8	28.9	27.0	25.0	24.0	23.0	21.1
	15.0	13.7	28.9	27.0	25.0	24.0	23.0	21.1
250	-13.7	-15.0	21.9	21.6	21.3	21.1	21.0	20.7
	-11.8	-13.0	23.0	22.7	22.4	22.2	22.1	21.8
	-9.8	-11.0	24.1	23.8	23.5	23.3	23.2	22.9
	-9.5	-10.0	24.7	24.4	24.1	23.9	23.7	23.4
	-8.5	-9.1	25.2	24.9	24.6	24.4	24.2	23.9
	-7.0	-7.6	26.1	25.7	25.4	25.2	25.1	24.7
	-5.0	-5.6	27.2	26.9	26.5	26.3	26.1	25.8
	-3.0	-3.7	28.3	27.9	27.6	27.4	27.2	26.6
	0.0	-0.7	30.0	29.6	29.2	29.0	28.8	26.6
	3.0	2.2	31.7	31.2	30.8	30.3	29.0	26.6
	5.0	4.1	32.7	32.3	31.5	30.3	29.0	26.6
	7.0	6.0	33.8	33.4	31.5	30.3	29.0	26.6
	9.0	7.9	34.9	34.0	31.5	30.3	29.0	26.6
	11.0	9.8	36.0	34.0	31.5	30.3	29.0	26.6
	13.0	11.8	36.4	34.0	31.5	30.3	29.0	26.6
	15.0	13.7	36.4	34.0	31.5	30.3	29.0	26.6

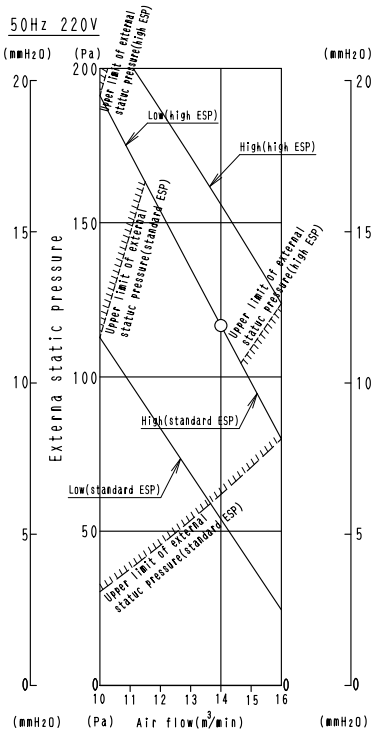
TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables (in case of Inverter (5, 8, 10HP) : on page 380~, in case of PLUS (16~30HP) : on page 480~) for the actual performance data of each indoor and outdoor unit combination.

7. Fan Performances

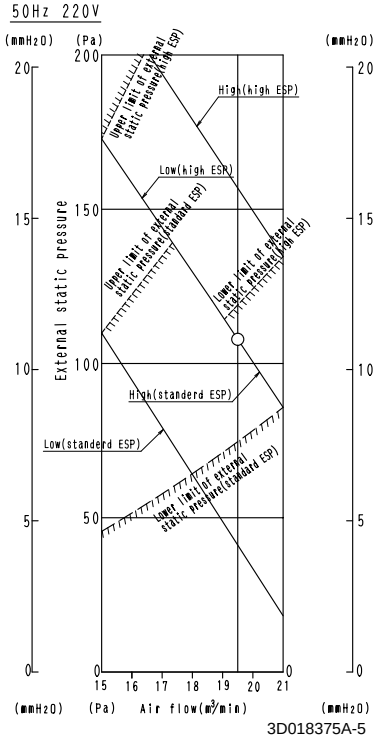
7.1 50Hz

FXM40L·50L



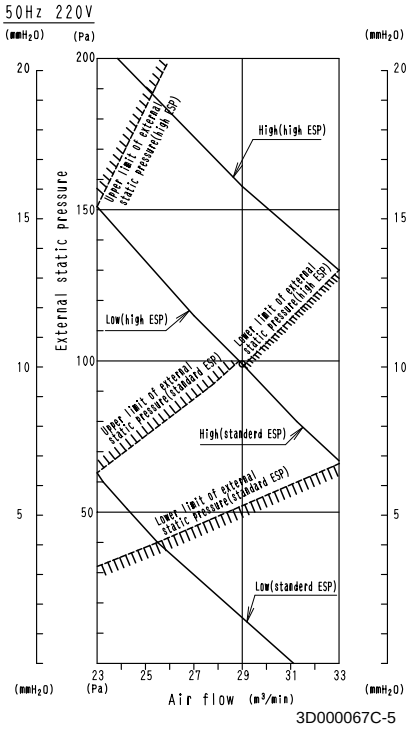
3D019610A-5

FXM63L



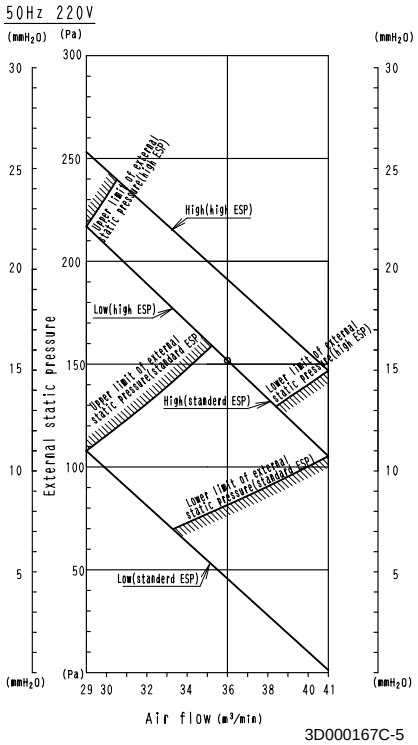
3D018375A-5

FXM80L·100L



3D000067C-5

FXM125L



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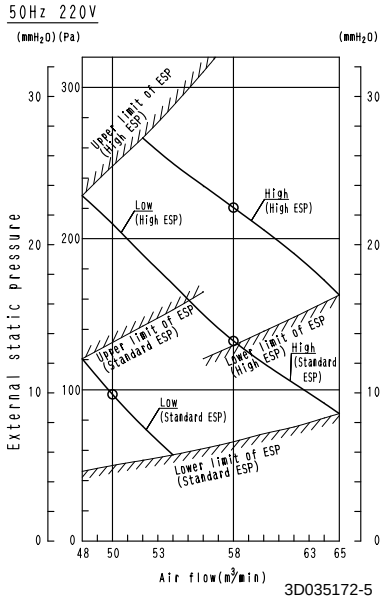
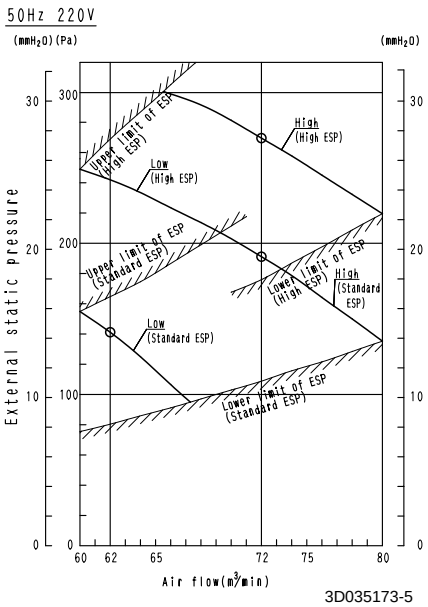
FXM200L



