



# technical data

Concealed Ceiling Unit (Large)  
FXMQ-MAVE

air conditioning systems

**VRV<sup>®</sup> III-S**

**VRV<sup>®</sup> III**

**VRV<sup>®</sup> II**

**VRV<sup>®</sup>-WII**

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# 1 Features

- Leaves maximum floor and wall space for furniture, decorations and fittings
- Complete range of models (5 ->31,5 kW)
- More than 150 Pa 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
- Drain-up height: 294 mm for class 40 to 125, 375mm for class 200, 250
- Built-in drain pump (accessory): housing the drain pump inside the unit has reduced the required installation space

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## 2 Specifications

2-1 TECHNICAL SPECIFICATIONS				FXMQ40MAVE	FXMQ50MAVE	FXMQ63MAVE	FXMQ80MAVE
Nominal Capacity	Cooling	kW		4.50	5.60	7.10	9.00
	Heating	kW		5.00	6.30	8.00	10.00
Power input (Nominal)	Cooling	kW		0.211	0.211	0.211	0.284
	Heating	kW		0.211	0.211	0.211	0.284
Casing	Material			Galvanised steel			
Dimensions	Unit	Height	mm	390	390	390	390
		Width	mm	720	720	720	720
		Depth	mm	690	690	690	690
Weight	Unit	kg		44	44	44	45
Heat Exchanger	Dimensions	Nr of Rows		3	3	3	3
		Fin Pitch	mm	2.00	2.00	2.00	2.00
		Face Area	m <sup>2</sup>	0.181	0.181	0.181	0.181
		Nr of Stages		16	16	16	16
Fan	Type			Sirocco fan			
	Quantity			1	1	1	1
Air Flow Rate	Cooling	High	m <sup>3</sup> /min	14.00	14.00	14.00	19.50
		Low	m <sup>3</sup> /min	11.50	11.50	11.50	16.00
Fan	External static pressure	High	Pa	157	157	157	157
		Standard	Pa	118	118	118	108
	Motor	Quantity		1	1	1	1
		Model		D11/2D3AB1VE	D11/2D3AB1VE	D11/2D3AB1VE	D11/2D3AA1VE
		Output (high)	W	100	100	100	160
Drive			Direct drive				
Refrigerant	Name			R-410A			
Cooling	Sound Pressure	High	dBA	39.0	39.0	39.0	42.0
		Low	dBA	35.0	35.0	35.0	38.0
Piping connections	Liquid (OD)	Type		Flare connection			
		Diameter	mm	6.4	6.4	9.5	9.5
	Gas	Type		Flare connection			
		Diameter	mm	12.7	12.7	15.9	15.9
	Drain	Diameter	mm	32	32	32	32
Heat Insulation			Glass fiber				
Refrigerant control			Electronic expansion valve				
Temperature control			Microprocessor thermostat for cooling and heating				
Safety devices			PC board fuse				
			Fan motor thermal protector				
Standard Accessories	Standard Accessories			Installation and operation manual			
				Drain hose			
				Sealing Pads			
				Clamps			
				Screws			
				Insulation for fitting			
				Clamp metal			
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.						
	The external static pressure is changeable : change the connectors inside the electrical box, this pressure means : High static pressure -standard						
	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.						
	Sound pressure levels are measured at 220V						

