



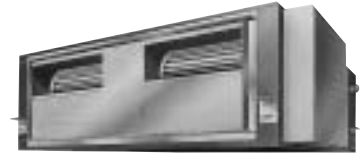
technical data

**VRV<sup>®</sup> II** Systems

FXMQ-MVE

Concealed ceiling unit (large)

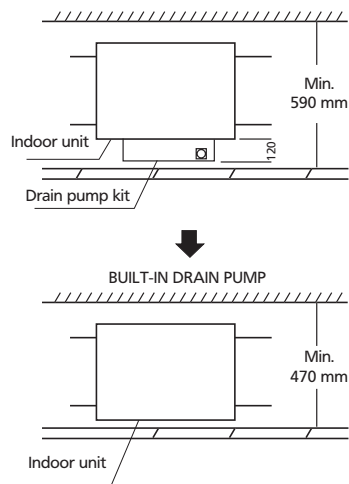
**FXMQ-MVE**  
**Concealed ceiling unit (large)**



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# 1 Features

- Leaves maximum wall space for furniture and decoration
- Wide line-up to increase the flexibility in system designing: complete range of models (5 → 31.5 kW)
- More than 150Pa external static pressure allows extensive ductwork runs and flexible application: ideal for use in large areas
- External static pressure can be easily adjusted using a change-over switch inside the electrical box to meet the resistance in the duct system
- Built-in drain pump (accessory) : housing the drain pump inside the unit has reduced the necessary installation space



## 2 Specifications

### 2-1 Technical specifications

FXMQ-MVE				40	50	63	80	100	125	200	250
COOLING CAPACITY (1)			kW	4.5	5.6	7.1	9.0	11.2	14.0	22.4	28.0
HEATING CAPACITY (2)			kW	5.0	6.3	8.0	10.0	12.5	16.0	25.0	31.5
NOMINAL INPUT	Cooling	W	211			284	411	619	1,294	1,465	
	Heating	W	211			284	411	619	1,294	1,465	
DIMENSIONS			HxWxD	390x720x690			390x1,110x690			470x1,380x1,100	
WEIGHT			kg	44			45	63	65	137	
CASING			galvanised steel plate								
SOUND LEVEL	Sound pressure 220V	high	dBA	39			42	43		45	48
		low	dBA	35			38	39		42	45
	Sound power	dBA	*			*	*		*	*	
FAN	Air flow rate	high	m <sup>3</sup> /h	840			1,170	1,740	2,160	3,480	4,320
		low	m <sup>3</sup> /h	690			960	1,380	1,740	3,000	3,720
	Type	sirocco fan									
	Model	D11/2D3AB1VE			D11/2D3AA1VE		2D11/2D3AG1VE	2D11/2D3AF1VE	D13/4G2DA1x2		
	Motor output	W	100			160	270	430	2x380		
	External static pressure (50Hz) (Cf. note 4)	Pa	157-118			157-108	157-98	191-152	221-132	270-147	
	Drive	direct drive									
HEAT EXCHANGER	Rows x stages x fin pitch	mm	3x16x2.0						3x26x2.0		
	Face area	m <sup>2</sup>	0.181			0.319			0.68		
AIR FILTER			cf. note 5								
REFRIGERANT CONTROL			electronic expansion valve								
TEMPERATURE CONTROL			microprocessor thermostat for cooling and heating								
PIPING CONNECTIONS	Liquid	flare	mm	ø 6.4			ø 9.5			ø 9.5	
	Gas		mm	ø 12.7 (flare)			ø 15.9 (flare)			ø 19.1 (brazing)	ø 22.2 (brazing)
	Drain		mm	VP25, external diameter 32, internal diameter 25						PS1B	
SOUND ABSORBING INSULATION MATERIAL			glass fiber								

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#### NOTES

- Nominal cooling capacities are based on:
    - Indoor temperature: 27°CDB, 19°CWB
    - Outdoor temperature: 35°CDB
    - Equivalent refrigerant piping: 7.5m (horizontal)
  - Nominal heating capacities are based on:
    - Indoor temperature: 20°CDB
    - Outdoor temperature: 7°CDB, 6°CWB
    - Equivalent refrigerant piping: 7.5m (horizontal)
  - Capacities are net including a deduction for cooling (an addition for heating) for indoor fan motor heat.
  - Static external pressure is changeable: change the connectors inside the electrical box, this pressure means: high static pressure - standard
  - The air filter is not a standard accessory, but please mount it in the duct system at the suction side. Select its colorimetric method (gravity method) 50% or more
- \* Data were not available at the time of publication

## 2 Specifications

### 2-2 Electrical specifications

FXMQ-MVE			40	50	63	80	100	125	200	250
CURRENT	Minimum circuit amps (MCA)	A	1.3			1.5	2.5	3.8	8.1	9.0
	Maximum fuse amps (MFA)	A	15							
POWER SUPPLY		VE	1 ~, 50Hz, 220-240V							
VOLTAGE RANGE	Min ~ max	V	198 ~ 264							
INDOOR FAN MOTOR	Fan motor rated output	W	100		160	270	430	380x2		
	Full load amps (FLA)	A	1.0		1.2	2.0	3.0	6.5	7.2	

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#### NOTES

- Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
- Maximum allowable voltage range variation between phases is 2%.
- MCA/MFA:  
MCA = 1.25 x FLA  
MFA ≤ 4 x FLA  
next lower standard fuse rating minimum 15A.
- Select wire size based on the MCA.
- Instead of a fuse, use a circuit breaker
- For more details concerning conditional connections, see <http://www.daikineurope.com/extranet>, select "Daikin Documentation" and select "conditional connection", "the requested product type" and "English" from the drop down lists, click the search button. Finally, click on the document title of your choice.

### 2-3 Safety device settings

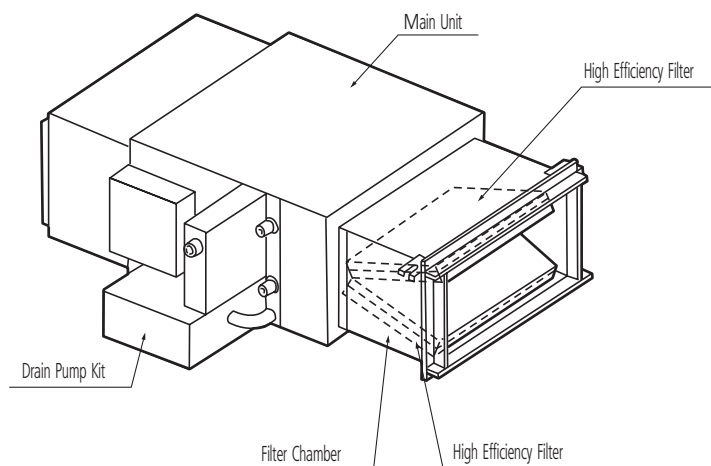
FXMQ-MVE		40	50	63	80	100	125	200	250	
PC BOARD FUSE		250V 10A								
FAN MOTOR THERMAL PROTECTOR	°C	OFF: 135 <sup>±8</sup> , ON: 87 <sup>±15</sup>								

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### 3 Accessories

FXMQ-MVE	40	50	63	80	100	125	200	250
DRAIN PUMP KIT	KDU30L125VE						KDU30L250VE	
HIGH EFFICIENCY FILTER 65%	KAFJ302L71			KAFJ302L140			KAFJ372L280	
HIGH EFFICIENCY FILTER 90%	KAFJ303L71			KAFJ303L140			KAFJ373L280	
FILTER CHAMBER	KDDJ30L71			KDDJ30L140			KDJ3705L280	
REPLACEMENT LONG LIFE FILTER	KAFJ301L71			KAFJ301L140			KAFJ371L280	

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### 3 Accessories

#### 3-1 Drain pump kit

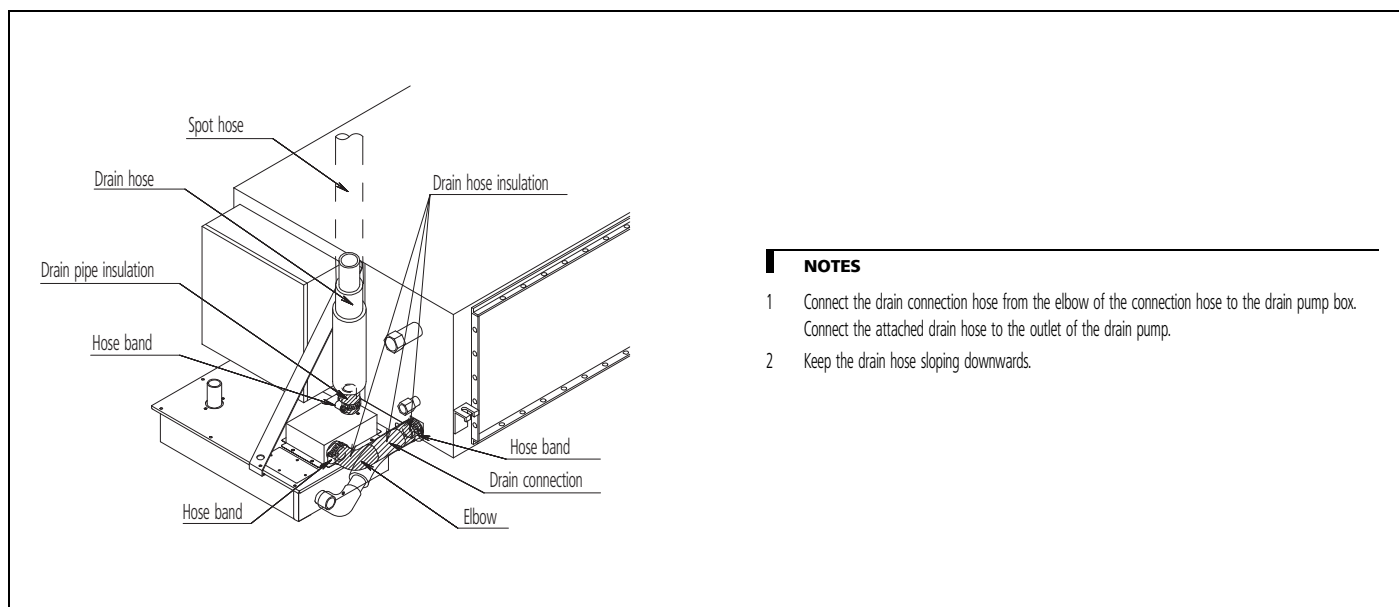
##### 3-1-1 Specifications

		KDU30L125VE	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 ø25, external diameter ø32)	
SAFETY DEVICE		float switch	
WEIGHT	kg	9	10
APPLIED MODELS		40-50-63-80-100-125 class	200-250 class

##### 3-1-2 Precaution at use

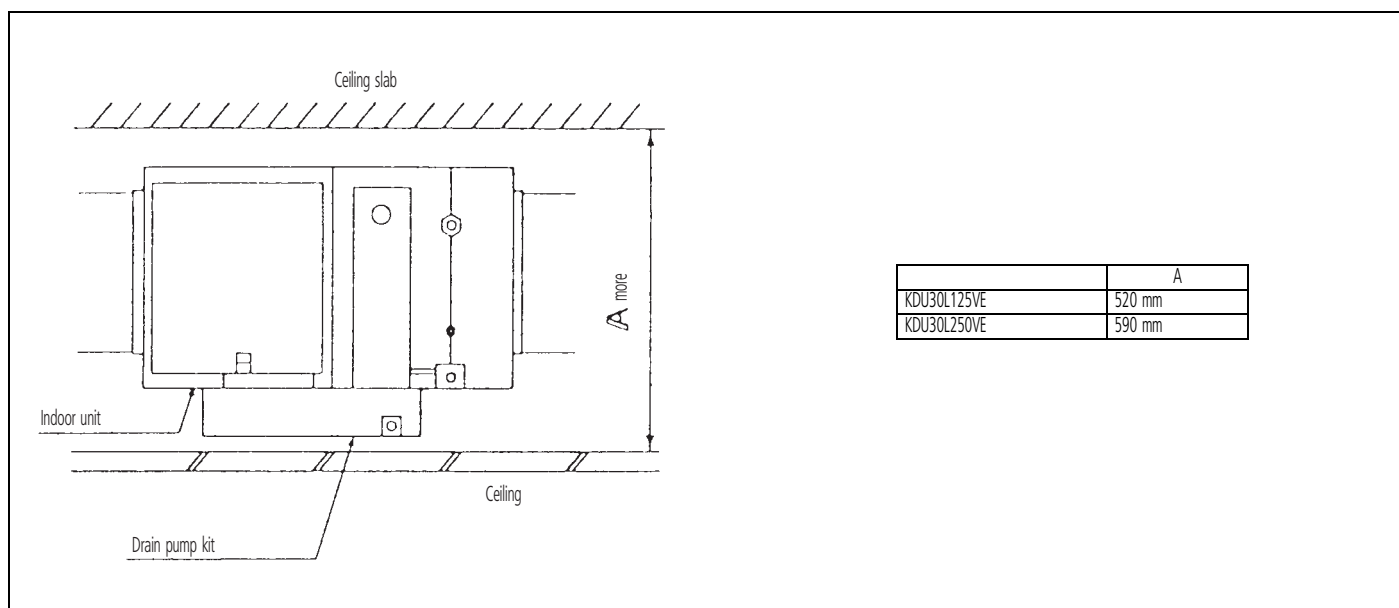
- When this kit will be used together with the natural evaporation pan type humidifier, the piping of unit's drain and humidifier's drain can be used in common.
- Be sure to do test run (cooling) to make sure the drain flows out.
- Prohibit providing a drain trap when the drain pump kit will be mounted.