3D035172-5

FXM250L



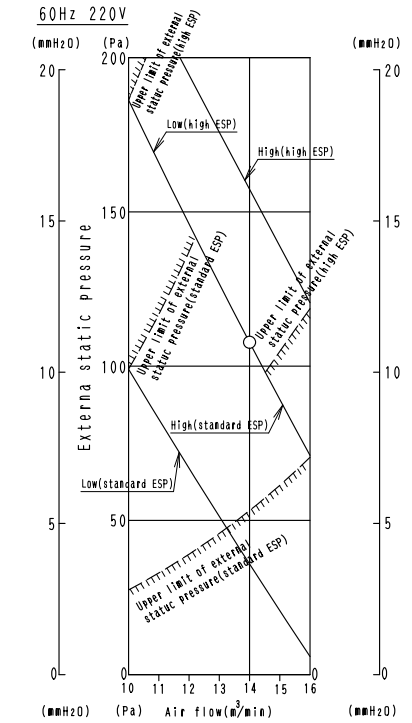
3D035173-5

Note:

1. The remote controller can be used to switch between “high” and “low”.
2. The air flow is set to “standard” before leaving the factory. It is possible to switch between “standard ESP” and “high ESP” by changing the terminals switch in the indoor unit electrical box.

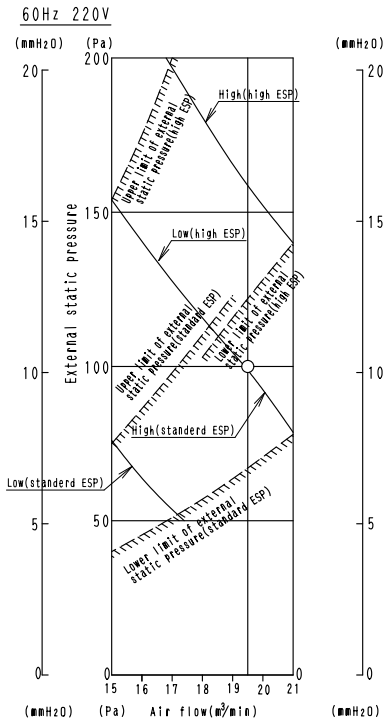
7.2 60Hz

FXM40L·50L



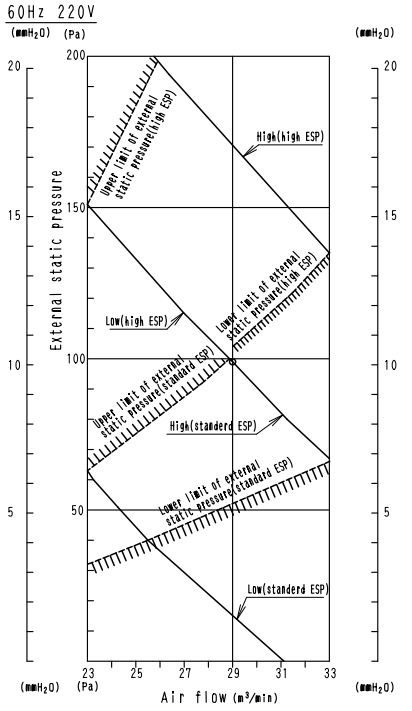
3D019610A-6

FXM63L



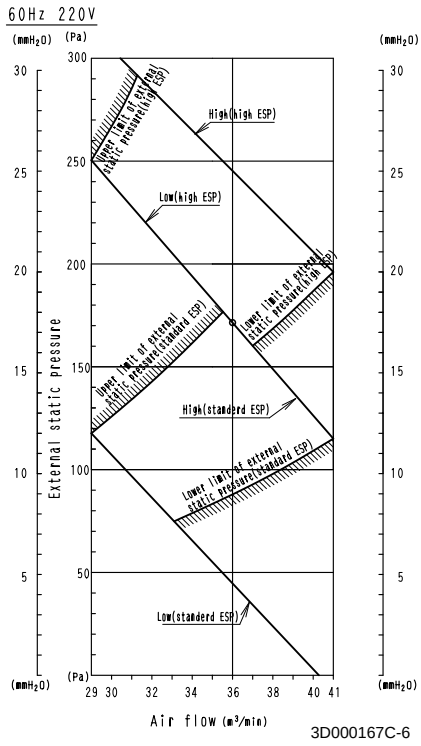
3D018375A-6

FXM80L·100L



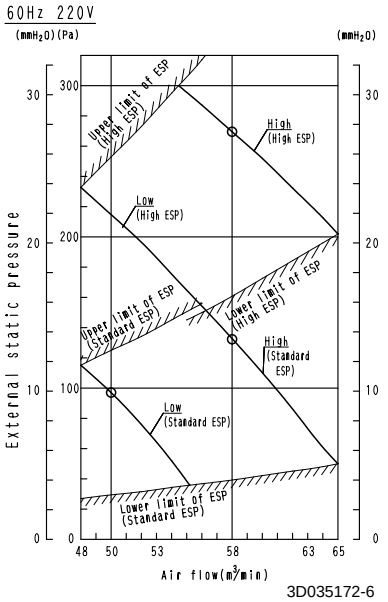
3D000067C-6

FXM125L



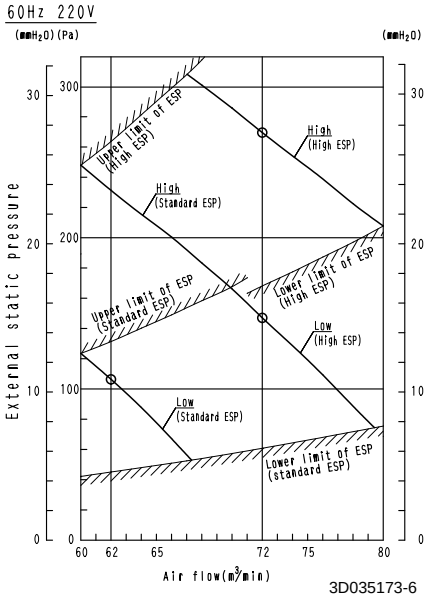
3D000167C-6

FXM200L



3D035172-6

FXM250L



3D035173-6

Note:

1. The remote controller can be used to switch between “high” and “low”.
2. The air flow is set to “standard” before leaving the factory. It is possible to switch between “standard ESP” and “high ESP” by changing the terminals switch in the indoor unit electrical box.

8. Electric Characteristics

Units					Power supply		IFM		Input(W)	
Model	Type	Hz	Volts	Voltage range	MCA	MFA	KW	FLA	Cooling	Heating
FXM40・50L	VE	50	220-240	MAX. 264 Min. 198	1.3	15	0.100	1.0	211	211
FXM63L					1.5	15	0.160	1.2	284	284
FXM80・100L					2.5	15	0.270	2.0	411	411
FXM125L					3.8	15	0.430	3.0	619	619
FXM200L					8.1	15	0.380×2	6.5	1294	1294
FXM250L					9.0	15	0.380×2	7.2	1465	1465
FXM40・50L	VE	60	220	MAX. 242 Min. 198	1.4	15	0.100	1.1	225	225
FXM63L					1.6	15	0.160	1.3	307	307
FXM80・100L					3.0	15	0.270	2.4	451	451
FXM125L					4.4	15	0.430	3.5	745	745
FXM200L					9.0	15	0.380×2	7.2	1490	1490
FXM250L					10.1	15	0.380×2	8.1	1684	1684

6

Symbols:

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note 5)
KW : Fan Motor Rated Output(KW)
FLA : Full Load Amps(A)
IFM : Indoor Fan Motor

Note:

1. Voltage range

   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.