## 2 Specifications

2-1 TECHNICAL SPECIFICATIONS				FXMQ100MAVE	FXMQ125MAVE	FXMQ200MAVE	FXMQ250MAVE		
Nominal Capacity	Cooling	kW		11.20	14.00	22.40	28.00		
	Heating	kW		12.50	16.00	25.00	31.50		
Power input (Nominal)	Cooling	kW		0.411	0.619	1.294	1.465		
	Heating	kW		0.411	0.619	1.294	1.465		
Casing	Material			Galvanised steel					
Dimensions	Unit	Height	mm	390	390	470	470		
		Width	mm	1110	1110	1380	1380		
		Depth	mm	690	690	1100	1100		
Weight	Unit	kg		63	65	137	137		
Heat Exchanger	Dimensions	Nr of Rows		3	3	3	3		
		Fin Pitch	mm	2.00	2.00	2.00	2.00		
		Face Area	m <sup>2</sup>	0.319	0.319	0.68	0.68		
		Nr of Stages		16	16	26	26		
Fan	Type			Sirocco fan					
	Quantity			1	1	2	2		
Air Flow Rate	Cooling	High	m <sup>3</sup> /min	29.00	36.00	58.00	72.00		
		Low	m <sup>3</sup> /min	23.00	29.00	50.00	62.00		
Fan	External static pressure	High	Pa	157	191	221	270		
		Standard	Pa	98	152	132	147		
	Motor	Quantity		1	1	2	2		
		Model		2D11/2D3AG1VE	2D11/2D3AF1VE	D13/4G2DA1	D13/4G2DA1		
		Output (high)	W	270	430	380	380		
		Drive			Direct drive				
Refrigerant	Name			R-410A					
Cooling	Sound Pressure	High	dBA	43.0	45.0	48.0	48.0		
		Low	dBA	39.0	42.0	45.0	45.0		
Piping connections	Liquid (OD)	Type		Flare connection					
		Diameter	mm	9.5	9.5	9.5	9.5		
	Gas	Type		Flare connection	Flare connection	Braze connection	Braze connection		
		Diameter	mm	15.9	15.9	19.1	22.2		
	Drain	Diameter	mm	32	32	PS1B	PS1B		
Heat Insulation			Glass fiber						
Refrigerant control			Electronic expansion valve						
Temperature control			Microprocessor thermostat for cooling and heating						
Safety devices			PC board fuse						
			Fan motor thermal protector						
Standard Accessories	Standard Accessories			Installation and operation manual					
				Drain hose		Connection pipes			
				Sealing Pads					
				Clamps					
				Screws					
				Insulation for fitting					
				Clamp metal					
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.						
			The external static pressure is changeable : change the connectors inside the electrical box, this pressure means : High static pressure -standard						
			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.						
			Sound pressure levels are measured at 220V						

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## 2 Specifications

2-2 ELECTRICAL SPECIFICATIONS			FXMQ40MAVE	FXMQ50MAVE	FXMQ63MAVE	FXMQ80MAVE
Power Supply	Name		VE			
	Phase		1	1	1	1
	Frequency	Hz	50	50	50	50
	Voltage	V	220-240			
Current	Minimum circuit amps (MCA)	A	1.30	1.30	1.30	1.50
	Maximum fuse amps (MFA)	A	15.00	15.00	15.00	15.00
	Full load amps (FLA)	A	1.00	1.00	1.00	1.20
Voltage range	Minimum	V	-10%			
	Maximum	V	+10%			
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 <a href="http://www.daikineurope.com/extranet">http://www.daikineurope.com/extranet</a> , 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			

2-2 ELECTRICAL SPECIFICATIONS			FXMQ100MAVE	FXMQ125MAVE	FXMQ200MAVE	FXMQ250MAVE
Power Supply	Name		VE			
	Phase		1	1	1	1
	Frequency	Hz	50	50	50	50
	Voltage	V	220-240			
Current	Minimum circuit amps (MCA)	A	2.50	3.80	8.10	9.00
	Maximum fuse amps (MFA)	A	15.00	15.00	15.00	15.00
	Full load amps (FLA)	A	2.00	3.00	6.50	7.20
Voltage range	Minimum	V	-10%			
	Maximum	V	+10%			
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 <a href="http://www.daikineurope.com/extranet">http://www.daikineurope.com/extranet</a> , 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			