##### 3-1-3 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.

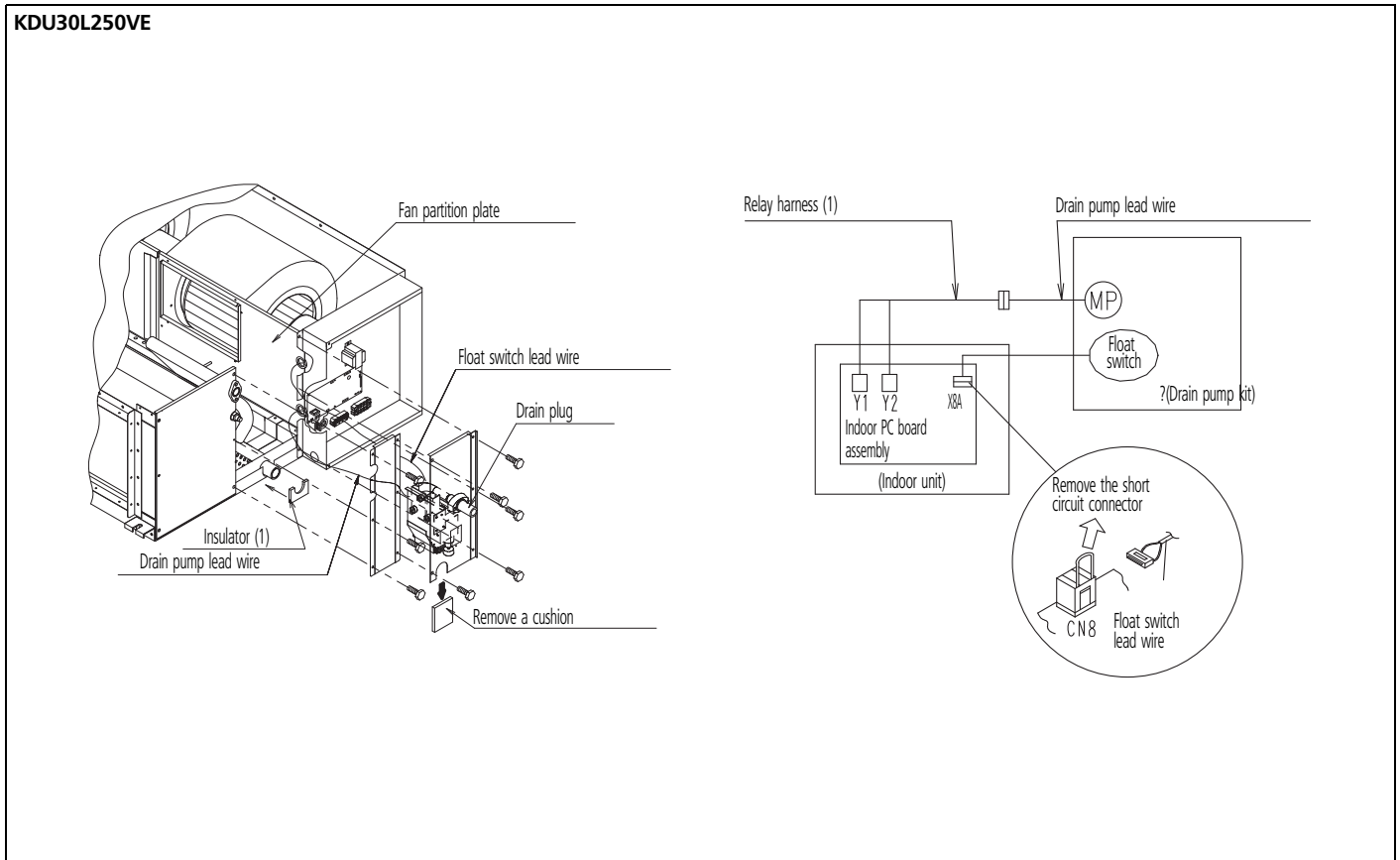
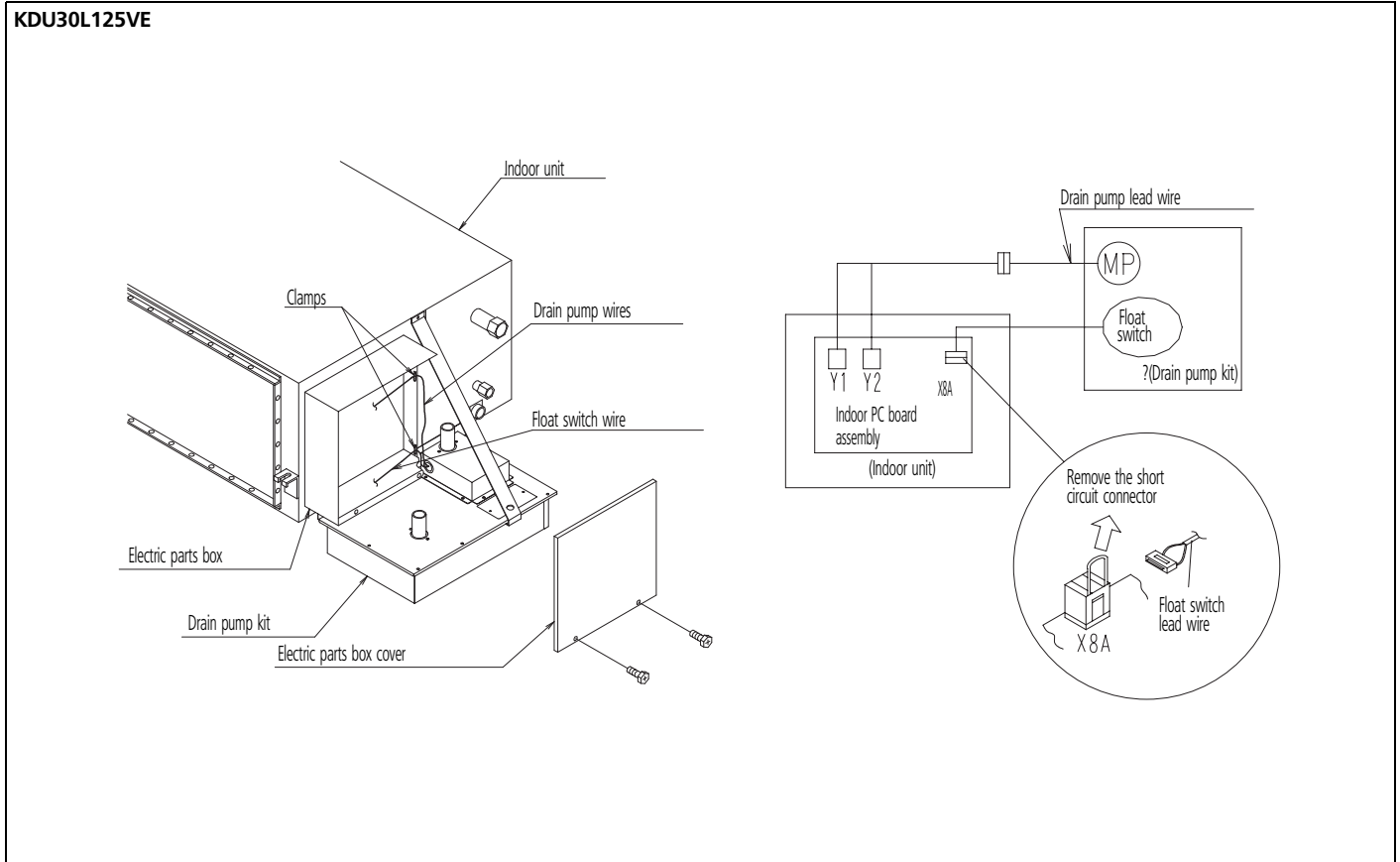
### 3



### 3 Accessories

#### 3-1 Drain pump kit

##### 3-1-4 Internal wiring method





### 3 Accessories

#### 3-2 High efficiency filter

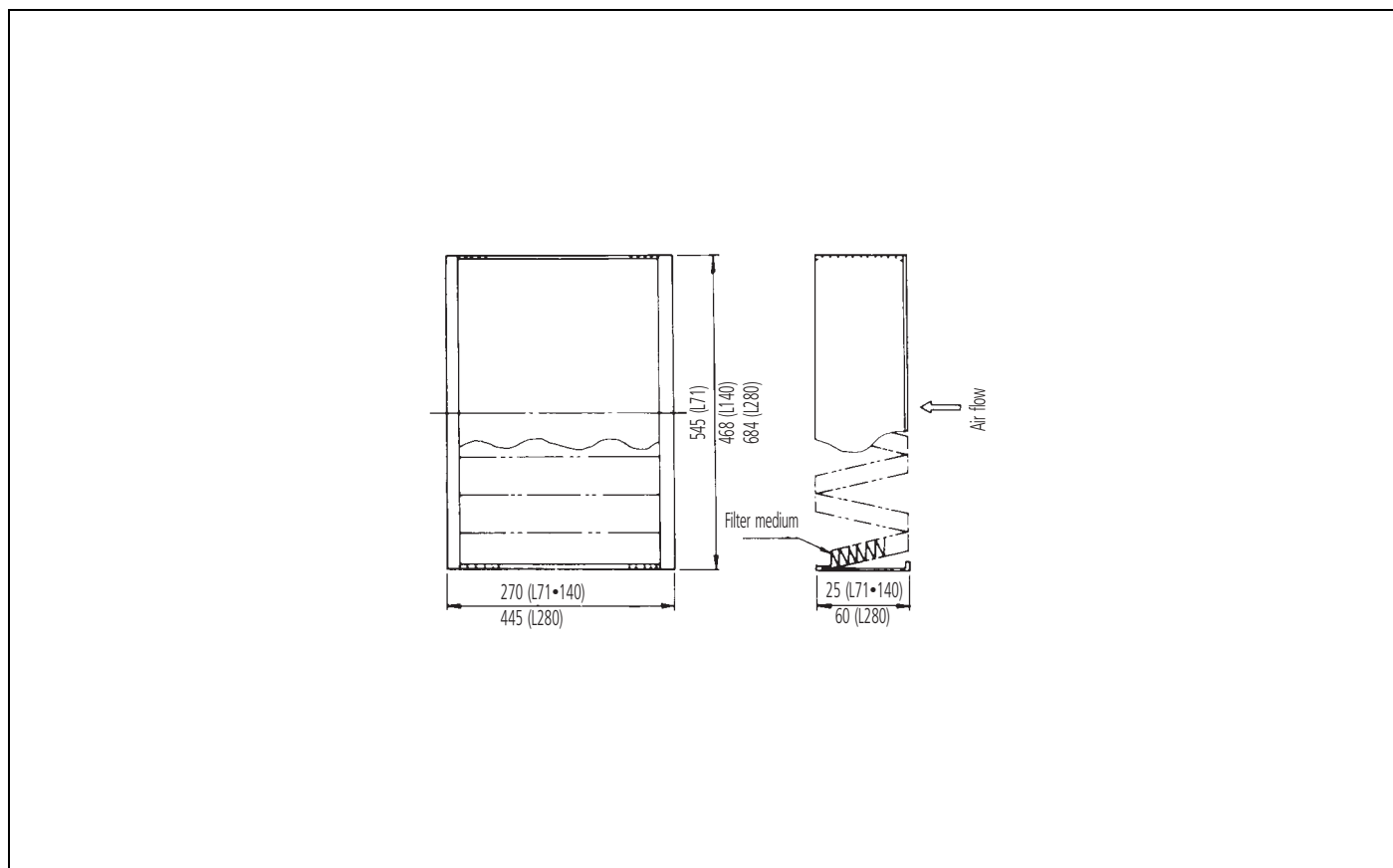
##### 3-2-1 Specifications

			65% type						90% type													
			KAFJ302L71		KAFJ302L140		KAFJ372L280		KAFJ303L71		KAFJ303L140		KAFJ373L280									
FILTER CHAMBER			KDDJ30L71		KDDJ30L140		KDJ3705L280		KDDJ30L71		KDDJ30L140		KDJ3705L280									
DIMENSION	WxDxT	mm	545x270x25		468x270x25		684x445x60		545x270x25		468x270x25		684x445x60									
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		2,500 hours (dust density 0.15mg/m <sup>3</sup> )						1,800 hours (dust density 0.15mg/m <sup>3</sup> )											
SEATS STRUCTURED			2		4		2		2		4		2									
APPLICABLE MODELS			40 class		50,63,80 class		100 class		125 class		200,250 class		40 class		50,63,80 class		100 class		125 class		200,250 class	

**NOTE**

1 The filter chamber is separately required when the high efficiency filter will be installed

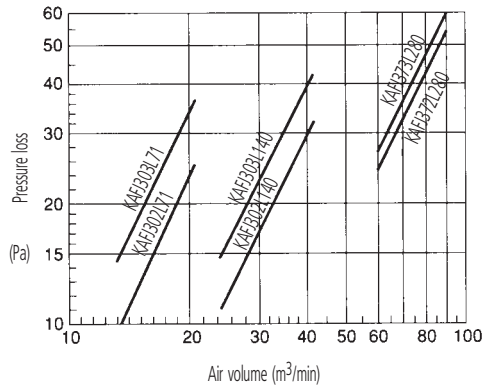
##### 3-2-2 Dimensions



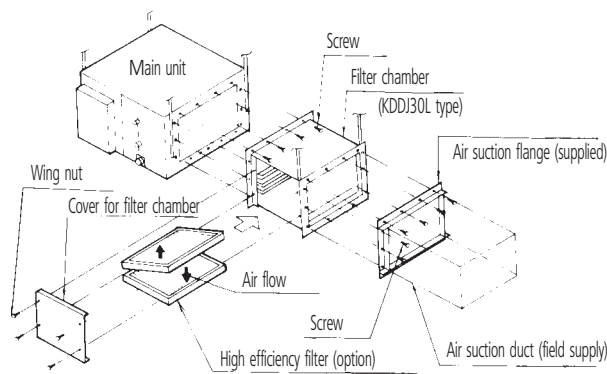
### 3 Accessories

#### 3-2 High efficiency filter

##### 3-2-3 Filter characteristics



##### 3-2-4 Installation



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

### 3 Accessories

#### 3-3 Replacement long life filter

##### 3-3-1 Specifications

			KAFJ301L71	KAFJ301L140	KAFJ371L280
FILTER CHAMBER FOR BOTTOM SUCTION			KDDJ30L71	KDDJ30L140	KDJ3705L280
DIMENSIONS	WxDxT	mm	547x252x30	419x252x30 519x252x30	684x445x30
AVERAGE EFFICIENCY (%)		%	50% (gravity method)		
PRESSURE LOSS (PA)	Initial	Pa	9.8 (1 mmH <sub>2</sub> O)		
	Final	Pa	49 (5 mmH <sub>2</sub> O)		
MATERIAL			mildew proof resin net		
NUMBER REQUIRED PER UNIT			1	2 (each 1)	2
LIFE TIME (H)		h	2,500 h (dust particle concentration at 0.15mg/m <sup>3</sup> )		
APPLICABLE MODEL			40-50-63-80 Class	100-125 Class	200-250 Class

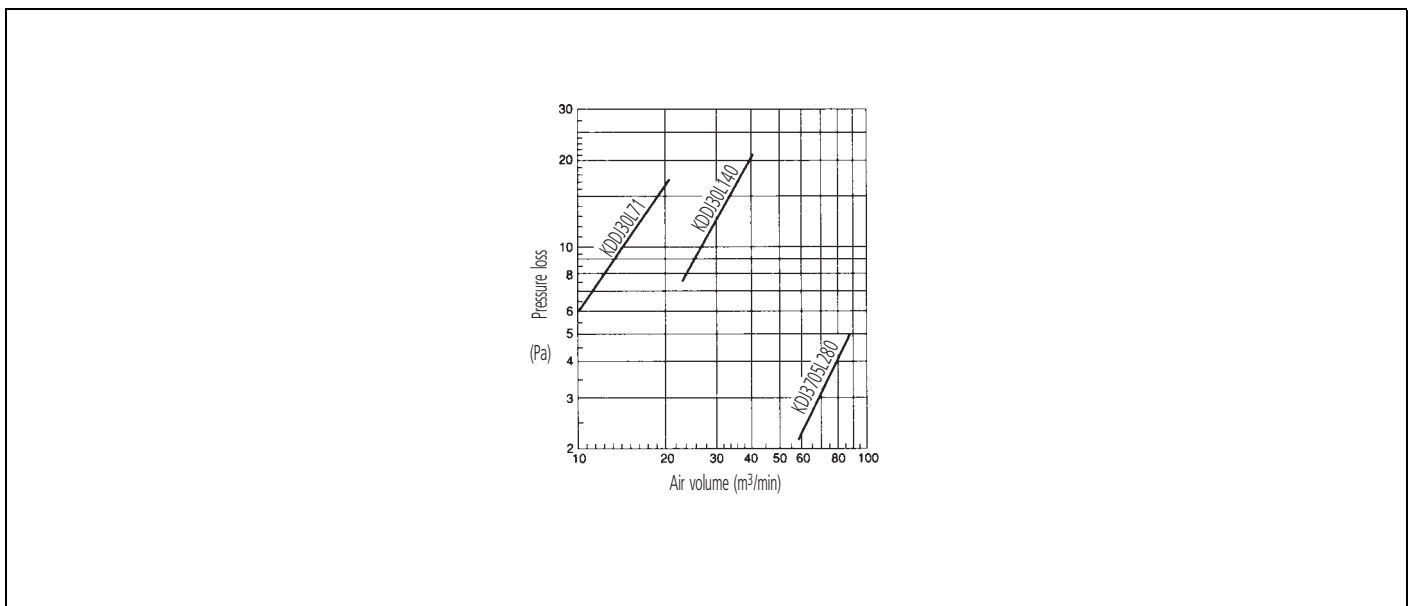
##### 3-3-2 Dimensions

Model	AxB	Quantity
KAFJ301L71	252x549	2
KAFJ301L140	252x419	4 (each 2 filters)
	252x519	
KAFJ371L280	684x445	2