2. Maximum allowable voltage unbalance between phases is 2%.

3. MCA/MFA

   MCA = 1.25 X FLA

   MFA ≦ 4 X FLA

   (Next lower standard fuse rating. Min. 15A)

4. Select wire size based on the MCA.

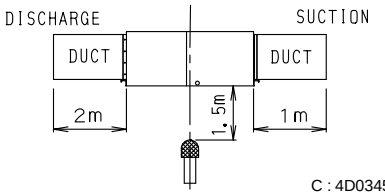
5. Instead of fuse, use Circuit Breaker.

4D034592

9. Sound Levels

Overall

■ **Ceiling Mounted Duct Type**



C : 4D034593

dBA

Model	220V 50/60Hz		240V 50/60Hz	
	H	L	H	L
FXM40L FXM50L	39	35	41	37
FXM63L	42	38	44	40
FXM80L FXM100L	43	39	45	41
FXM125L	45	42	47	44
FXM200L FXM250L	48	45	49	46

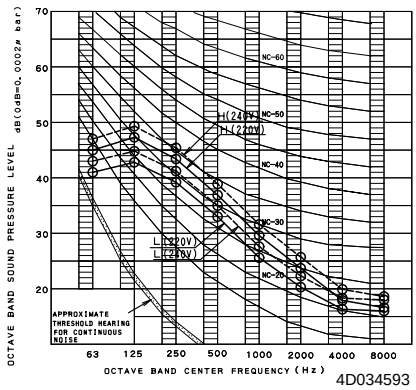
Notes:

1. The operating conditions are assumed to be standard (JIS conditions)
2. These operating values were obtained in a dead room (conversion values).
   Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of the particular room in which the equipments installed.

Octave Band Level

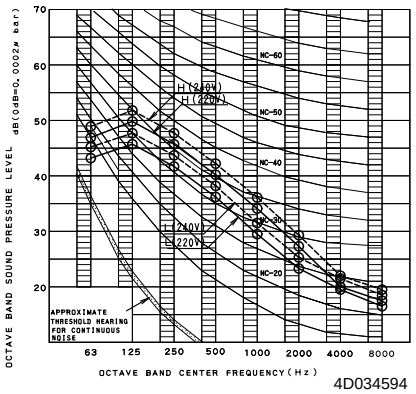
○——○ 220V
○- - - -○ 240V

FXM40L·50LVE



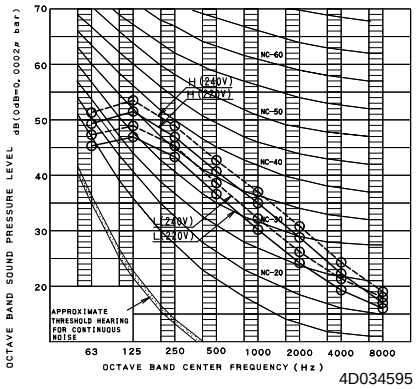
4D034593

FXM63LVE



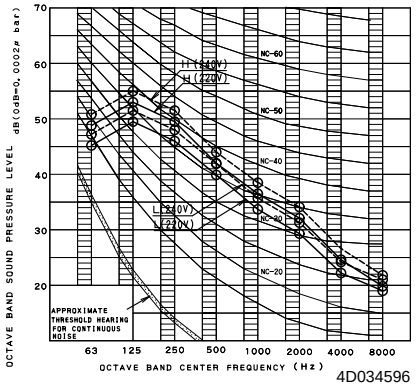
4D034594

FXM80L·100LVE



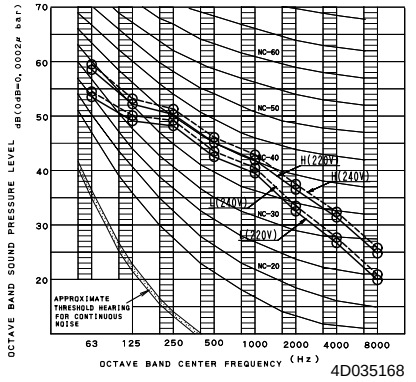
4D034595

FXM125LVE



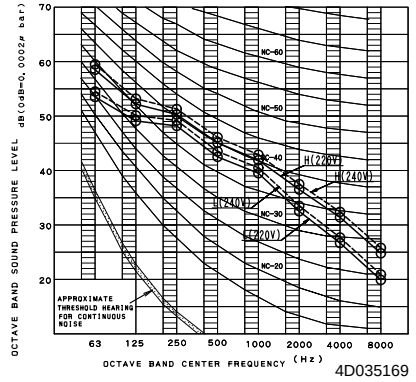
4D034596

FXM200LVE



4D035168

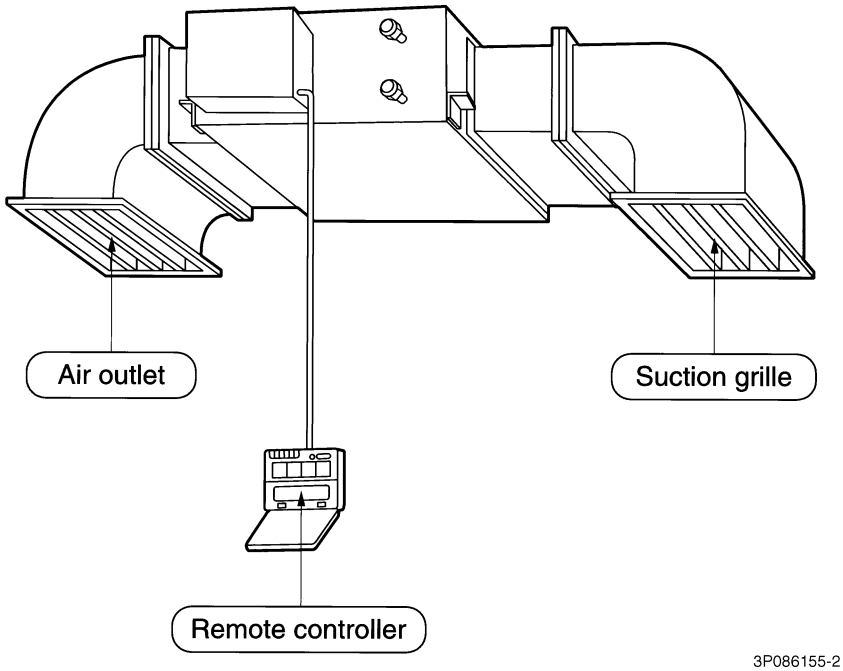
FXM250LVE



4D035169

10. Installation

Installation Example

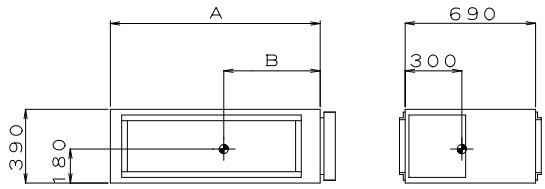


3P086155-2

Center of Gravity

FXM40~125L

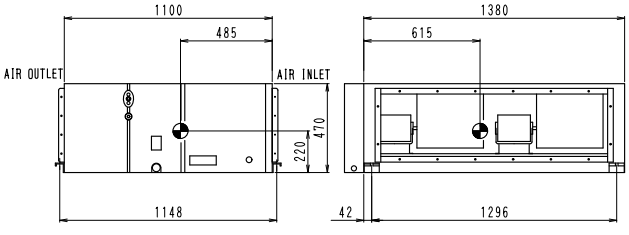
Unit (mm)