### 3 Safety device settings

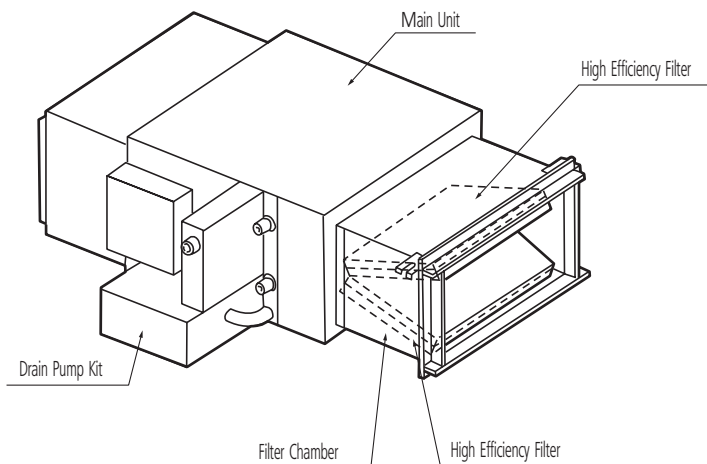
	FXMQ40MA	FXMQ50MA	FXMQ63MA	FXMQ80MA	FXMQ100MA	FXMQ125MA	FXMQ200MA	FXMQ250MA
PC BOARD FUSE	250V 10A							
FAN MOTOR THERMAL PROTECTOR	°C		OFF: 135 <sup>±8</sup> , ON: 87 <sup>±15</sup>					
3D034597C								

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# 4 Options

	FXMQ40MA	FXMQ50MA	FXMQ63MA	FXMQ80MA	FXMQ100MA	FXMQ125MA	FXMQ200MA	FXMQ250MA
DRAIN PUMP KIT	KDU30L125VE						KDU30L250VE	
HIGH EFFICIENCY FILTER 65%	KAFP372A80			KAFP372A160		KAFJ372L280		
HIGH EFFICIENCY FILTER 90%	KAFP373A80			KAFP373A160		KAFJ373L280		
FILTER CHAMBER	KDDFP37A80			KDDFP37A160		KDJ3705L280		
REPLACEMENT LONG LIFE FILTER	KAFP371A80			KAFP371A160		KAFJ371L280		

3D040334B





## 5 Control systems

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### Individual control systems

		FXMQ40MA	FXMQ50MA	FXMQ63MA	FXMQ80MA	FXMQ100MA	FXMQ125MA	FXMQ200MA	FXMQ250MA
WIRED REMOTE CONTROL		BRC1D52							
INFRARED REMOTE CONTROL	Heat pump	BRC4C62							
	Cooling only	BRC4C64							
SIMPLIFIED REMOTE CONTROL		BRC2A51							
REMOTE CONTROL FOR HOTEL USE		BRC3A61							

### Centralised control systems

		FXMQ40MA	FXMQ50MA	FXMQ63MA	FXMQ80MA	FXMQ100MA	FXMQ125MA	FXMQ200MA	FXMQ250MA
CENTRALISED REMOTE CONTROL		DCS302C51							
UNIFIED ON/OFF CONTROL		DCS301B51							
SCHEDULE TIMER		DST301B51							

### Others

		FXMQ40MA	FXMQ50MA	FXMQ63MA	FXMQ80MA	FXMQ100MA	FXMQ125MA	FXMQ200MA	FXMQ250MA
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)		KEK26-1							
EXTERNAL CONTROL ADAPTER FOR OUTDOOR UNITS (INSTALLATION ON INDOOR UNIT)		DTA104A61							

3D034600C

# 6 Capacity tables

## 6 - 1 Cooling capacity tables

FXMQ-MA																	
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	SHC	
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			

## 6 Capacity tables

### 6 - 1 Cooling capacity tables

#### FXMQ-MA

TC: Total capacitykW – SHC: Sensible capacitykW

Unit size	Nominal capacity	Outdoor air temp. °CDB	Indoor air temperature													
			14.OWB		16.OWB		18.OWB		19.OWB		20.OWB		22.OWB		24.OWB	
			20.OWB		23.OWB		26.OWB		27.OWB		28.OWB		30.OWB		32.OWB	
			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
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
		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
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