**NOTES**

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

##### 3-3-3 Filter characteristics



## 4 Control systems

### 4-1 Individual control systems

WIRED REMOTE CONTROL		BRC1D527
INFRARED REMOTE CONTROL	Heat pump	BRC4C62
	Cooling only	BRC4C64
SIMPLIFIED REMOTE CONTROL		BRC2A51
REMOTE CONTROL FOR HOTEL USE		BRC3A61

### 4-2 Centralised control systems

CENTRALISED REMOTE CONTROL	DCS302C51
UNIFIED ON/OFF CONTROL	DCS301B51
SCHEDULE TIMER	DST301B51

### 4-3 Others

WIRING ADAPTER	KRP1B61
WIRING ADAPTER FOR ELECTRICAL APPENDICES (1)	KRP2A61
WIRING ADAPTER FOR ELECTRICAL APPENDICES (2)	KRP4A51
REMOTE SENSOR	KRCS01-1
ELECTRICAL BOX WITH EARTH TERMINAL (3 BLOCKS)	KJB311A
ELECTRICAL BOX WITH EARTH TERMINAL (2 BLOCKS)	KJB212A
NOISE FILTER (FOR ELECTROMAGNETIC INTERFACE USE ONLY)	KEK2G-1
EXTERNAL CONTROL ADAPTER FOR OUTDOOR UNITS (INSTALLATION ON INDOOR UNIT)	DTA104A61

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# 5 Capacity tables

## 5-1 Cooling capacity

TC: Total capacitykW – SHC: Sensible capacitykW

Unit size	Nominal capacity	Outdoor air temp.	Indoor air temperature													
			14.OWB		16.OWB		18.OWB		19.OWB		20.OWB		22.OWB		24.OWB	
			20.ODB		23.ODB		26.ODB		27.ODB		28.ODB		30.ODB		32.ODB	
			°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC
40	4.5	10.0	3.0	2.9	3.6	3.1	4.2	3.5	4.5	3.5	4.8	3.6	5.4	3.7	5.9	3.7
		12.0	3.0	2.9	3.6	3.1	4.2	3.5	4.5	3.5	4.8	3.6	5.4	3.7	5.8	3.7
		14.0	3.0	2.9	3.6	3.1	4.2	3.5	4.5	3.5	4.8	3.6	5.4	3.7	5.8	3.7
		16.0	3.0	2.9	3.6	3.1	4.2	3.5	4.5	3.5	4.8	3.6	5.4	3.7	5.7	3.6
		18.0	3.0	2.9	3.6	3.1	4.2	3.5	4.5	3.5	4.8	3.6	5.4	3.7	5.6	3.6
		20.0	3.0	2.9	3.6	3.1	4.2	3.5	4.5	3.5	4.8	3.6	5.4	3.7	5.5	3.5
		21.0	3.0	2.9	3.6	3.1	4.2	3.5	4.5	3.5	4.8	3.6	5.4	3.7	5.5	3.5
		23.0	3.0	2.9	3.6	3.1	4.2	3.5	4.5	3.5	4.8	3.6	5.3	3.6	5.4	3.4
		25.0	3.0	2.9	3.6	3.1	4.2	3.5	4.5	3.5	4.8	3.6	5.2	3.6	5.3	3.4
		27.0	3.0	2.9	3.6	3.1	4.2	3.5	4.5	3.5	4.8	3.6	5.2	3.5	5.3	3.4
		29.0	3.0	2.9	3.6	3.1	4.2	3.5	4.5	3.5	4.8	3.6	5.1	3.5	5.2	3.4
		31.0	3.0	2.9	3.6	3.1	4.2	3.5	4.5	3.5	4.8	3.6	5.0	3.5	5.1	3.3
		33.0	3.0	2.9	3.6	3.1	4.2	3.5	4.5	3.5	4.8	3.6	4.9	3.4	5.0	3.3
		35.0	3.0	2.9	3.6	3.1	4.2	3.5	4.5	3.5	4.7	3.6	4.9	3.4	5.0	3.3
37.0	3.0	2.9	3.6	3.1	4.2	3.5	4.5	3.5	4.7	3.5	4.8	3.4	4.9	3.3		
39.0	3.0	2.9	3.6	3.1	4.2	3.5	4.5	3.6	4.6	3.5	4.7	3.4	4.8	3.2		
50	5.6	10.0	3.8	3.3	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.3	7.4	4.3
		12.0	3.8	3.3	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.3	7.3	4.3
		14.0	3.8	3.3	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.3	7.2	4.2
		16.0	3.8	3.3	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.3	7.1	4.2
		18.0	3.8	3.3	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.3	7.0	4.1
		20.0	3.8	3.3	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.3	6.9	4.1
		21.0	3.8	3.3	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.3	6.8	4.0
		23.0	3.8	3.3	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.6	4.2	6.7	4.0
		25.0	3.8	3.3	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.5	4.2	6.6	4.0
		27.0	3.8	3.3	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.4	4.1	6.6	3.9
		29.0	3.8	3.3	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.3	4.1	6.5	3.9
		31.0	3.8	3.3	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.2	4.0	6.4	3.8
		33.0	3.8	3.3	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.1	4.0	6.3	3.8
		35.0	3.8	3.3	4.5	3.6	5.2	4.0	5.6	4.1	5.9	4.1	6.0	4.0	6.2	3.8
37.0	3.8	3.3	4.5	3.6	5.2	4.0	5.6	4.1	5.8	4.1	5.9	3.9	6.1	3.7		
39.0	3.8	3.3	4.5	3.6	5.2	4.0	5.6	4.1	5.7	4.0	5.8	3.9	6.0	3.7		
63	7.1	10.0	4.8	3.8	5.7	4.2	6.6	4.6	7.1	4.6	7.6	4.6	8.5	4.8	9.3	4.9
		12.0	4.8	3.8	5.7	4.2	6.6	4.6	7.1	4.6	7.6	4.6	8.5	4.8	9.2	4.9
		14.0	4.8	3.8	5.7	4.2	6.6	4.6	7.1	4.6	7.6	4.6	8.5	4.8	9.1	4.8
		16.0	4.8	3.8	5.7	4.2	6.6	4.6	7.1	4.6	7.6	4.6	8.5	4.8	9.0	4.8
		18.0	4.8	3.8	5.7	4.2	6.6	4.6	7.1	4.6	7.6	4.6	8.5	4.8	8.8	4.8
		20.0	4.8	3.8	5.7	4.2	6.6	4.6	7.1	4.6	7.6	4.6	8.5	4.8	8.7	4.7
		21.0	4.8	3.8	5.7	4.2	6.6	4.6	7.1	4.6	7.6	4.6	8.5	4.8	8.7	4.7
		23.0	4.8	3.8	5.7	4.2	6.6	4.6	7.1	4.6	7.6	4.6	8.4	4.8	8.5	4.6
		25.0	4.8	3.8	5.7	4.2	6.6	4.6	7.1	4.6	7.6	4.6	8.3	4.7	8.4	4.6
		27.0	4.8	3.8	5.7	4.2	6.6	4.6	7.1	4.6	7.6	4.6	8.1	4.7	8.3	4.6
		29.0	4.8	3.8	5.7	4.2	6.6	4.6	7.1	4.6	7.6	4.6	8.0	4.7	8.2	4.5
		31.0	4.8	3.8	5.7	4.2	6.6	4.6	7.1	4.6	7.6	4.6	7.9	4.6	8.1	4.5
		33.0	4.8	3.8	5.7	4.2	6.6	4.6	7.1	4.6	7.6	4.6	7.8	4.6	7.9	4.4
		35.0	4.8	3.8	5.7	4.2	6.6	4.6	7.1	4.6	7.5	4.6	7.7	4.5	7.8	4.4
37.0	4.8	3.8	5.7	4.2	6.6	4.6	7.1	4.6	7.4	4.6	7.5	4.5	7.7	4.3		
39.0	4.8	3.8	5.7	4.2	6.6	4.6	7.1	4.6	7.2	4.6	7.4	4.4	7.6	4.3		
80	9.0	10.0	6.1	4.9	7.2	5.4	8.4	5.9	9.0	6.0	9.6	6.0	10.8	6.2	11.8	6.4
		12.0	6.1	4.9	7.2	5.4	8.4	5.9	9.0	6.0	9.6	6.0	10.8	6.2	11.7	6.3
		14.0	6.1	4.9	7.2	5.4	8.4	5.9	9.0	6.0	9.6	6.0	10.8	6.2	11.5	6.3
		16.0	6.1	4.9	7.2	5.4	8.4	5.9	9.0	6.0	9.6	6.0	10.8	6.2	11.4	6.2
		18.0	6.1	4.9	7.2	5.4	8.4	5.9	9.0	6.0	9.6	6.0	10.8	6.2	11.2	6.2
		20.0	6.1	4.9	7.2	5.4	8.4	5.9	9.0	6.0	9.6	6.0	10.8	6.2	11.1	6.1
		21.0	6.1	4.9	7.2	5.4	8.4	5.9	9.0	6.0	9.6	6.0	10.8	6.2	11.0	6.1
		23.0	6.1	4.9	7.2	5.4	8.4	5.9	9.0	6.0	9.6	6.0	10.6	6.2	10.8	6.0
		25.0	6.1	4.9	7.2	5.4	8.4	5.9	9.0	6.0	9.6	6.0	10.5	6.1	10.7	6.0
		27.0	6.1	4.9	7.2	5.4	8.4	5.9	9.0	6.0	9.6	6.0	10.3	6.1	10.5	5.9
		29.0	6.1	4.9	7.2	5.4	8.4	5.9	9.0	6.0	9.6	6.0	10.2	6.0	10.4	5.9
		31.0	6.1	4.9	7.2	5.4	8.4	5.9	9.0	6.0	9.6	6.0	10.0	6.0	10.2	5.8
		33.0	6.1	4.9	7.2	5.4	8.4	5.9	9.0	6.0	9.6	6.0	9.8	5.9	10.1	5.7
		35.0	6.1	4.9	7.2	5.4	8.4	5.9	9.0	6.0	9.5	6.0	9.7	5.9	9.9	5.7
37.0	6.1	4.9	7.2	5.4	8.4	5.9	9.0	6.0	9.3	5.9	9.5	5.8	9.8	5.6		
39.0	6.1	4.9	7.2	5.4	8.4	5.9	9.0	6.0	9.2	5.9	9.4	5.8	9.6	5.6		