	A	B
FXM40·50·63LVE	720	290
FXM80·100·125LVE	1110	510

4D034591

FXM200·250L



4D035171

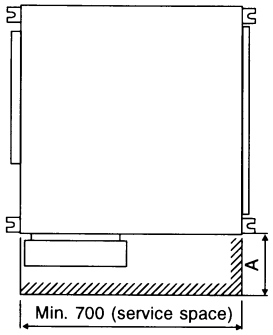
Service Space

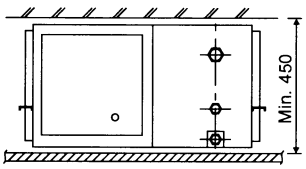
(1) Select an installation site where the following conditions are fulfilled and that meets with your customer's approval.

- If supporting structural members are not strong enough to take the unit's weight, the unit could fall out of place and cause serious injury.
- Where sufficient clearance for maintenance and service can be ensured. (Refer to Fig. 1)
- Where optimum air distribution can be ensured.
- Where nothing blocks the air passage.
- Where condensate can be properly drained.
- Where piping between indoor and outdoor units is possible within the allowable limit (Refer to the installation manual of the outdoor unit.)
- Keep the indoor and outdoor units, power cable and transmission wiring, at least 1 m from TVs and radios, to prevent distorted pictures and static. (Depending on the type and source of the electrical waves, static may be heard even when more than 1 m away.)

(2) Check whether the place is strong enough to bear the weight of the unit or not. If there is a risk, reinforce the place before installing the unit.

<FXM40·50·63·80·100·125L>





Model	A
FXM40L 50L 63L	750
FXM80L 100L 125L	1100

<FXM200·250L>

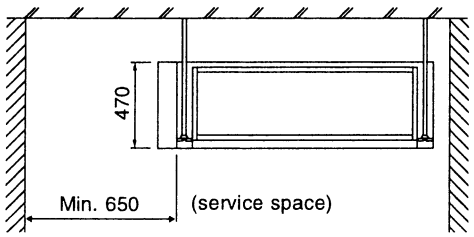


Fig. 1

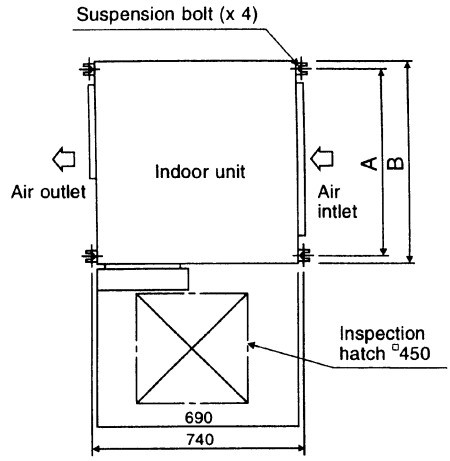
3P086156-2-4

Note:
Above figure means minimum value. Please keep these value at least.

Bolt Pitch

(1) Relative positions of indoor unit and suspension bolt (Refer to Fig. 2)

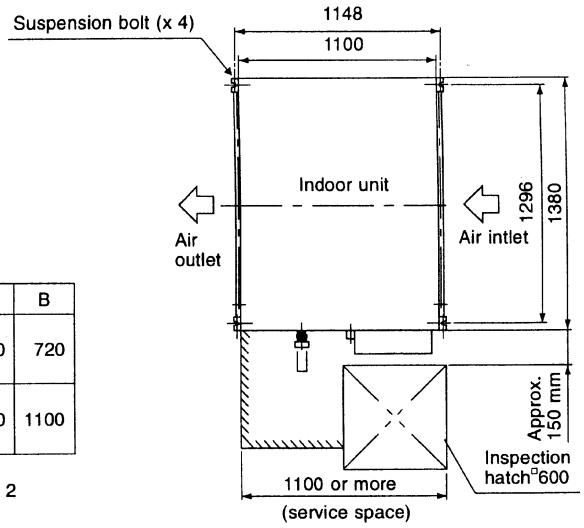
<FXM40·50·63·80·100·125L>



Model	A	B
FXM40L 50L 63L	670	720
FXM80L 100L 125L	1060	1100

Fig. 2

<FXM200·250L>

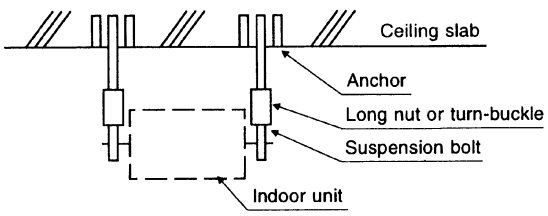


(2) Install a canvass duct to the air discharge outlet and air inlet so that vibration from the machine body isn't transmitted to the duct or ceiling. You should also apply acoustic (insulation material) to the inside of the duct, and vibration insulation rubber to the suspension bolts.

(3) Install suspension bolts.
(Use bolts of 10 mm diameter.)

- Install the equipment where supporting structures are strong enough to bear the equipment's weight. Use embedded inserts or anchor bolts with new buildings and hole-in-anchors with old buildings.

〈 Installation example 〉



Note) All the above parts are part to be procured in the field.

3P086156-2-5

Drain Piping Work

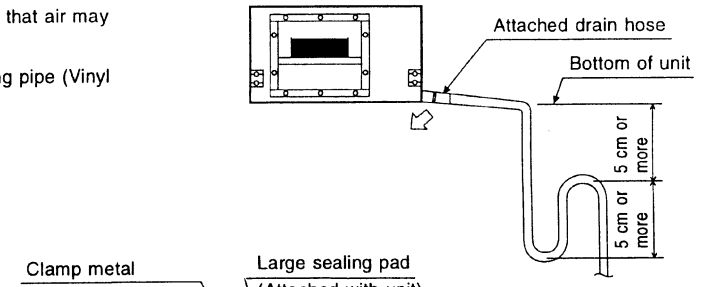
〈〈 **Rig the drain pipe as shown below and take measures against condensation. Improperly rigged piping could lead to leaks and eventually wet furniture and belongings.** 〉〉

<<Insulate the drain hose inside the buildings>>

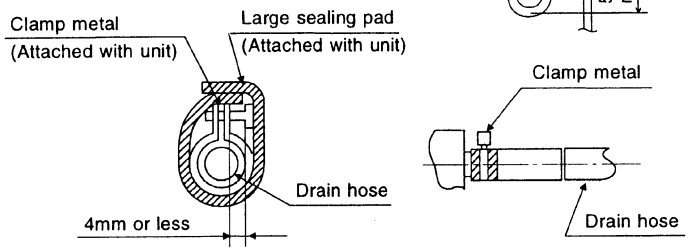
(1) Install the drain pipes.