## 6 Capacity tables

### 6 - 2 Heating capacity tables

FXMQ-MA									
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		

## 6 Capacity tables

### 6 - 2 Heating capacity tables

#### FXMQ-MA

Unit Size	Nominal capacity	Outdoor air temperature		Indoor air temperature °CDB					
		°CDB	°CWB	16.0	18.0	20.0	21.0	22.0	24.0
				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	10.1
		-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		

# 7 Dimensional drawing & centre of gravity

## 7 - 1 Dimensional drawing

**FXMQ40,50MA**

22 -  $\varnothing$  4.7 hole (All around)  
 740  
 670  
 410  
 5x65=325  
 65  
 720  
 7x65=455  
 26 -  $\varnothing$  4.7 hole (All around)  
 750 or more (Service space)  
 13  
 320  
 102  
 60  
 300  
 700 or more (Service space)  
 Inspection hole 450 or more  
 10  
 9  
 10 -  $\varnothing$  8 hole (All around)  
 2x150=300  
 360  
 390  
 200  
 310  
 280  
 150  
 130  
 A View  
 5  
 7  
 4x65=260  
 390  
 690  
 11.5  
 2.6  
 7.9  
 1.95  
 4x65=260  
 Discharge side  
 Suction side (Note. 2)  
 362.5  
 350  
 320  
 2x150=300  
 57  
 3x150=450  
 55.5  
 58.5  
 14 -  $\varnothing$  8 hole (All around)

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**

**FXMQ63,80MA**

22 -  $\varnothing$  4.7 hole (All around)  
 740  
 670  
 410  
 5x65=325  
 65  
 720  
 7x65=455  
 26 -  $\varnothing$  4.7 hole (All around)  
 750 or more (Service space)  
 13  
 320  
 102  
 60  
 300  
 700 or more (Service space)  
 Inspection hole 450 or more  
 10  
 9  
 10 -  $\varnothing$  8 hole (All around)  
 2x150=300  
 360  
 390  
 200  
 310  
 280  
 150  
 130  
 A View  
 5  
 7  
 4x65=260  
 390  
 690  
 11.5  
 2.6  
 7.9  
 1.95  
 4x65=260  
 Discharge side  
 Suction side (Note. 2)  
 362.5  
 350  
 320  
 2x150=300  
 57  
 3x150=450  
 55.5  
 58.5  
 14 -  $\varnothing$  8 hole (All around)

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**

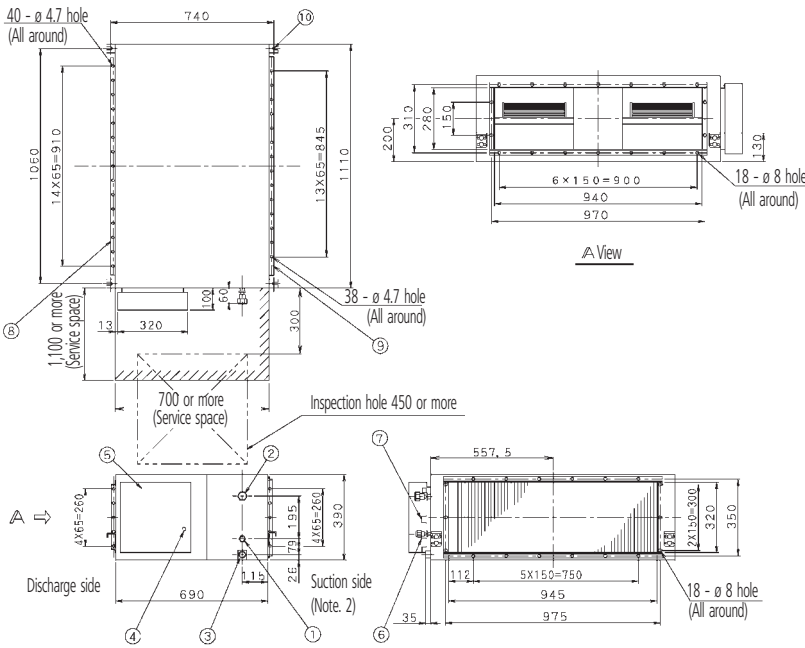
- 1 Location of unit's name plate: switch box surface.
- 2 Mount the air filter at the suction side. (Select its colorimethod (gravity method) 50% or more).
- 3 Be sure to install a drain trap, as the drain outlet of the air-conditioner becomes negative pressure.
- 4 Be sure to install a drain trap for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