# 5 Capacity tables

## 5-1 Cooling capacity

TC: Total capacity,kW – SHC: Sensible capacitykW

Unit size	Nominal capacity	Outdoor air temp.	Indoor air temperature													
			14.0WB		16.0WB		18.0WB		19.0WB		20.0WB		22.0WB		24.0WB	
			20.0DB		23.0DB		26.0DB		27.0DB		28.0DB		30.0DB		32.0DB	
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC		
100	11.2	10.0	7.6	6.7	9.0	7.4	10.5	8.3	11.2	8.3	11.9	8.5	13.4	8.7	14.7	8.8
		12.0	7.6	6.7	9.0	7.4	10.5	8.3	11.2	8.3	11.9	8.5	13.4	8.7	14.5	8.7
		14.0	7.6	6.7	9.0	7.4	10.5	8.3	11.2	8.3	11.9	8.5	13.4	8.7	14.4	8.6
		16.0	7.6	6.7	9.0	7.4	10.5	8.3	11.2	8.3	11.9	8.5	13.4	8.7	14.2	8.5
		18.0	7.6	6.7	9.0	7.4	10.5	8.3	11.2	8.3	11.9	8.5	13.4	8.7	14.0	8.4
		20.0	7.6	6.7	9.0	7.4	10.5	8.3	11.2	8.3	11.9	8.5	13.4	8.7	13.8	8.2
		21.0	7.6	6.7	9.0	7.4	10.5	8.3	11.2	8.3	11.9	8.5	13.4	8.7	13.7	8.2
		23.0	7.6	6.7	9.0	7.4	10.5	8.3	11.2	8.3	11.9	8.5	13.2	8.6	13.5	8.1
		25.0	7.6	6.7	9.0	7.4	10.5	8.3	11.2	8.3	11.9	8.5	13.0	8.5	13.3	8.0
		27.0	7.6	6.7	9.0	7.4	10.5	8.3	11.2	8.3	11.9	8.5	12.8	8.3	13.1	7.9
		29.0	7.6	6.7	9.0	7.4	10.5	8.3	11.2	8.3	11.9	8.5	12.6	8.3	12.9	7.9
		31.0	7.6	6.7	9.0	7.4	10.5	8.3	11.2	8.3	11.9	8.5	12.4	8.2	12.7	7.8
		33.0	7.6	6.7	9.0	7.4	10.5	8.3	11.2	8.3	11.9	8.5	12.2	8.2	12.5	7.7
		35.0	7.6	6.7	9.0	7.4	10.5	8.3	11.2	8.3	11.8	8.4	12.1	8.1	12.3	7.6
		37.0	7.6	6.7	9.0	7.4	10.5	8.3	11.2	8.3	11.6	8.3	11.9	8.1	12.2	7.6
		39.0	7.6	6.7	9.0	7.4	10.5	8.3	11.2	8.3	11.4	8.3	11.7	8.0	12.0	7.6
125	14.0	10.0	9.5	8.2	11.3	9.1	13.1	10.0	14.0	10.2	14.9	10.4	16.8	10.8	18.4	10.9
		12.0	9.5	8.2	11.3	9.1	13.1	10.0	14.0	10.2	14.9	10.4	16.8	10.8	18.2	10.8
		14.0	9.5	8.2	11.3	9.1	13.1	10.0	14.0	10.2	14.9	10.4	16.8	10.8	18.0	10.7
		16.0	9.5	8.2	11.3	9.1	13.1	10.0	14.0	10.2	14.9	10.4	16.8	10.8	17.7	10.5
		18.0	9.5	8.2	11.3	9.1	13.1	10.0	14.0	10.2	14.9	10.4	16.8	10.8	17.5	10.4
		20.0	9.5	8.2	11.3	9.1	13.1	10.0	14.0	10.2	14.9	10.4	16.8	10.8	17.2	10.2
		21.0	9.5	8.2	11.3	9.1	13.1	10.0	14.0	10.2	14.9	10.4	16.8	10.8	17.1	10.2
		23.0	9.5	8.2	11.3	9.1	13.1	10.0	14.0	10.2	14.9	10.4	16.5	10.7	16.9	10.1
		25.0	9.5	8.2	11.3	9.1	13.1	10.0	14.0	10.2	14.9	10.4	16.3	10.5	16.6	10.0
		27.0	9.5	8.2	11.3	9.1	13.1	10.0	14.0	10.2	14.9	10.4	16.1	10.4	16.4	9.9
		29.0	9.5	8.2	11.3	9.1	13.1	10.0	14.0	10.2	14.9	10.4	15.8	10.2	16.2	9.9
		31.0	9.5	8.2	11.3	9.1	13.1	10.0	14.0	10.2	14.9	10.4	15.6	10.1	15.9	9.8
		33.0	9.5	8.2	11.3	9.1	13.1	10.0	14.0	10.2	14.9	10.4	15.3	10.0	15.7	9.7
		35.0	9.5	8.2	11.3	9.1	13.1	10.0	14.0	10.2	14.8	10.4	15.1	10.0	15.4	9.6
		37.0	9.5	8.2	11.3	9.1	13.1	10.0	14.0	10.2	14.5	10.3	14.9	9.9	15.2	9.5
		39.0	9.5	8.2	11.3	9.1	13.1	10.0	14.0	10.3	14.3	10.1	14.6	9.8	15.0	9.4
200	22.4	10.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	26.8	17.6	29.4	17.8
		12.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	26.8	17.6	29.0	17.6
		14.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	26.8	17.6	28.7	17.4
		16.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	26.8	17.6	28.3	17.2
		18.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	26.8	17.6	27.9	16.9
		20.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	26.8	17.6	27.5	16.7
		21.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	26.8	17.6	27.4	16.6
		23.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	26.4	17.3	27.0	16.4
		25.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	26.1	17.1	26.6	16.2
		27.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	25.7	16.8	26.2	16.1
		29.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	25.3	16.6	25.8	15.9
		31.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	24.9	16.4	25.4	15.7
		33.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	24.5	16.3	25.0	15.6
		35.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.6	17.0	24.2	16.1	24.6	15.4
		37.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.2	16.8	23.8	16.0	24.3	15.3
		39.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	22.8	16.6	23.4	15.8	23.9	15.1
250	28.0	10.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	33.5	22.1	36.8	22.1
		12.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	33.5	22.1	36.3	21.8
		14.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	33.5	22.1	35.9	21.6
		16.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	33.5	22.1	35.4	21.3
		18.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	33.5	22.1	34.9	21.0
		20.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	33.5	22.1	34.4	20.7
		21.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	33.5	22.1	34.2	20.6
		23.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	33.0	21.7	33.7	20.3
		25.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	32.6	21.5	33.2	20.2
		27.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	32.1	21.2	32.8	20.0
		29.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	31.6	20.9	32.3	19.9
		31.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	31.1	20.6	31.8	19.7
		33.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	30.6	20.4	31.3	19.5
		35.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.5	21.1	30.2	20.2	30.8	19.4
		37.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.0	20.9	29.7	20.0	30.4	19.2
		39.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	21.0	28.5	20.6	29.2	19.8	29.9	19.0

## 5 Capacity tables

### 5-2 Heating capacity

Unit Size	Nominal capacity	Outdoor air temperature		Indoor air temperature °CDB					
				16.0	18.0	20.0	21.0	22.0	24.0
		°CDB	°CWB	kW	kW	kW	kW	kW	kW
40	5.0	-19.8	-20.0	3.0	2.9	2.9	2.9	2.9	2.9
		-18.8	-19.0	3.0	3.0	3.0	3.0	3.0	3.0
		-16.7	-17.0	3.2	3.2	3.2	3.2	3.2	3.2
		-14.7	-15.0	3.4	3.4	3.4	3.4	3.4	3.4
		-12.6	-13.0	3.6	3.6	3.6	3.5	3.5	3.5
		-10.5	-11.0	3.7	3.7	3.7	3.7	3.7	3.7
		-9.5	-10.0	3.8	3.8	3.8	3.8	3.8	3.8
		-8.5	-9.1	3.9	3.9	3.9	3.9	3.9	3.9
		-7.0	-7.6	4.0	4.0	4.0	4.0	4.0	4.0
		-5.0	-5.6	4.2	4.2	4.2	4.2	4.2	4.2
		-3.0	-3.7	4.4	4.4	4.4	4.4	4.4	4.4
		0.0	-0.7	4.7	4.6	4.6	4.6	4.6	4.4
		3.0	2.2	4.9	4.9	4.9	4.8	4.7	4.4
		5.0	4.1	5.1	5.1	5.0	4.8	4.7	4.4
		7.0	6.0	5.2	5.2	5.0	4.8	4.7	4.4
		9.0	7.9	5.4	5.3	5.0	4.8	4.7	4.4
11.0	9.8	5.6	5.3	5.0	4.8	4.7	4.4		
13.0	11.8	5.6	5.3	5.0	4.8	4.7	4.4		
15.0	13.7	5.6	5.3	5.0	4.8	4.7	4.4		
50	6.3	-19.8	-20.0	3.7	3.7	3.7	3.7	3.7	3.7
		-18.8	-19.0	3.8	3.8	3.8	3.8	3.8	3.8
		-16.7	-17.0	4.1	4.0	4.0	4.0	4.0	4.0
		-14.7	-15.0	4.3	4.3	4.3	4.2	4.2	4.2
		-12.6	-13.0	4.5	4.5	4.5	4.5	4.5	4.5
		-10.5	-11.0	4.7	4.7	4.7	4.7	4.7	4.7
		-9.5	-10.0	4.8	4.8	4.8	4.8	4.8	4.8
		-8.5	-9.1	4.9	4.9	4.9	4.9	4.9	4.9
		-7.0	-7.6	5.1	5.1	5.1	5.1	5.1	5.1
		-5.0	-5.6	5.3	5.3	5.3	5.3	5.3	5.3
		-3.0	-3.7	5.5	5.5	5.5	5.5	5.5	5.5
		0.0	-0.7	5.9	5.9	5.8	5.8	5.8	5.5
		3.0	2.2	6.2	6.2	6.2	6.1	5.9	5.5
		5.0	4.1	6.4	6.4	6.3	6.1	5.9	5.5
		7.0	6.0	6.6	6.6	6.3	6.1	5.9	5.5
		9.0	7.9	6.8	6.7	6.3	6.1	5.9	5.5
11.0	9.8	7.0	6.7	6.3	6.1	5.9	5.5		
13.0	11.8	7.1	6.7	6.3	6.1	5.9	5.5		
15.0	13.7	7.1	6.7	6.3	6.1	5.9	5.5		
63	8.0	-19.8	-20.0	4.7	4.7	4.7	4.7	4.7	4.7
		-18.8	-19.0	4.9	4.9	4.8	4.8	4.8	4.8
		-16.7	-17.0	5.1	5.1	5.1	5.1	5.1	5.1
		-14.7	-15.0	5.4	5.4	5.4	5.4	5.4	5.4
		-12.6	-13.0	5.7	5.7	5.7	5.7	5.7	5.7
		-10.5	-11.0	6.0	6.0	6.0	6.0	6.0	5.9
		-9.5	-10.0	6.1	6.1	6.1	6.1	6.1	6.1
		-8.5	-9.1	6.3	6.3	6.2	6.2	6.2	6.2
		-7.0	-7.6	6.5	6.5	6.4	6.4	6.4	6.4
		-5.0	-5.6	6.8	6.7	6.7	6.7	6.7	6.7
		-3.0	-3.7	7.0	7.0	7.0	7.0	7.0	7.0
		0.0	-0.7	7.5	7.4	7.4	7.4	7.4	7.0
		3.0	2.2	7.9	7.8	7.8	7.7	7.5	7.0
		5.0	4.1	8.1	8.1	8.0	7.7	7.5	7.0
		7.0	6.0	8.4	8.4	8.0	7.7	7.5	7.0
		9.0	7.9	8.7	8.5	8.0	7.7	7.5	7.0
11.0	9.8	8.9	8.5	8.0	7.7	7.5	7.0		
13.0	11.8	9.0	8.5	8.0	7.7	7.5	7.0		
15.0	13.7	9.0	8.5	8.0	7.7	7.5	7.0		
80	10.0	-19.8	-20.0	5.9	5.9	5.9	5.9	5.9	5.8
		-18.8	-19.0	6.1	6.1	6.0	6.0	6.0	6.0
		-16.7	-17.0	6.4	6.4	6.4	6.4	6.4	6.4
		-14.7	-15.0	6.8	6.8	6.8	6.7	6.7	6.7
		-12.6	-13.0	7.1	7.1	7.1	7.1	7.1	7.1
		-10.5	-11.0	7.5	7.5	7.5	7.5	7.4	7.4
		-9.5	-10.0	7.7	7.7	7.6	7.6	7.6	7.6
		-8.5	-9.1	7.8	7.8	7.8	7.8	7.8	7.8
		-7.0	-7.6	8.1	8.1	8.1	8.1	8.0	8.0
		-5.0	-5.6	8.4	8.4	8.4	8.4	8.4	8.4
		-3.0	-3.7	8.8	8.8	8.7	8.7	8.7	8.7
		0.0	-0.7	9.3	9.3	9.3	9.3	9.3	8.7
		3.0	2.2	9.8	9.8	9.8	9.7	9.4	8.7
		5.0	4.1	10.2	10.1	10.0	9.7	9.4	8.7
		7.0	6.0	10.5	10.5	10.0	9.7	9.4	8.7
		9.0	7.9	10.8	10.6	10.0	9.7	9.4	8.7
11.0	9.8	11.2	10.6	10.0	9.7	9.4	8.7		
13.0	11.8	11.3	10.6	10.0	9.7	9.4	8.7		
15.0	13.7	11.3	10.6	10.0	9.7	9.4	8.7		

## 5 Capacity tables

### 5-2 Heating capacity

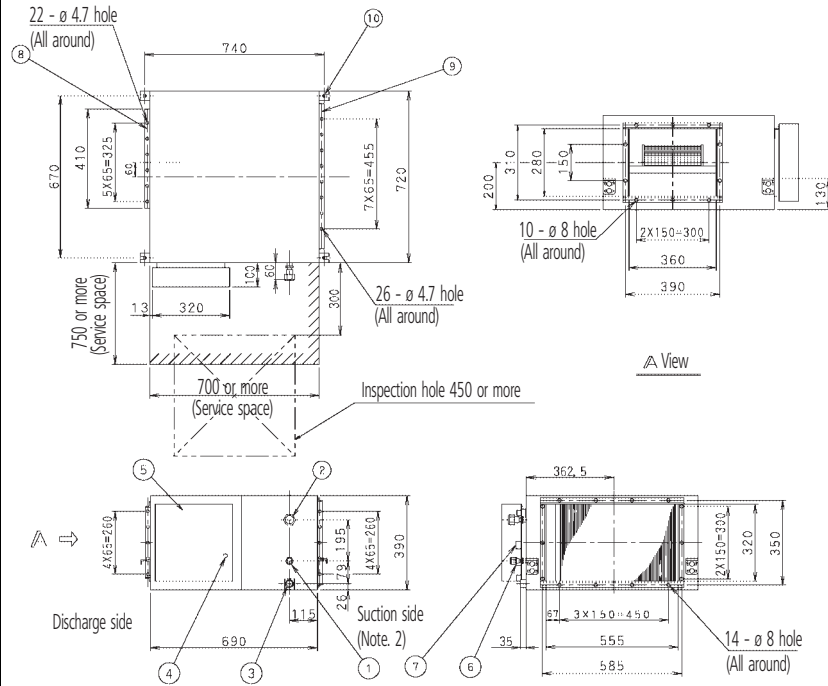
Unit Size	Nominal capacity	Outdoor air temperature		Indoor air temperature °CDB					
				16.0	18.0	20.0	21.0	22.0	24.0
		°CDB	°CWB	kW	kW	kW	kW	kW	kW
100	12.5	-19.8	-20.0	7.4	7.4	7.3	7.3	7.3	7.3
		-18.8	-19.0	7.6	7.6	7.6	7.5	7.5	7.5
		-16.7	-17.0	8.0	8.0	8.0	8.0	8.0	8.0
		-14.7	-15.0	8.5	8.5	8.4	8.4	8.4	8.4
		-12.6	-13.0	8.9	8.9	8.9	8.9	8.9	8.8
		-10.5	-11.0	9.4	9.3	9.3	9.3	9.3	9.3
		-9.5	-10.0	9.6	9.6	9.5	9.5	9.5	9.5
		-8.5	-9.1	9.8	9.8	9.7	9.7	9.7	9.7
		-7.0	-7.6	10.1	10.1	10.1	10.1	10.1	10.0
		-5.0	-5.6	10.6	10.5	10.5	10.5	10.5	10.5
		-3.0	-3.7	11.0	11.0	10.9	10.9	10.9	10.9
		0.0	-0.7	11.6	11.6	11.6	11.6	11.6	10.9
		3.0	2.2	12.3	12.3	12.2	12.1	11.7	10.9
		5.0	4.1	12.7	12.7	12.5	12.1	11.7	10.9
		7.0	6.0	13.1	13.1	12.5	12.1	11.7	10.9
		9.0	7.9	13.5	13.3	12.5	12.1	11.7	10.9
11.0	9.8	14.0	13.3	12.5	12.1	11.7	10.9		
13.0	11.8	14.1	13.3	12.5	12.1	11.7	10.9		
15.0	13.7	14.1	13.3	12.5	12.1	11.7	10.9		
125	16.0	-19.8	-20.0	9.4	9.4	9.4	9.4	9.4	9.3
		-18.8	-19.0	9.7	9.7	9.7	9.7	9.6	9.6
		-16.7	-17.0	10.3	10.3	10.2	10.2	10.2	10.2
		-14.7	-15.0	10.9	10.8	10.8	10.8	10.8	10.7
		-12.6	-13.0	11.4	11.4	11.4	11.4	11.3	11.3
		-10.5	-11.0	12.0	12.0	11.9	11.9	11.9	11.9
		-9.5	-10.0	12.3	12.2	12.2	12.2	12.2	12.2
		-8.5	-9.1	12.5	12.5	12.5	12.5	12.4	12.4
		-7.0	-7.6	13.0	12.9	12.9	12.9	12.9	12.8
		-5.0	-5.6	13.5	13.5	13.5	13.4	13.4	13.4
		-3.0	-3.7	14.1	14.0	14.0	14.0	14.0	13.9
		0.0	-0.7	14.9	14.9	14.8	14.8	14.8	13.9
		3.0	2.2	15.7	15.7	15.7	15.5	15.0	13.9
		5.0	4.1	16.3	16.2	16.0	15.5	15.0	13.9
		7.0	6.0	16.8	16.8	16.0	15.5	15.0	13.9
		9.0	7.9	17.3	17.0	16.0	15.5	15.0	13.9
11.0	9.8	17.9	17.0	16.0	15.5	15.0	13.9		
13.0	11.8	18.1	17.0	16.0	15.5	15.0	13.9		
15.0	13.7	18.1	17.0	16.0	15.5	15.0	13.9		
200	25.0	-19.8	-20.0	14.8	14.7	14.7	14.7	14.6	14.6
		-18.8	-19.0	15.2	15.2	15.1	15.1	15.1	15.0
		-16.7	-17.0	16.1	16.0	16.0	16.0	16.0	15.9
		-14.7	-15.0	17.0	16.9	16.9	16.9	16.8	16.8
		-12.6	-13.0	17.9	17.8	17.8	17.7	17.7	17.7
		-10.5	-11.0	18.7	18.7	18.6	18.6	18.6	18.6
		-9.5	-10.0	19.2	19.1	19.1	19.1	19.0	19.0
		-8.5	-9.1	19.6	19.5	19.5	19.5	19.4	19.4
		-7.0	-7.6	20.2	20.2	20.2	20.1	20.1	20.1
		-5.0	-5.6	21.1	21.1	21.0	21.0	21.0	20.9
		-3.0	-3.7	22.0	21.9	21.9	21.9	21.8	21.8
		0.0	-0.7	23.3	23.2	23.2	23.2	23.2	21.8
		3.0	2.2	24.6	24.5	24.5	24.2	23.4	21.8
		5.0	4.1	25.4	25.4	25.0	24.2	23.4	21.8
		7.0	6.0	26.2	26.2	25.0	24.2	23.4	21.8
		9.0	7.9	27.1	26.6	25.0	24.2	23.4	21.8
11.0	9.8	27.9	26.6	25.0	24.2	23.4	21.8		
13.0	11.8	28.2	26.6	25.0	24.2	23.4	21.8		
15.0	13.7	28.2	26.6	25.0	24.2	23.4	21.8		
250	31.5	-19.8	-20.0	18.6	18.5	18.5	18.5	18.4	18.4
		-18.8	-19.0	19.2	19.1	19.0	19.0	19.0	18.9
		-16.7	-17.0	20.3	20.2	20.2	20.1	20.1	20.0
		-14.7	-15.0	21.4	21.3	21.3	21.2	21.2	21.2
		-12.6	-13.0	22.5	22.4	22.4	22.4	22.3	22.3
		-10.5	-11.0	23.6	23.6	23.5	23.5	23.4	23.4
		-9.5	-10.0	24.2	24.1	24.1	24.0	24.0	23.9
		-8.5	-9.1	24.7	24.6	24.6	24.5	24.5	24.4
		-7.0	-7.6	25.5	25.4	25.4	25.4	25.3	25.3
		-5.0	-5.6	26.6	26.6	26.5	26.5	26.4	26.4
		-3.0	-3.7	27.7	27.6	27.6	27.5	27.5	27.5
		0.0	-0.7	29.3	29.3	29.2	29.2	29.2	27.5
		3.0	2.2	31.0	30.9	30.8	30.5	29.5	27.5
		5.0	4.1	32.0	32.0	31.5	30.5	29.5	27.5
		7.0	6.0	33.1	33.0	31.5	30.5	29.5	27.5
		9.0	7.9	34.1	33.5	31.5	30.5	29.5	27.5
11.0	9.8	35.2	33.5	31.5	30.5	29.5	27.5		
13.0	11.8	35.5	33.5	31.5	30.5	29.5	27.5		
15.0	13.7	35.5	33.5	31.5	30.5	29.5	27.5		