FXM40-125L

- Keep piping as short as possible and slope it downwards so that air may not remaine trapped inside the pipe.
- Keep pipe size equal to or greater than that of the connecting pipe (Vinyl pipe of 25 mm nominal diam. and 32 mm outer diam.).
- Use the attached drain hose and clamp.
  Tighten the clamp firmly.
- Insulate the clamp metal with the attached sealing pad.

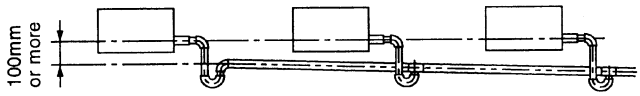


- **There is negative pressure inside the unit relative to atmospheric pressure when the unit is running, so be sure to provide drain frap on the drain outlet. (See the figure)**
- **In order to prevent foreign matter from building up inside the piping, you should avoid curves as much as possible, and arrange so the trap can be cleaned.**



NOTE)

- If installing central drain piping, install according to the following right figure.
  (Install a drain trap for each indoor unit.)



FXM200·250L

- A drain pipe need not be installed.
- The diameter of the piping is the same as that of the connecting pipe (PS1B), and should be kept equal to or greater than that of the connecting pipe.

(2) After piping work is finished, check drainage flows smoothly.

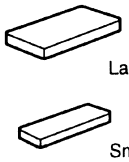
3P086156-2-8

11. Accessories

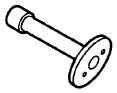
Standard Accessories

FXM40L~250L

<FXM40·50·63·80·100·125L>

Name	Clamp metal	Drain hose	Insulation for fitting	Sealing pad	Clamp	Screws for duct flanges	[Other]
Quantity	1 pc.	1 pc.	1 pc.	Large and small 1 each	6 pcs.	As described in table below	• Operation manual • Installation manual • Washers (8 pcs.)
Shape						 FXM40·50·63L: 16 FXM80·100·125L: 28	

<FXM200·250L>

Name	Attached piping (1)	[Other]
Quantity	1 set	• Operation manual • Installation manual • Screws for flange connection (M5) (48 pcs.) • Insulation material (for hanger) (2 pcs.) • Washers (8 pcs.) • Clamps (2 pcs.) • Hexagon head bolt for pipe frange (M10) (2pcs.) • Spring washer for pipe frange (M10) (2pcs.)
Shape		

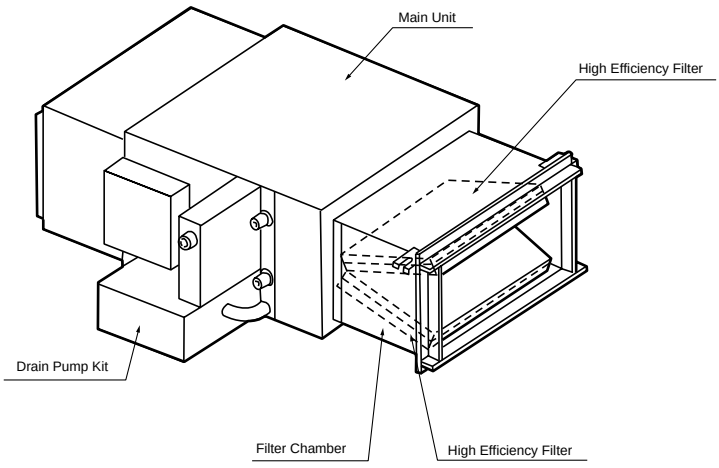
3P086156-2-3

Optional Accessories (For Unit)

Item \ Type		FXM40L	FXM50L	FXM63L	FXM80L	FXM100L	FXM125L	FXM200L	FXM250L
Drain pump kit		KDU-30L125VE						KDU30L250VE	
High efficiency filter	65%	KAFJ302L71			KAFJ302L140			KAFJ372L280	
	90%	KAFJ303L71			KAFJ303L140			KAFJ373L280	
Filter chamber		KDDJ30L71			KDDJ30L140			KDJ3705L280	
Long life replacement filter		KAFJ301L71			KAFJ301L140			KAFJ371L280	

3D034598

Optional Accessories (For Controls) Refer to P.640



(V0680)

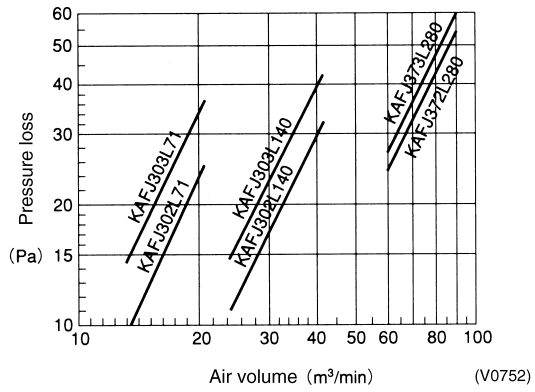
High Efficiency Filter

Specification

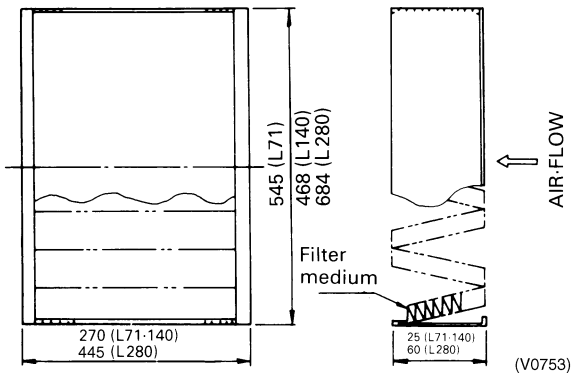
Model	65% type						90% type					
Items	KAFJ302L71		KAFJ302L140		KAFJ372L280		KAFJ303L71		KAFJ303L140		KAFJ373L280	
Filter Chamber	KDDJ30L71		KDDJ30L140		KDJ3705L280		KDDJ30L71		KDDJ30L140		KDJ3705L280	
Dimension (W×D×T) (mm)	545×270×25		468×270×25		684×445×60		545×270×25		468×270×25		684×445×60	
Average Dust Collection Efficiency (%)	Colorimetric method 65%						Colorimetric method 90%					
Initial Pressure Loss (Pa)	11	18	16	24	27	42	17	27	21	32	29	45
Final Pressure Loss (Pa)	98						98					
Filter	Non-woven fabric of synthetic fiber						Non-woven fabric of synthetic fiber					
Life Time (h)	2500 hours (dust density 0.15mg/m³)						1800 hours (dust density 0.15mg/m³)					
Seats Structured	2		4		2		2		4		2	
Applicable Models	40 Class	50·63 Class	80·100 Class	125 Class	200·250 Class		40 Class	50·63 Class	80·100 Class	125 Class	200·250 Class	

Note:
The filter chamber is separately required when the high efficiency filter will be installed.