**3D038849**

# 7 Dimensional drawing & centre of gravity

## 7 - 1 Dimensional drawing

FXMQ100,125MA



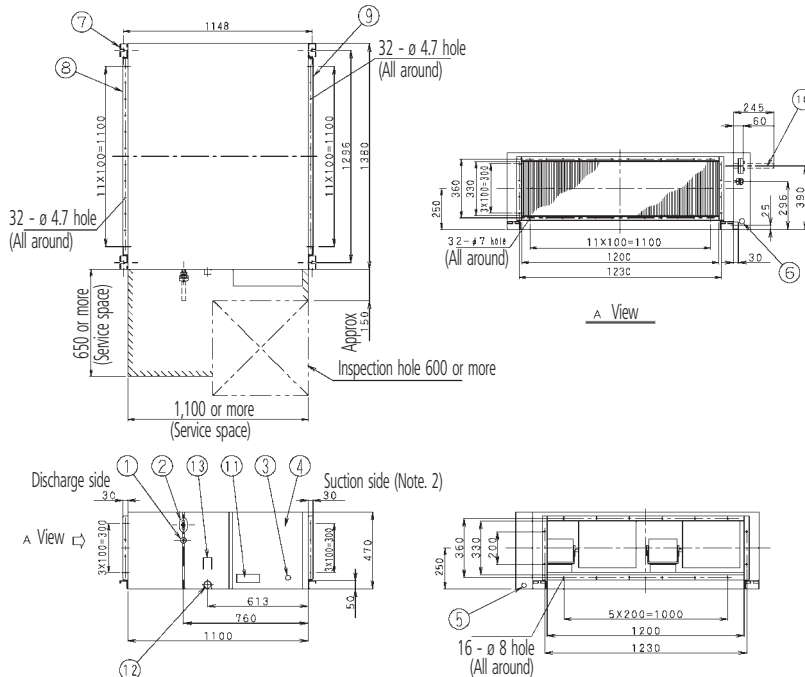
Nr	Part name	Description
1	Liquid pipe connection	ø 9.5 flare connection
2	Gas pipe connection	ø 15.9 flare connection
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Ground terminal	M4
5	Switch box	
6	Interunit wiring connection	
7	Power supply connection	
8	Air discharge flange	
9	Air suction flange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

FXMQ200,250MA



Piping size (field supply)

Model	Gas	Liquid
FXMQ200MA	ø 19.1 attached piping	ø 9.5
FXMQ250MA	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	PS18 Internal thread VP25 (O.D. ø33.349, I.D. ø30.391)
13	Water supply port	