# 6 Dimensions

## 6-1 Dimensional drawings

### FXMQ40,50MVE



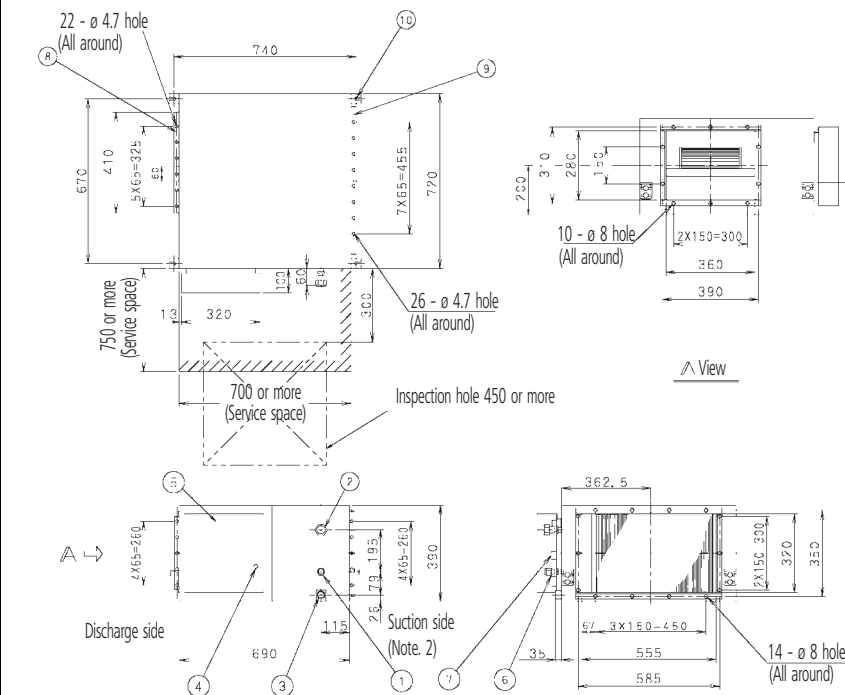
Nr	Part name	Description
1	Liquid pipe connection	$\varnothing$ 6.4 flare connection
2	Gas pipe connection	$\varnothing$ 12.7 flare connection
3	Drain pipe connection	VP25 (O.D. $\varnothing$ 32, I.D. $\varnothing$ 25)
4	Ground terminal	M4
5	Switch box	
6	Interunit wiring connection	
7	Power supply connection	
8	Air discharge flange	
9	Air suction flange	
10	Hook	For M8 - M10

#### 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.

3D038848

### FXMQ63,80MVE



Nr	Part name	Description
1	Liquid pipe connection	$\varnothing$ 9.5 flare connection
2	Gas pipe connection	$\varnothing$ 15.9 flare connection
3	Drain pipe connection	VP25 (O.D. $\varnothing$ 32, I.D. $\varnothing$ 25)
4	Ground terminal	M4
5	Switch box	
6	Interunit wiring connection	
7	Power supply connection	
8	Air discharge flange	
9	Air suction flange	
10	Hook	For M8 - M10

#### NOTES

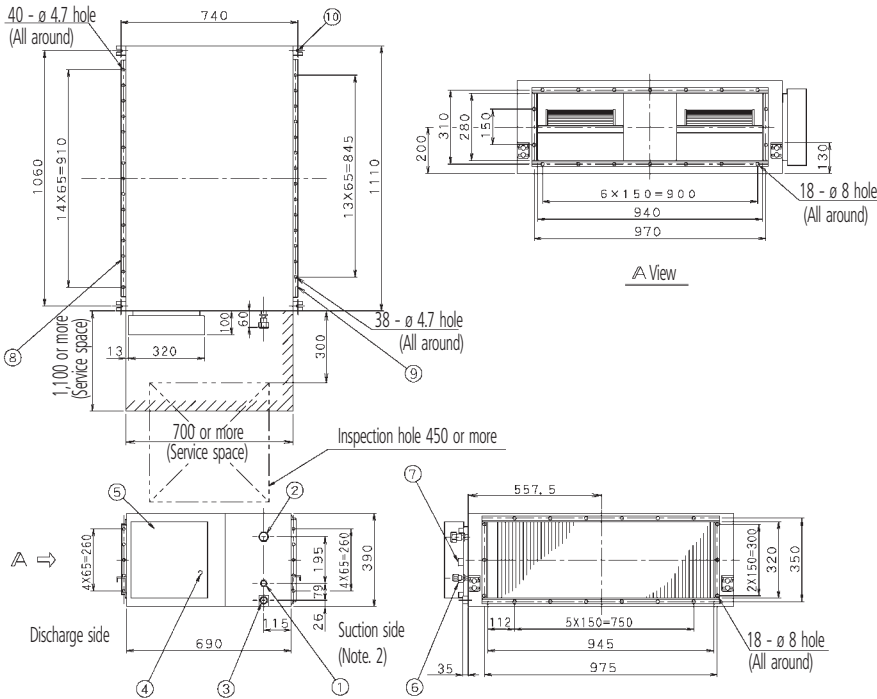
- 1 Location of unit's name plate: switch box surface.
- 2 Mount the air filter at the suction side. (Select its colorimethod (gravity method) 50% or more).
- 3 Be sure to install a drain trap, as the drain outlet of the air-conditioner becomes negative pressure.
- 4 Be sure to install a drain trap for each unit separately, when you install a consolidated drain piping.

3D038849

## 6 Dimensions

### 6-1 Dimensional drawings

#### FXMQ100,125MVE



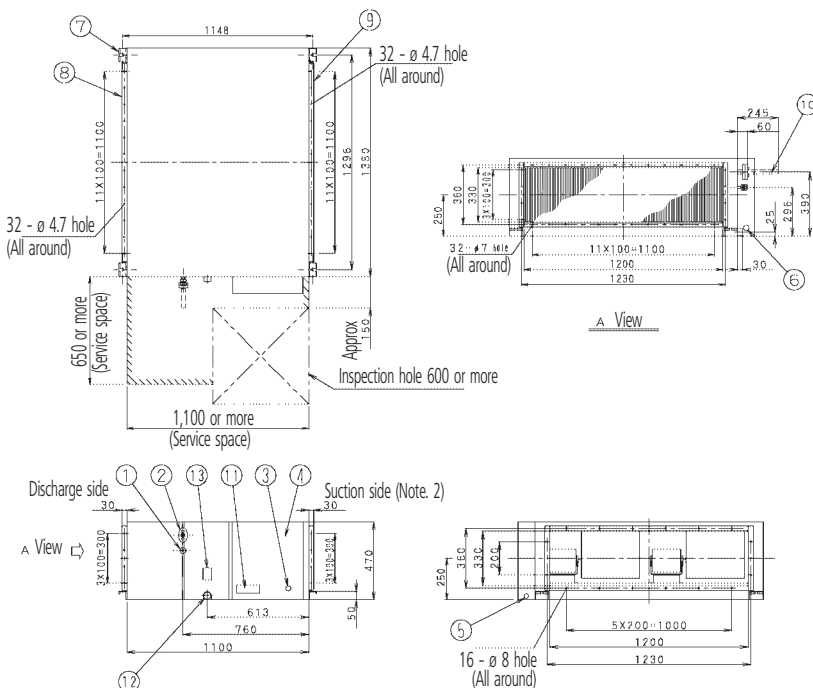
Nr	Part name	Description
1	Liquid pipe connection	ø 9.5 flare connection
2	Gas pipe connection	ø 15.9 flare connection
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Ground terminal	M4
5	Switch box	
6	Interunit wiring connection	
7	Power supply connection	
8	Air discharge flange	
9	Air suction flange	
10	Hook	For M8~M10

#### 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.

3D038850

#### FXMQ200,250MVE



Piping size (field supply)

Model	Gas	Liquid
FXMQ200MVE	ø 19.1 attached piping	ø 9.5
FXMQ250MVE	ø 22.2 attached piping	ø 9.5

Nr	Part name	Description
1	Liquid pipe connection	Flare connection
2	Gas pipe connection	Attendant piping connection
3	Ground terminal	M5 (inside switch box)
4	Switch box	
5	Power supply wiring connection	
6	Transmission wiring connection	
7	Hook	M10
8	Discharge companion flange	
9	Suction flange	
10	Attached piping	Brazing
11	Name plate	
12	Drain piping connection	PS1B Internal thread VP25 (O.D. ø33.349, I.D. ø30.391)
13	Water supply port	

#### NOTES

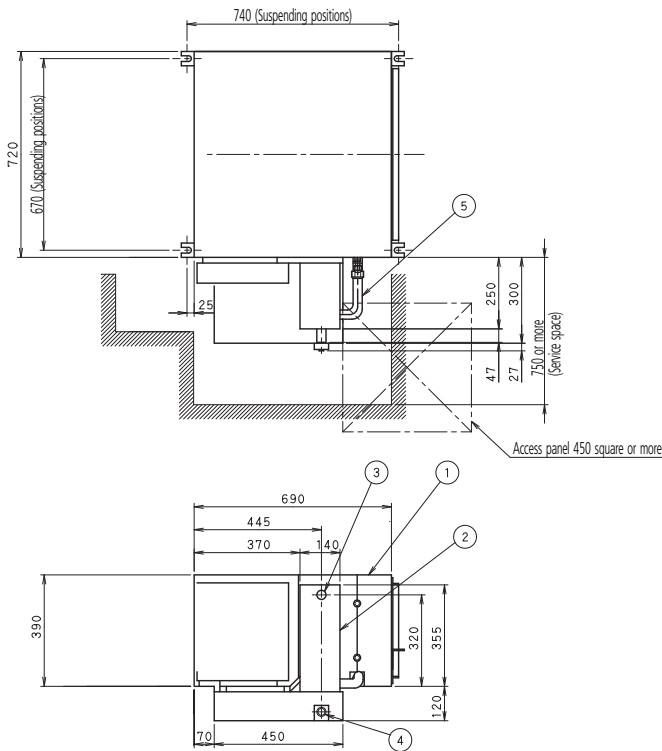
- 1 Location of unit's name plate: switch box surface.
- 2 Mount the air filter at the suction side. (Select its colorimethod (gravity method) 50% or more).

3D038851

## 6 Dimensions

### 6-2 Dimensional drawings with drain pump kit

FXMQ40-80MVE



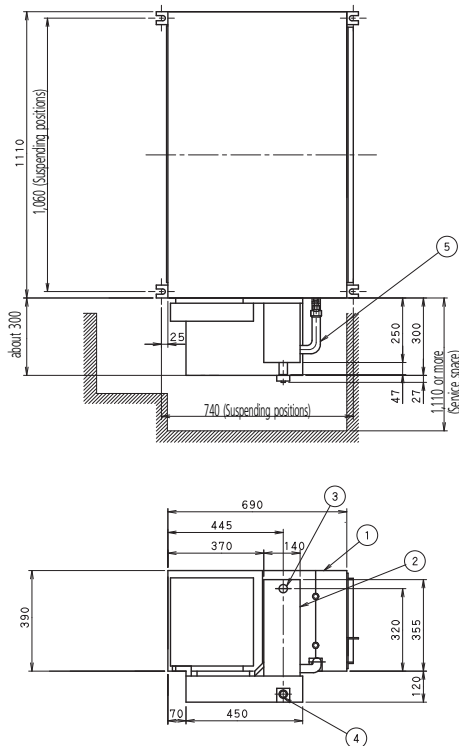
Nr	Part name	Description
1	Ceiling mounted duct type's body	
2	Drain pump kit	
3	Drain pipe connection	VP25 (O.D. ø32)
4	Water extracting hole	
5	Drain connection pipe	Attached to the drain pump kit

**NOTES**

- 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.