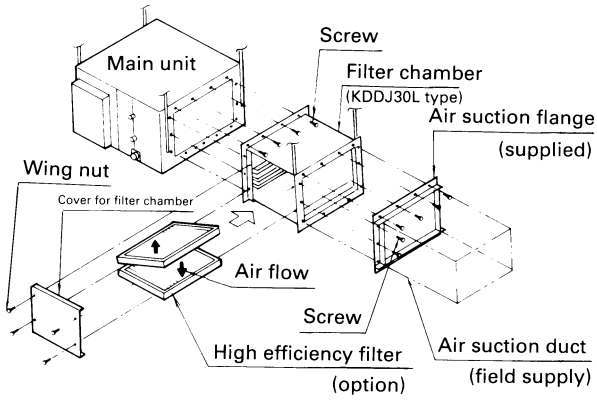
Characteristics of filter



Dimensions of filter



Installation



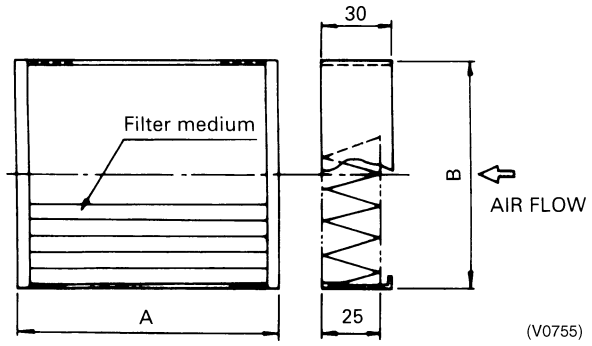
- Meet the airflow direction and arrow mark putting on the High efficiency filter.
- It is impossible to be built in with the air cleaning unit together.

Long Life Replacement Filter

Specifications

Item \ Model		KAFJ301L71	KAFJ301L140	KAFJ371L280
Filter Chamber for Bottom Suction		KDDJ30L71	KDDJ30L140	KDJ3705L280
Dimensions (W×D×T) mm		547×252×30	419×252×30 519×252×30	684×445×30
Average Efficiency (%)		50% (Gravity method)		
Pressure Loss (Pa)	Initial	9.8 (1mmH_2O)		
	Final	49 (5mmH_2O)		
Material		Mildew Proof Resin Net		
Number Required per Unit		1	2 (each 1)	2
Life Time (h)		2,500 h (dust particle concentration at 0.15mg/m³)		
Applicable Model		40·50·63 Class	80·100·125 Class	200·250 Class

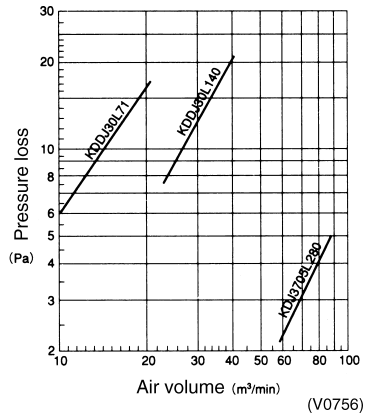
Dimensions



Model	A×B	Quantity
KAFJ301L71	252×549	2
	—	
KAFJ301L140	252×419	4 (each 2 filters)
	252×519	
KAFJ371L280	684×445	2

Note:
The filter chamber is required when the long life filter will be installed.

Characteristics of filter



Drain Pump Kit

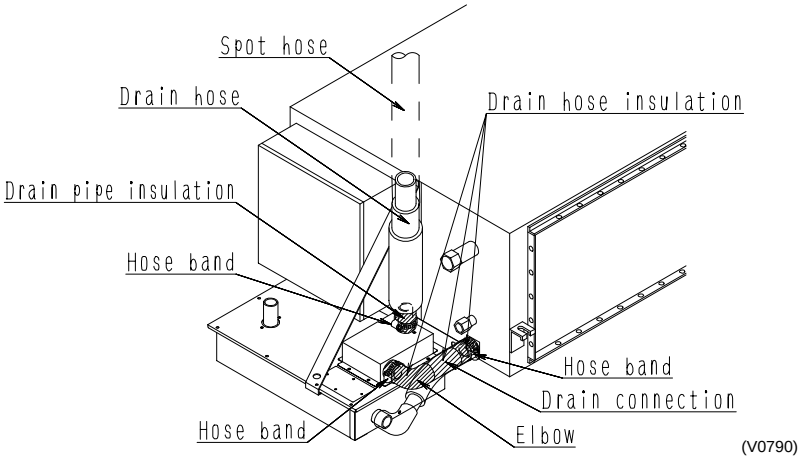
Specification

Items \ Model	KDU-30L125VE	KDU30L250VE
Power Supply	Single phase 220-240V/220V 50/60Hz	
Power Consumption (W)	19/17 (50/60Hz)	
Drain-up Lift (mm)	Standard drain outlet of the unit +294	Standard drain outlet of the unit +197~+447
Drain Outlet	VP25 (Internal diameter ϕ25, external diameter ϕ32)	
Safety Device	Float switch	
Weight (kg)	9	10
Applied Models	40·50·63·80·100·125 Class	200·250 Class

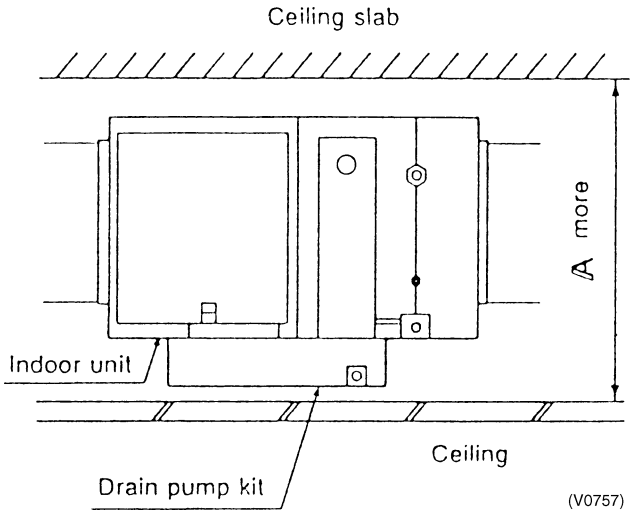
Precaution at use

1. When this kit will be used with the natural evaporation pan type humidifier together, the piping of unit's drain and humidifier's drain can be used in common.
2. Be sure to do test run (cooling) to make sure the drain flows out.
3. Prohibit providing a drain trap when the drain pump kit will be mounted.

Installation



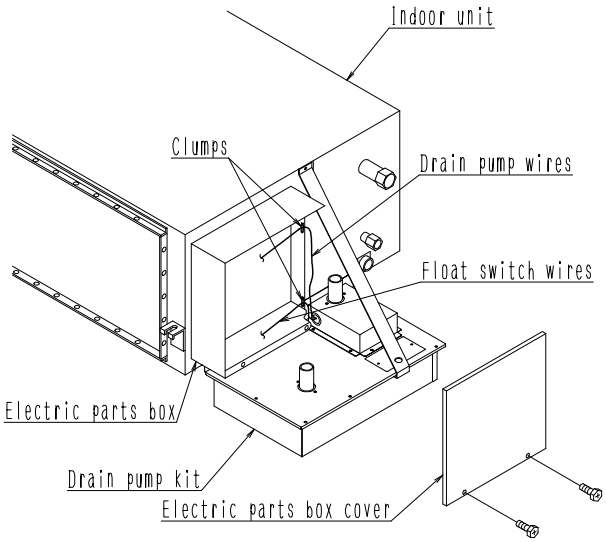
Notes) 1.Connect the drain connection hose from the elbow of the connection hose to the drain pump box. Connect the attached drain hose to the outlet of the drain pump.
2.Keep the drain hose sloping downwards.