**NOTES**

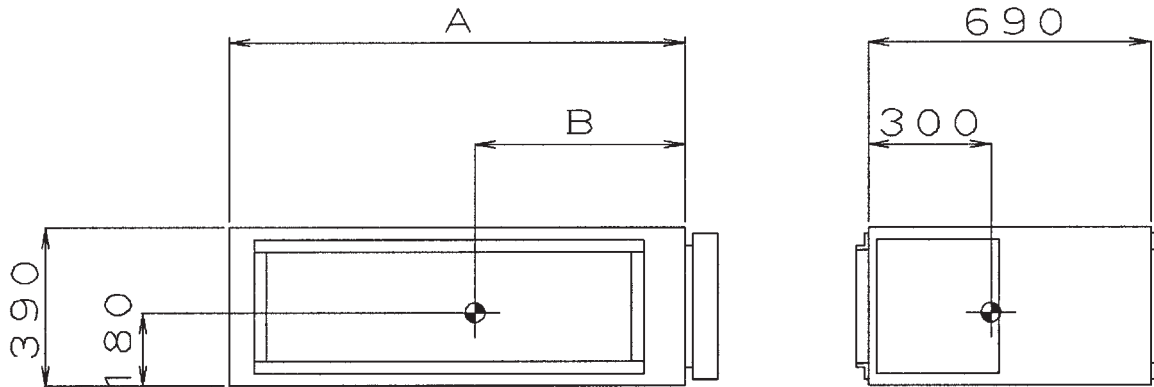
- 1 Location of unit's name plate: switch box surface.
- 2 Mount the air filter at the suction side. (Select its color/method (gravity method) 50% or more).