DU824-203K

FXMQ100,125MVE



Nr	Part name	Description
1	Ceiling mounted duct type's body	
2	Drain pump kit	
3	Drain pipe connection	VP25 (O.D. ø32)
4	Water extracting hole	
5	Drain connection pipe	Attached to the drain pump kit

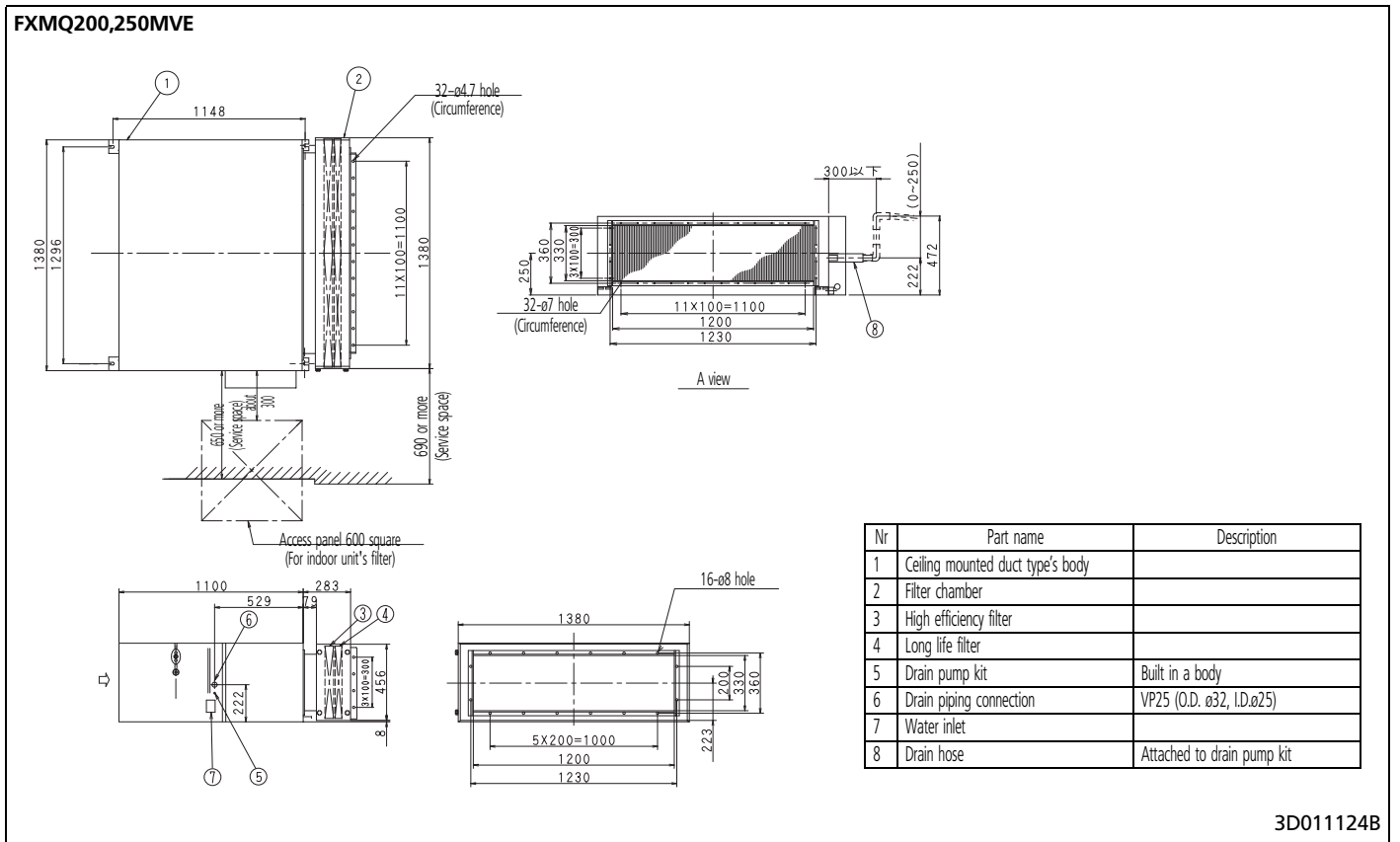
**NOTES**

- 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.

DU827-245D

## 6 Dimensions

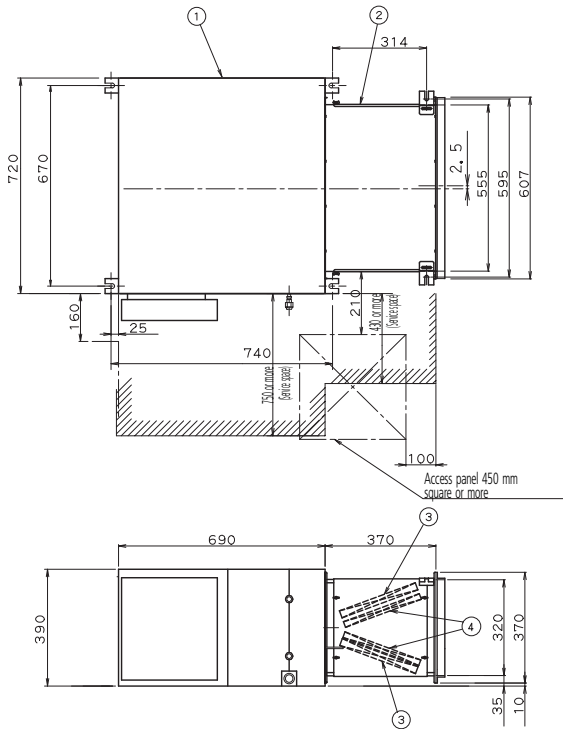
### 6-2 Dimensional drawings with drain pump kit



## 6 Dimensions

### 6-3 Dimensional drawings with high efficiency filter/long life filter

FXMQ40-80MVE



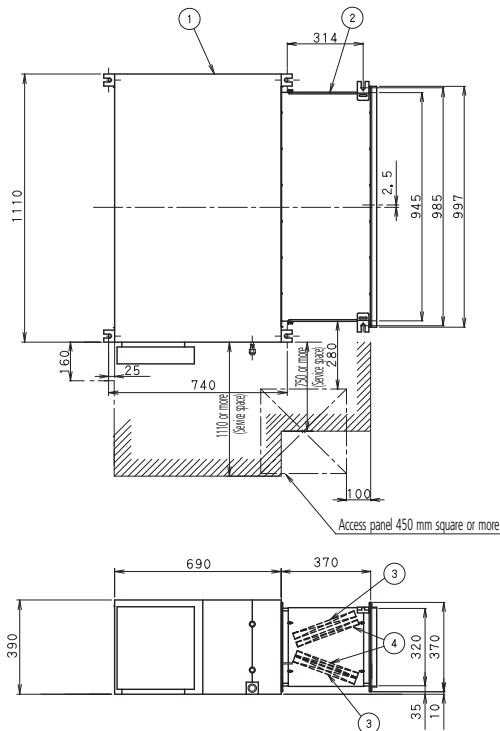
Nr	Part name	Description
1	Ceiling mounted duct type's body	
2	Filter chamber	
3	High efficiency filter	
4	Long life filter	

#### NOTES

- 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 centralised drain system will be applied, each indoor unit should have a drain trap individually.

DU824-202G

FXMQ100,125MVE



Nr	Part name	Description
1	Ceiling mounted duct type's body	
2	Filter chamber	
3	High efficiency filter	
4	Long life filter	

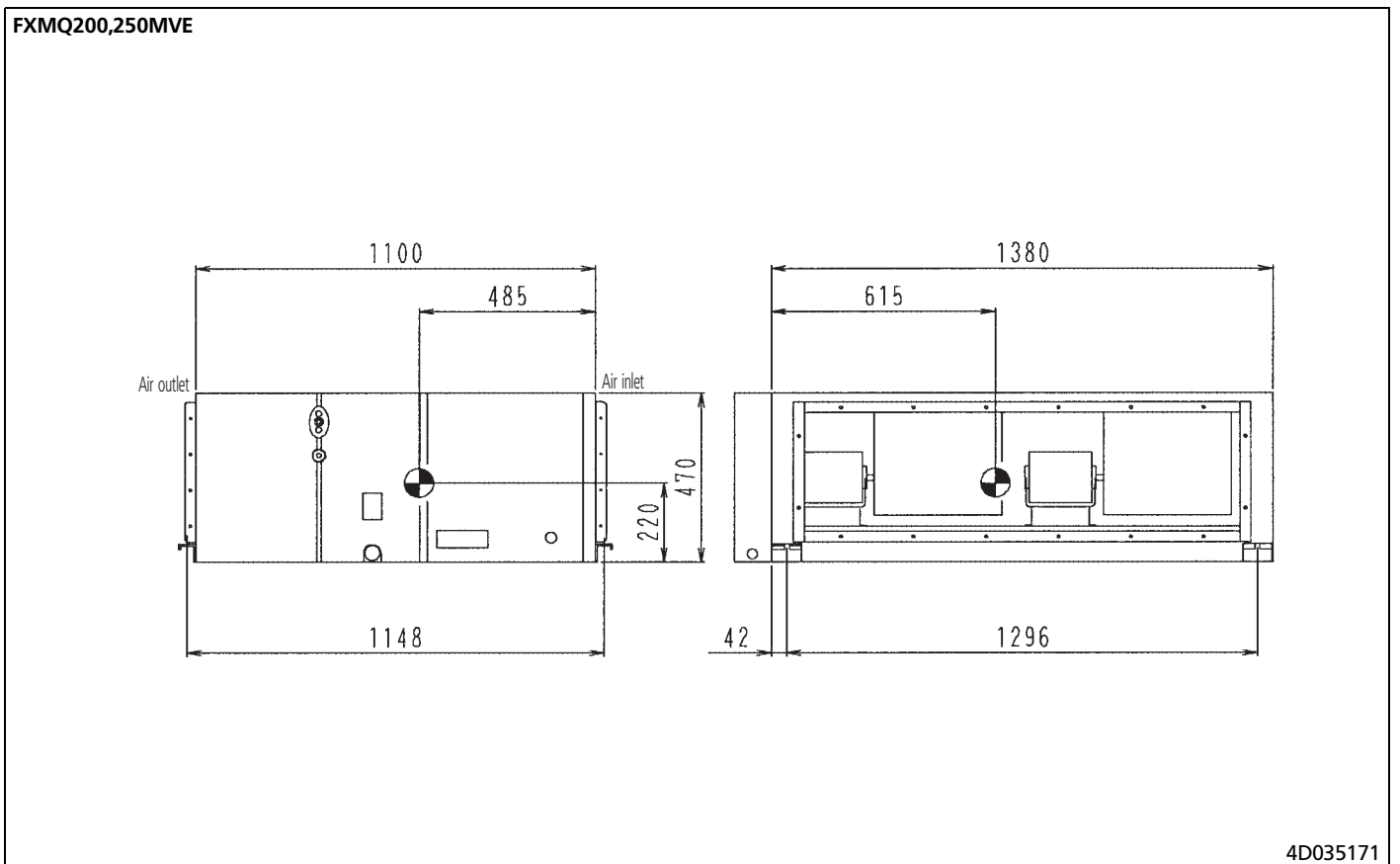
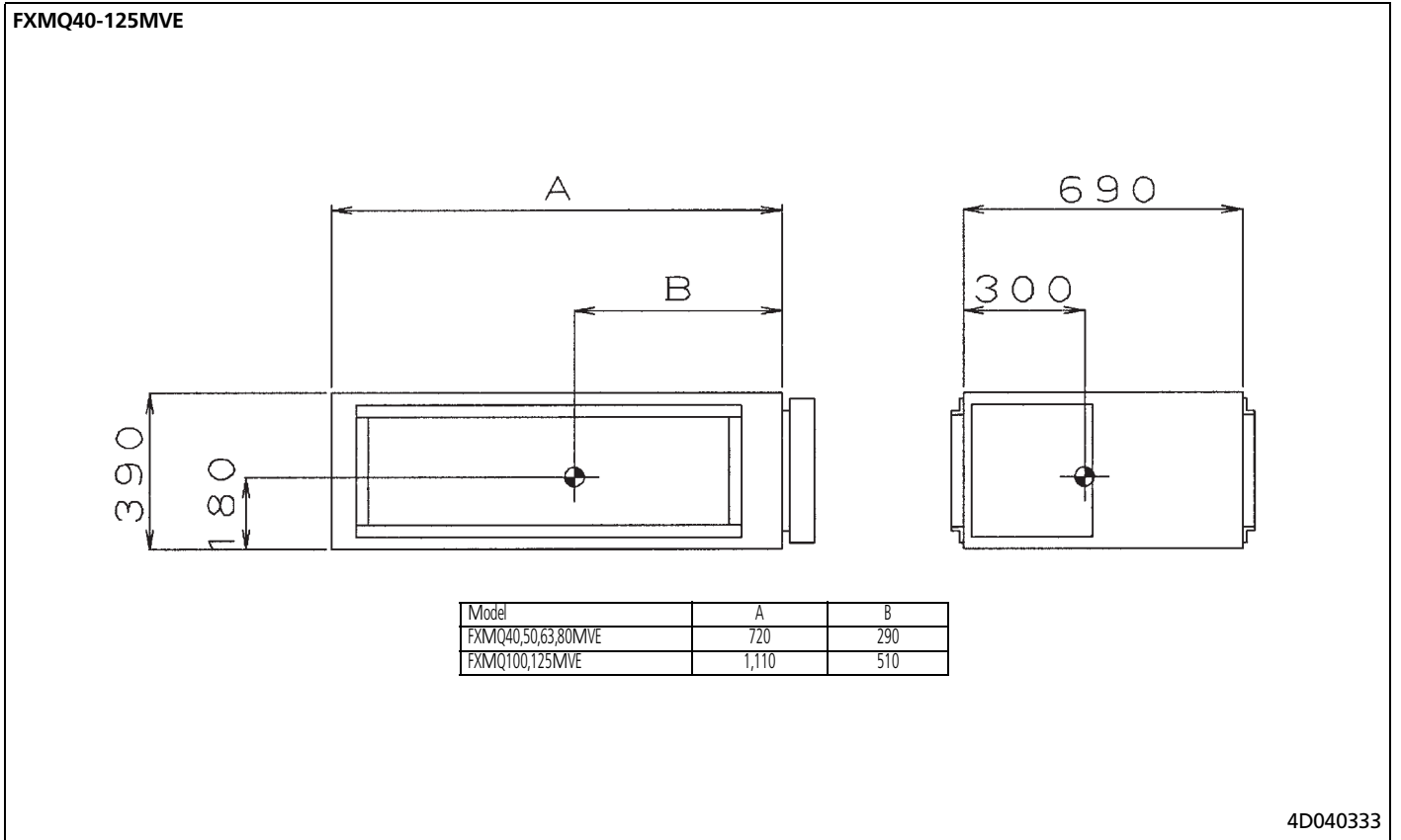
#### NOTES

- 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 centralised drain system will be applied, each indoor unit should have a drain trap individually.