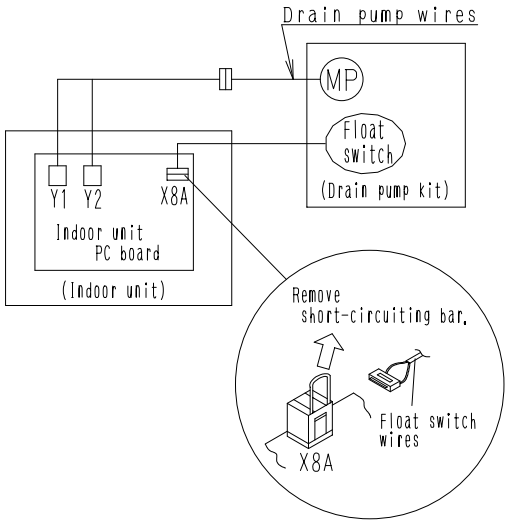


	A
KDU-30L125VE	520mm
KDU30L250VE	590mm

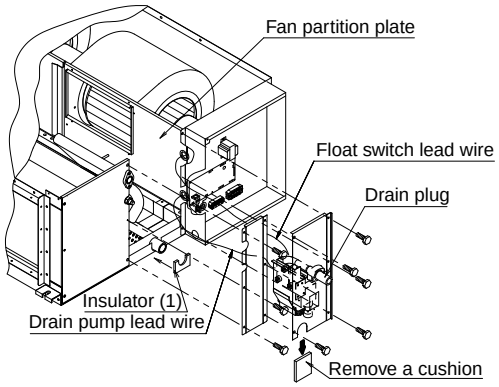
Internal Wiring Method

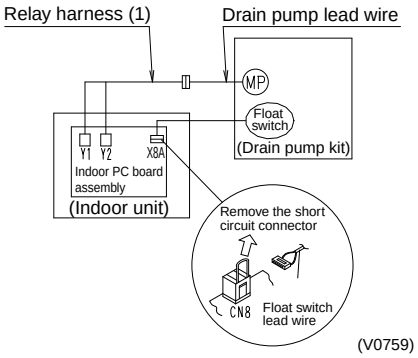
■ **KDU-30L125VE**





■ **KDU30L250VE**





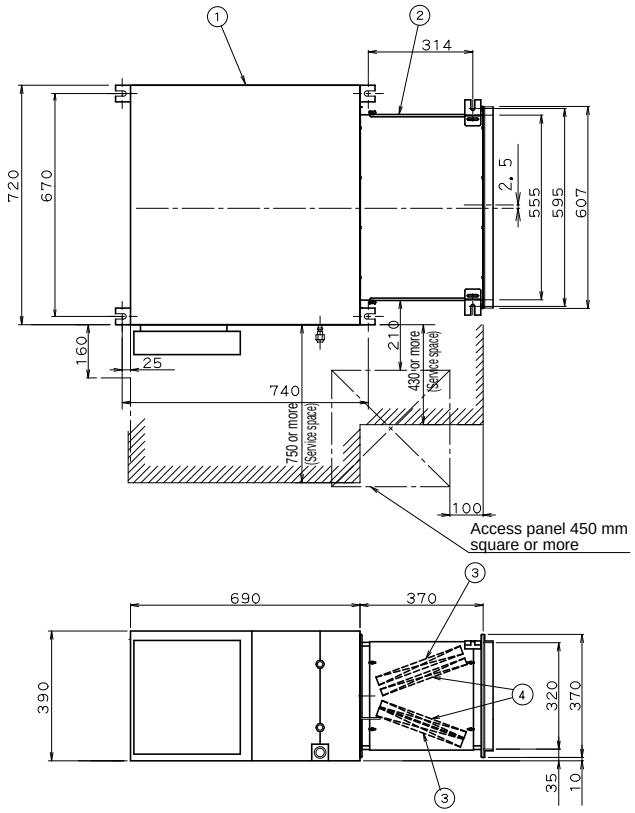
(V0759)

6

Dimensions with the Optional Accessories

High efficiency filter (Long life filter)

■ **FXM40L~63L**

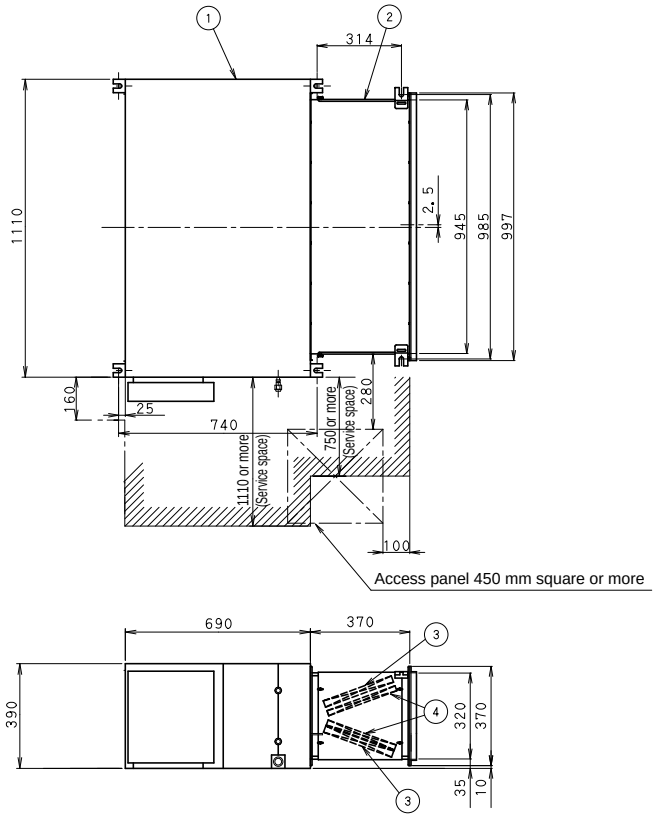


Note)
1. Be sure to provide an air filter in the suction air duct (with dust collection efficiency by more than 50% in the weight method.)
2. Be sure to install a drain trap in the drain piping because the outlet of drain will fall to negative pressure.
3. when a central drain system will be applied, each indoor unit should have a drain trap individually.