DU827-244G

## 6 Dimensions

### 6-4 Centre of gravity

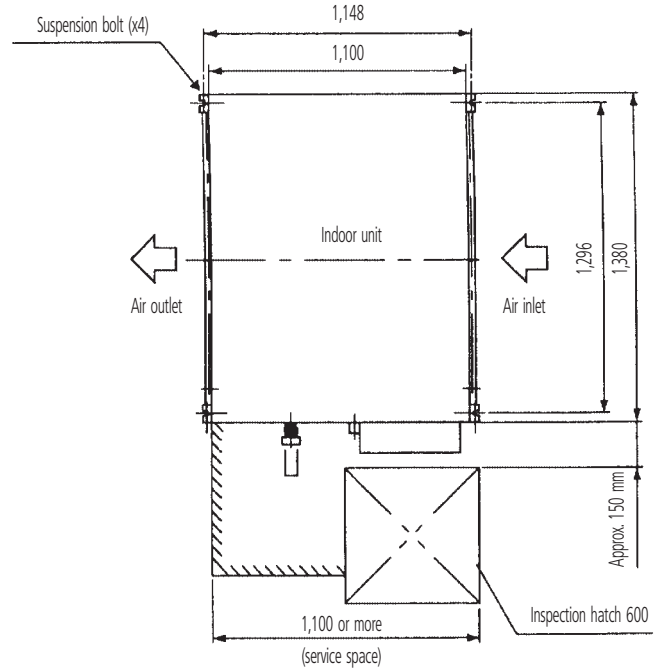
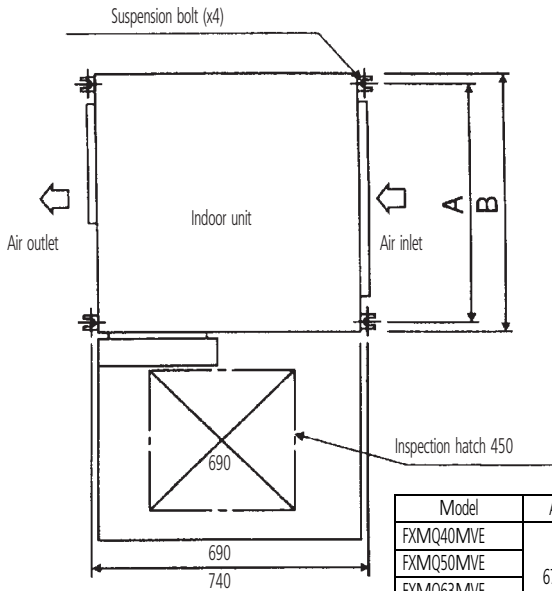


## 6 Dimensions

### 6-5 Bolt pitch

FXMQ40-125MVE

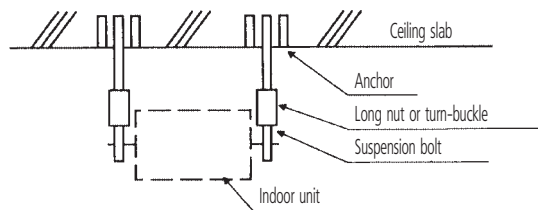
FXMQ200,250MVE



#### NOTES

- 1 Install a canvas duct to the air discharge outlet and air inlet so that vibration from the machine body is not 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.
- 2 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.

6



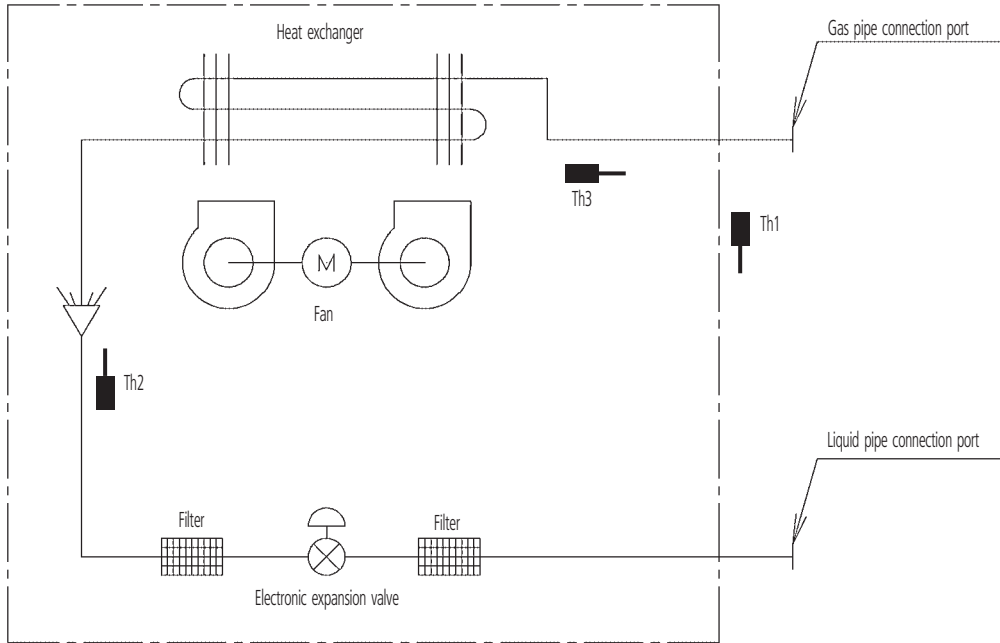
#### NOTE

- 1 All the above parts are to be procured in the field.

3P086156-2-5

# 7 Piping Diagram

FXMQ-MVE



Piping connection diameters

Model	Gas	Liquid
FXMQ40,50MVE	ø12.7	ø6.4
FXMQ63,80,100,125MVE	ø15.9	ø9.5
FXMQ200MVE	ø19.1	ø9.5
FXMQ250MVE	ø22.2	ø9.5

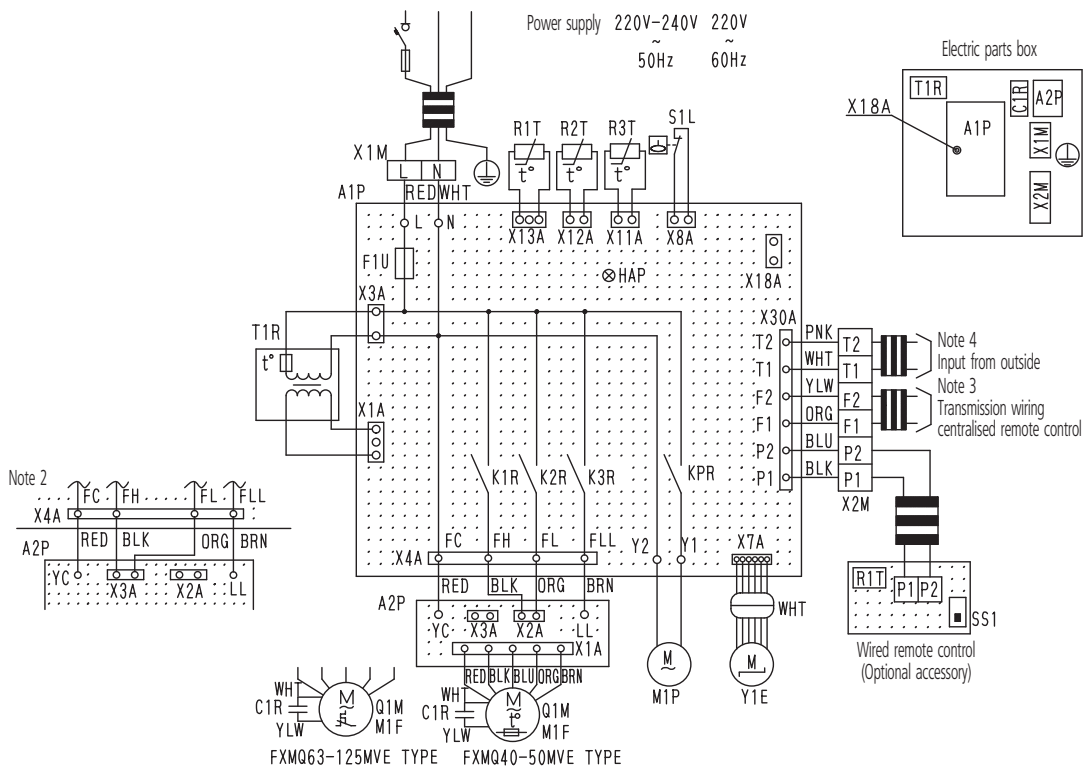
- Th1 : Thermistor for suction air temperature
- Th2 : Thermistor for liquid line temperature
- Th3 : Thermistor for gas line temperature

- ⏪ Check valve
- ↪ Flare connection
- ⏏ Screw connection
- ⏏ Flange connection
- ✕ Pinched pipe
- ⤵ Spinned pipe



# 8 Wiring Diagrams

FXMQ40-125MVE



Indoor unit			Optional parts
A1P	Printed circuit board	M1F	Motor (indoor fan)
A2P	Terminal board	Q1M	Thermo switch M1F built-in only
C1R	Capacitor (M1F)	R1T	Thermistor (air)
		R2T • R3T	Thermistor (coil)
F1U	Fuse (250V, 5A, Ⓟ) 40-80 type	S1L	Float switch
F1U	Fuse (250V, 10A, Ⓟ) 100-125 type	T1R	Transformer (220-240V/22V)
HAP	Light emitting diode (service monitor-green)	X1M	Terminal strip (power)
K1R-K3R	Magnetic relay (M1F)	X2M	Terminal strip (control)
KPR	Magnetic relay (M1P)	Y1E	Electronic expansion valve
		M1P	Motor (drain pump)
		SS1	Selector switch (main/sub)
		R1T	Thermistor (air)
			Connector for optional parts
		X18A	Connector (wiring adapter for electrical appendices)

□ □ □ □ : Terminal  
 ○ □ □ □, D- : Connector  
 -| | | : Field wiring

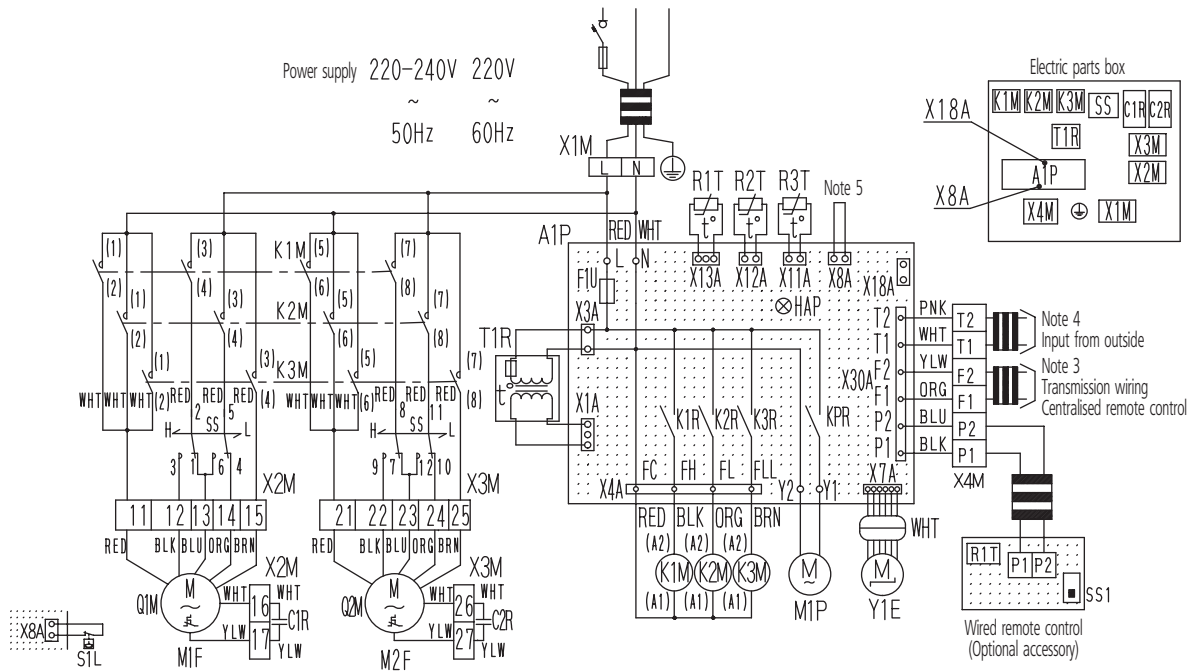
COLORS : BLK : Black      PNK : Pink  
 BLU : Blue      RED : Red  
 BRN : Brown      WHT : White  
 ORG : Orange      YLW : Yellow

## NOTES

- 1 Use copper conductors only.
- 2 In case of high E.S.P. operation, change the wiring connection of X2A as shown.
- 3 In case of using centralised remote control, 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 control, more details can be found in the installation manual attached to the unit.

# 8 Wiring Diagrams

FXMQ200,250MVE



Indoor unit			Optional parts		
A1P	Printed circuit board	Q1M • Q2M	Thermo switch (M1F • 2F embedded)	M1P	Motor (drain pump)
C1R • 2R	Capacitor (M1F • 2F)	R1T	Thermistor (air)		
F1U	Fuse (250V, 5A, )	R2T • 3T	Thermistor (coil)	Wired remote control	
HAP	Light emitting diode (service monitor-green)	SS	Selector switch (static pressure)	SS1	Selector switch (main/sub)
K1M	Magnetic contactor (M1F • 2F)	T1R	Transformer (220-240V/22V)	R1T	Thermistor (air)
K2M	Magnetic contactor (M1F • 2F)	X1M	Terminal strip (power)	Connector for optional parts	
K3M	Magnetic contactor (M1F • 2F)	X2M-X3M	Terminal strip		
K1R-K2R	Magnetic relay (M1F • 2F)	X4M	Terminal strip (control)		
KPR	Magnetic relay (M1P)	Y1E	Electronic expansion valve	X8A	Connector (float switch)
M1F • 2F	Motor (indoor fan)			X18A	Connector (wiring adapter for electrical appendices)

- : Terminal  
 : Connector  
 : Jumper connector  
 : Field wiring
- COLORS : BLK : Black      PNK : Pink  
           BLU : Blue         RED : Red  
           BRN : Brown      WHT : White  
           ORG : Orange      YLW : Yellow

### NOTES

- In case of high E.S.P. operation, change the switch (SS) for "H".
- Use copper conductors only.
- In case of using centralised remote control, connect it to the unit in accordance with the attached instruction manual.
- When connecting the input wires from outside, forced off or on/off control operation can be selected by remote control.
- In case of installing the drain pump, remove the jumper and execute the additional wiring for float switch (S1).

# 9 Sound level

## 9-1 Sound level data

Model	Sound pressure level - 220V		Measuring location	Sound power level
	H	L		
FXMQ40MVE	39	35		*
FXMQ50MVE	39	35		*
FXMQ63MVE	42	38		*
FXMQ80MVE	43	39		*
FXMQ100MVE	43	39		*
FXMQ125MVE	45	42		*
FXMQ200MVE	48	45		*
FXMQ250MVE	48	45		*

**NOTES**

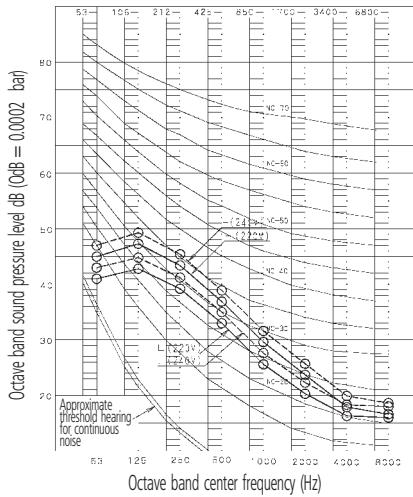
- 1 Reference acoustic pressure 0 dB = 20 Pa.
- 2 Measuring place: anechoic chamber
- 3 Operation noise differs with operation and ambient conditions.  
\*Data were not available at the time of publication

## 9-2 Sound pressure spectrums

○—○ 220V  
○---○ 240V

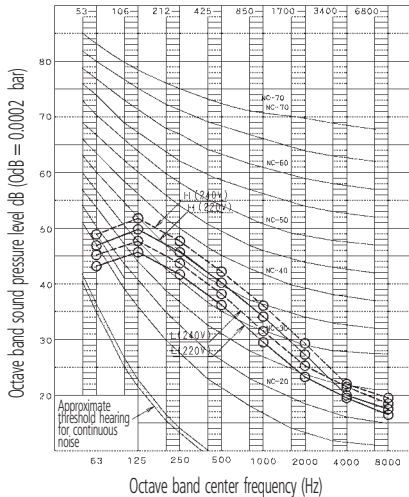
FXMQ40,50MVE

4D034593A



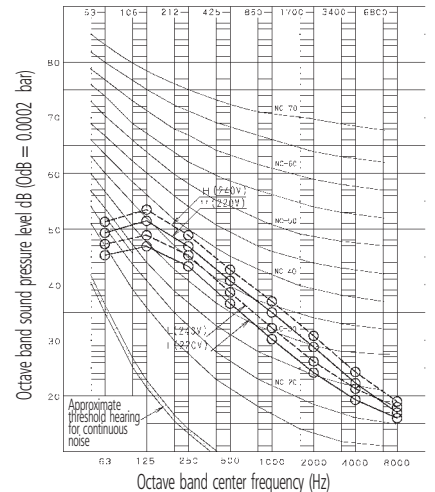
FXMQ63MVE

4D034594A



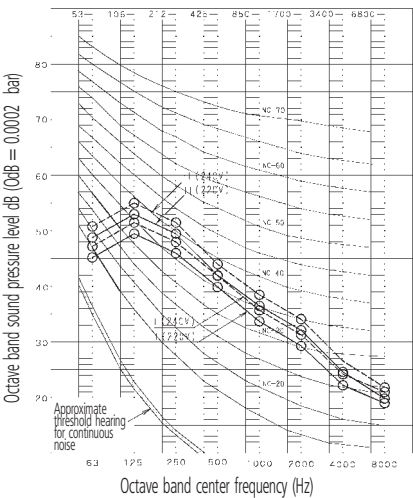
FXMQ80,100MVE

4D034595A



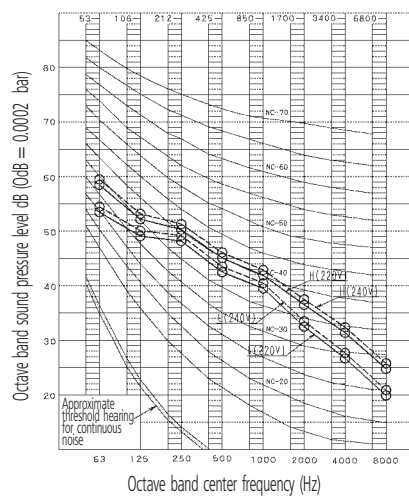
FXMQ125MVE

4D034596



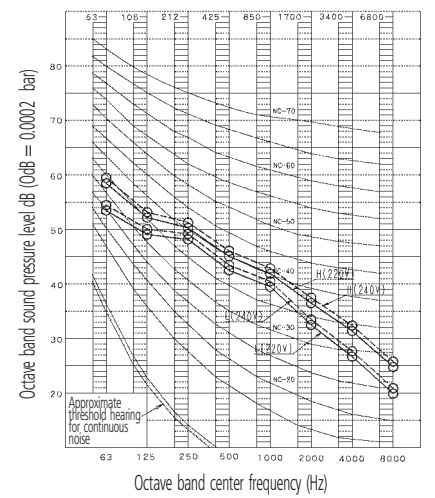
FXMQ200MVE

4D035168



FXMQ250MVE

4D035169



# 10 Fan characteristics

FXMQ40,50,63MVE

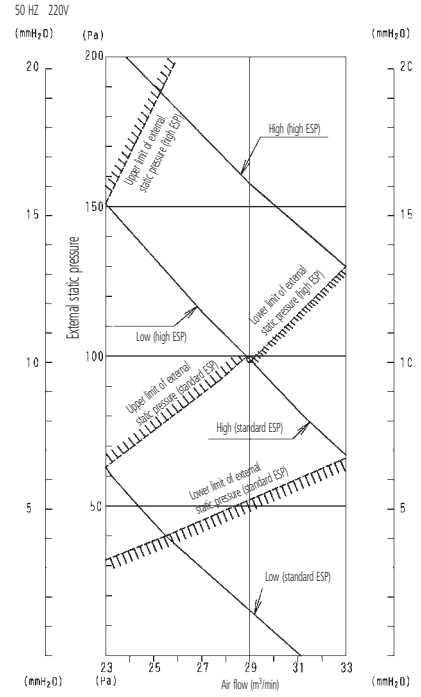
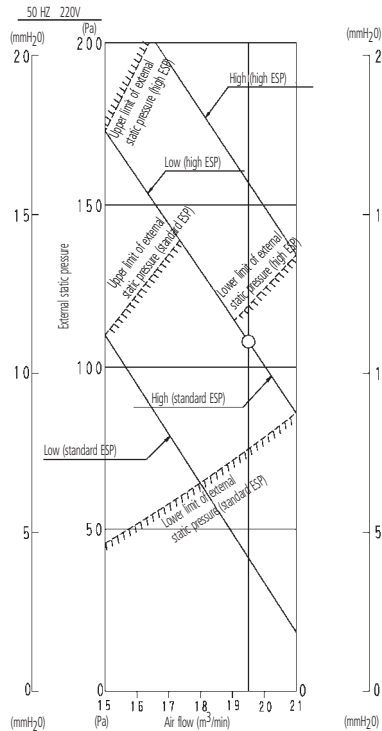
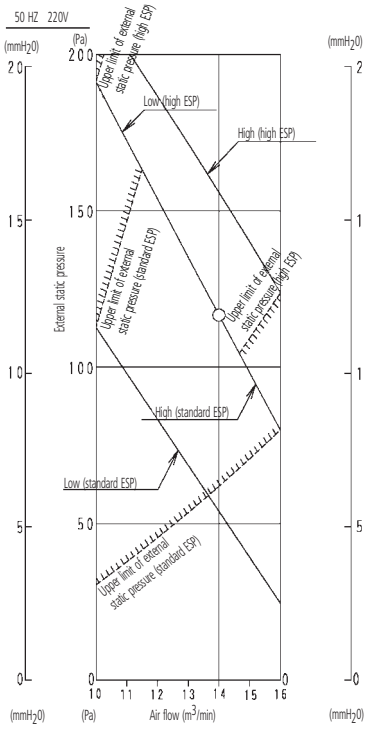
3D019610A

FXMQ80MVE

3D018375A

FXMQ100MVE

3D000067C



FXMQ125MVE

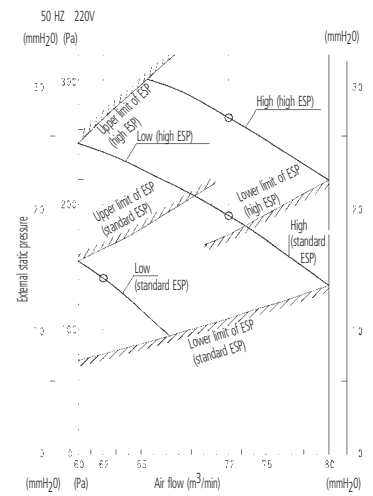
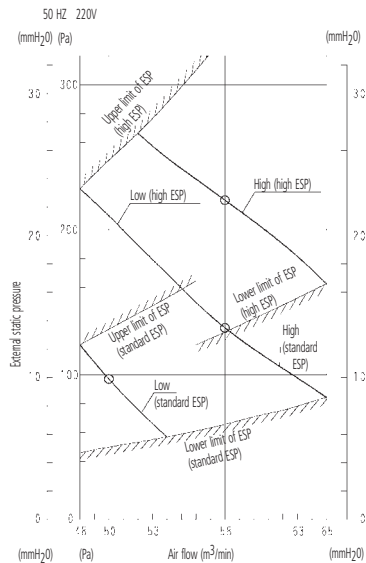
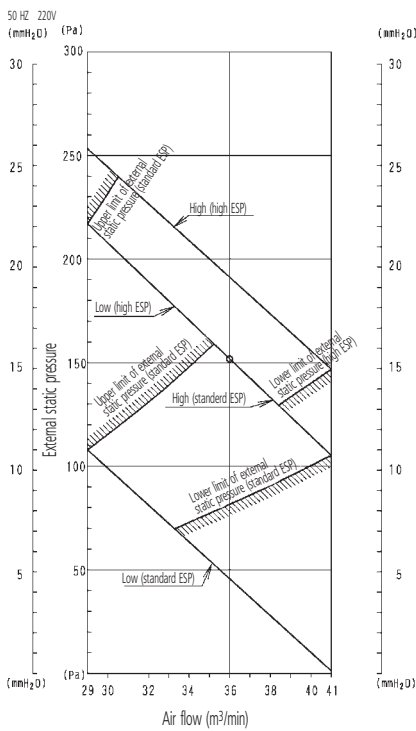
3D000167C

FXMQ200MVE

3D035172

FXMQ250MVE

3D035173



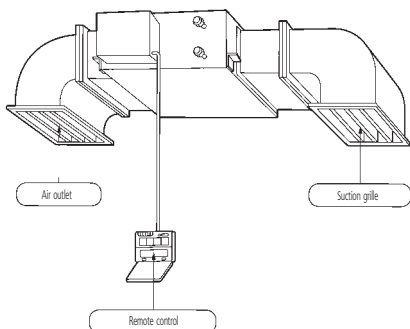
10

**NOTES**

- 1 The remote control 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 in the indoor unit electrical box.

# 11 Installation

## 11-1 Installation example



## 11-2 Service space

### 1. Select an installation site:

- Where the following conditions are fulfilled and that meets with your customer's approval.
- Where sufficient clearance for maintenance and service can be ensured.
- Where optimum air distribution can be ensured.

**FXMQ40-125MVE**

Model	A
FXMQ40MVE	750
FXMQ50MVE	
FXMQ63MVE	
FXMQ80MVE	
FXMQ100MVE	
FXMQ125MVE	1,100

**FXMQ200,250MVE**

**NOTE**

1 Above figures mean minimum values.

3P086156-2-4

# 11

- Where nothing blocks the air passage.
  - Where condensation 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.)
  - 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.
  - 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.

# 11 Installation

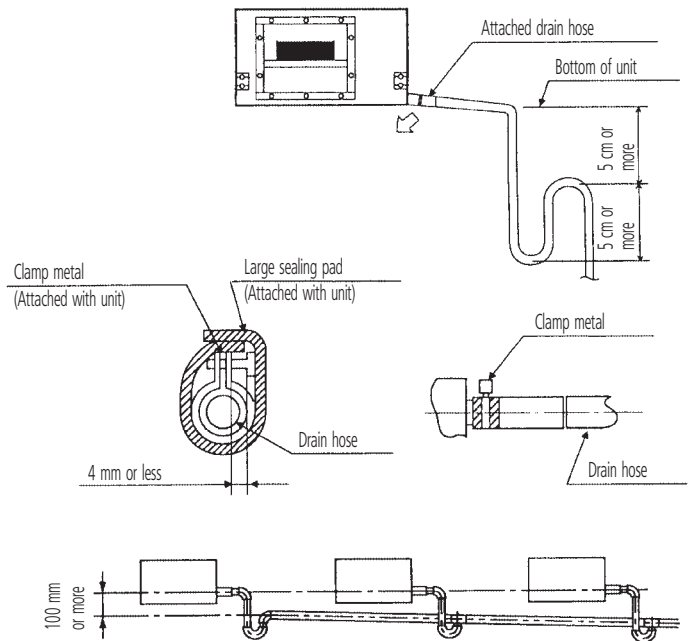
## 11-3 Drain piping

- 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

FXMQ40-125MVE

- Keep piping as short as possible and slope it downwards so that air does not remain trapped inside the pipe.
- Keep pipe size equal to or bigger than that of the connecting pipe (Vinyl pipe of 25 mm I.D. and 32 mm E.D.).
- 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 trap on the drain outlet. (See the figure)
- In order to prevent foreign matters from building up inside the piping, you should avoid curves as much as possible, and arrange so the trap can be cleaned.



**NOTE**

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

FXMQ200-250MVE

- 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 bigger than that of the connecting pipe.

### 2. After piping work is finished, check if drainage flows smoothly.

# 2

## VRV II Systems



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

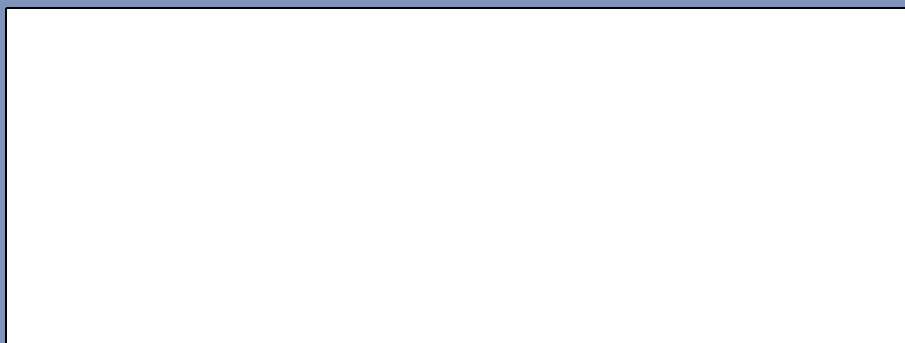


Daikin units comply with the European regulations that guarantee the safety of the product.

VRV products are not within the scope of the Eurovent certification programme.

Daikin equipment is designed for comfort applications. For use in other applications, please contact your local Daikin representative.

Specifications are subject to change without prior notice



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