Number	Name	Description
4	Long life filter	
3	High efficiency filter	
2	Filter chamber	
1	Ceiling mounted duct type 's body	

JC : DU824-202G

■ **FXM80L~125L**



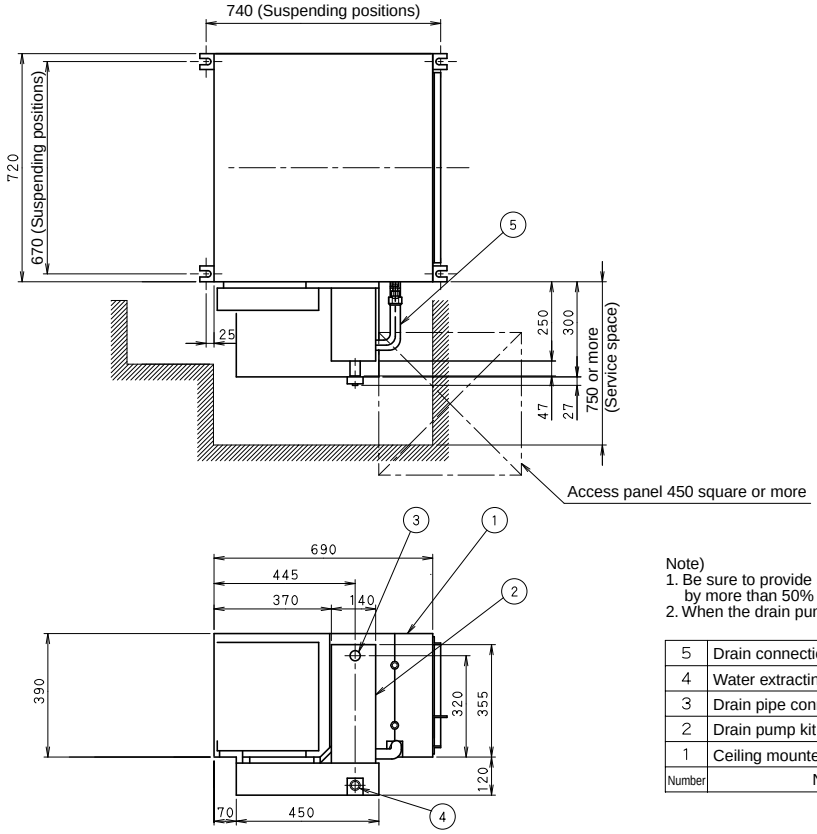
Note)
1. Be sure to provide an air filter in the suction air duct (with dust collection efficiency by more than 50% in the weight method.)
2. Be sure to install a drain trap in the drain piping because the outlet of drain will fall to negative pressure.
3. when a central drain system will be applied, each indoor unit should have a drain trap individually.

Number	Name	Description
4	Long life filter	
3	High efficiency filter	
2	Filter chamber	
1	Ceiling mounted duct type 's body	

JC : DU827-244G

Drain Pump Kit

■ FXM40L~63L

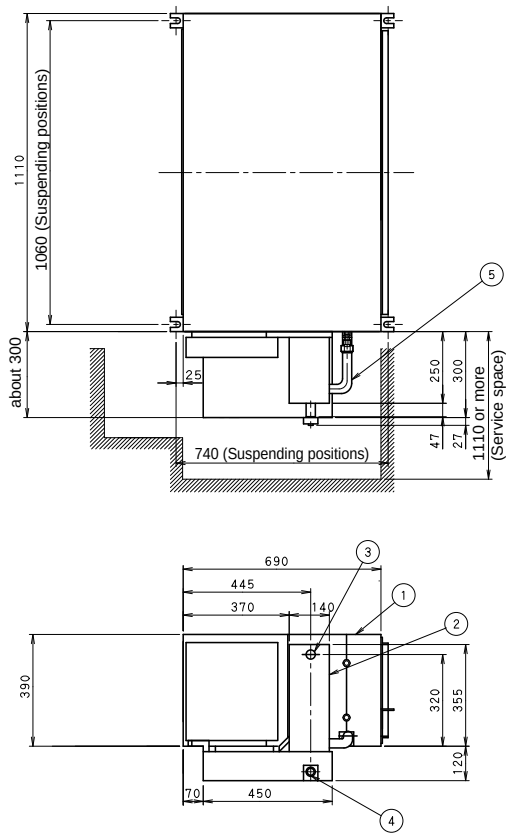


Note)
1. Be sure to provide an air filter in the suction air duct (with dust collection efficiency by more than 50% in the weight method.)
2. When the drain pump kit will be mounted, don't provide a trap in the drain pipe line.

Number	Name	Description
5	Drain connection pipe	Attached to the drain pump kit
4	Water extracting hole	
3	Drain pipe connection	VP25 (O.D. ϕ32)
2	Drain pump kit	
1	Ceiling mounted duct type's body	

JC : DU824-203D

■ FXM80L~125L



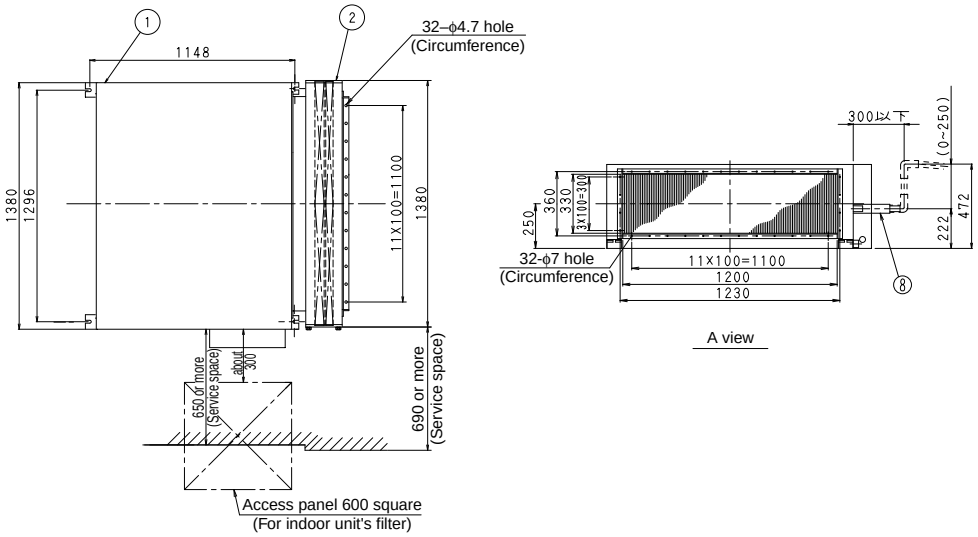
Note)
1. Be sure to provide an air filter in the suction air duct (with dust collection efficiency by more than 50% in the weight method.)
2. When the drain pump kit will be mounted, don't provide a trap in the drain pipe line.

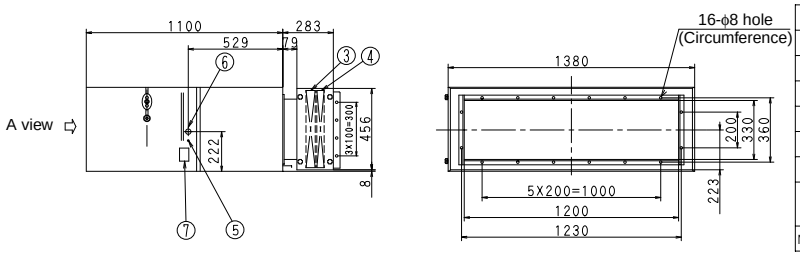
Number	Name	Description
5	Drain connection pipe	Attached to the drain pump kit
4	Water extracting hole	
3	Drain pipe connection	VP25 (O.D. ϕ32)
2	Drain pump kit	
1	Ceiling mounted duct type's body	

JC : DU827-245D

Drain pump kit, High efficiency filter, Long life filter

■ **FXM200L·250L**





Number	Name	Description
8	Drain hose	Attached to Drain pump kit
7	Water inlet	
6	Drain piping connection	VP25 (O.D. φ32, I.D.φ25)
5	Drain pump kit	Built in a body
4	Long life filter	
3	High efficiency filter	
2	Filter chamber	
1	Ceiling mounted duct type's body	

JC : 3D011124B