3D038851

## 7 Dimensional drawing & centre of gravity

### 7 - 2 Centre of gravity

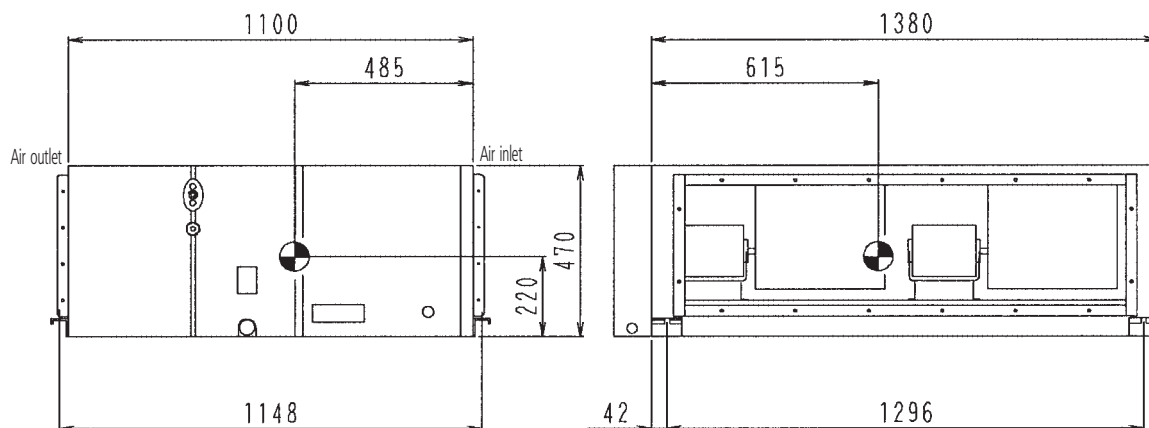
FXMQ40,50,63,80,100,125MA



Model	A	B
FXMQ40,50,63,80MA	720	290
FXMQ100,125MA	1,110	510

4D040333

FXMQ200,250MA



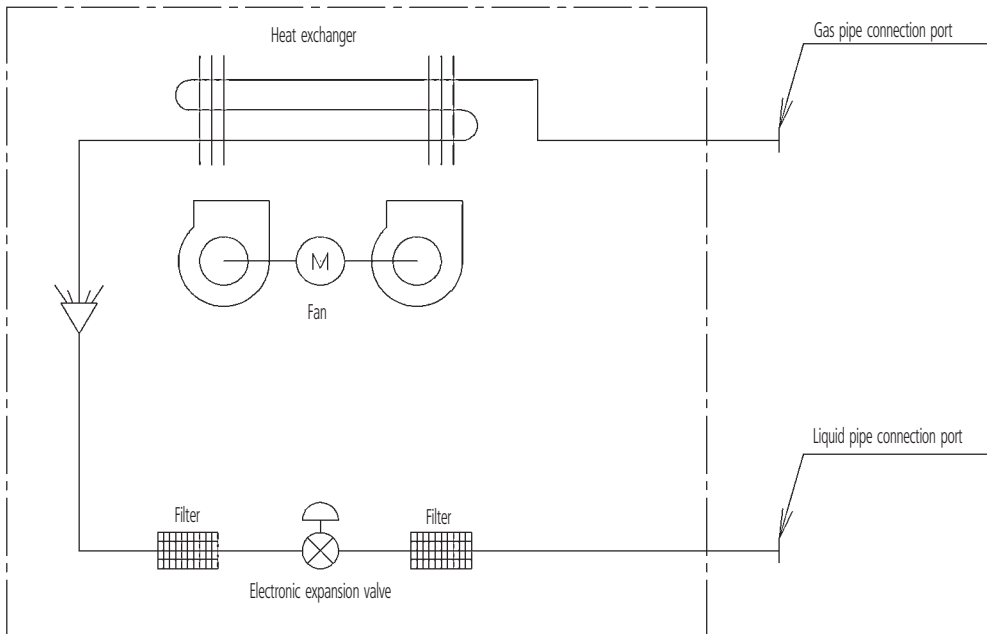
4D035171



# 8 Piping diagram

8

FXMQ-MA



Piping connection diameters

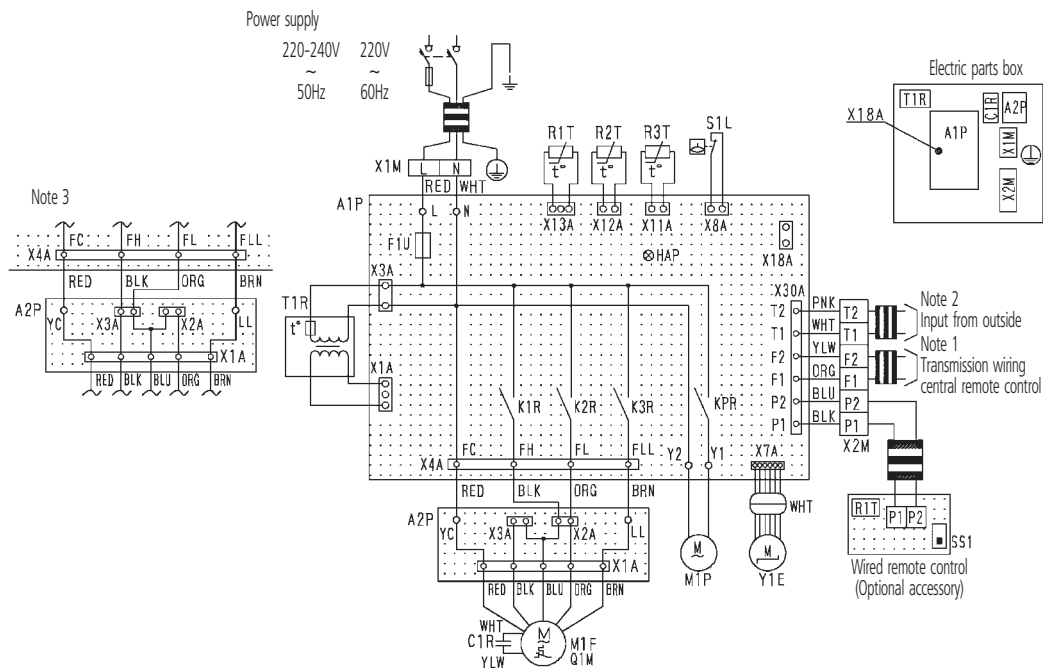
Model	Gas	Liquid
FXMQ40,50MA	ø12.7	ø6.4
FXMQ63,80,100,125MA	ø15.9	ø9.5
FXMQ200MA	ø19.1	ø9.5
FXMQ250MA	ø22.2	ø9.5

4D034245A

# 9 Wiring diagram

## 9 - 1 Wiring diagram

FXMQ40,50,63,80,100,125MA



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

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

### NOTES

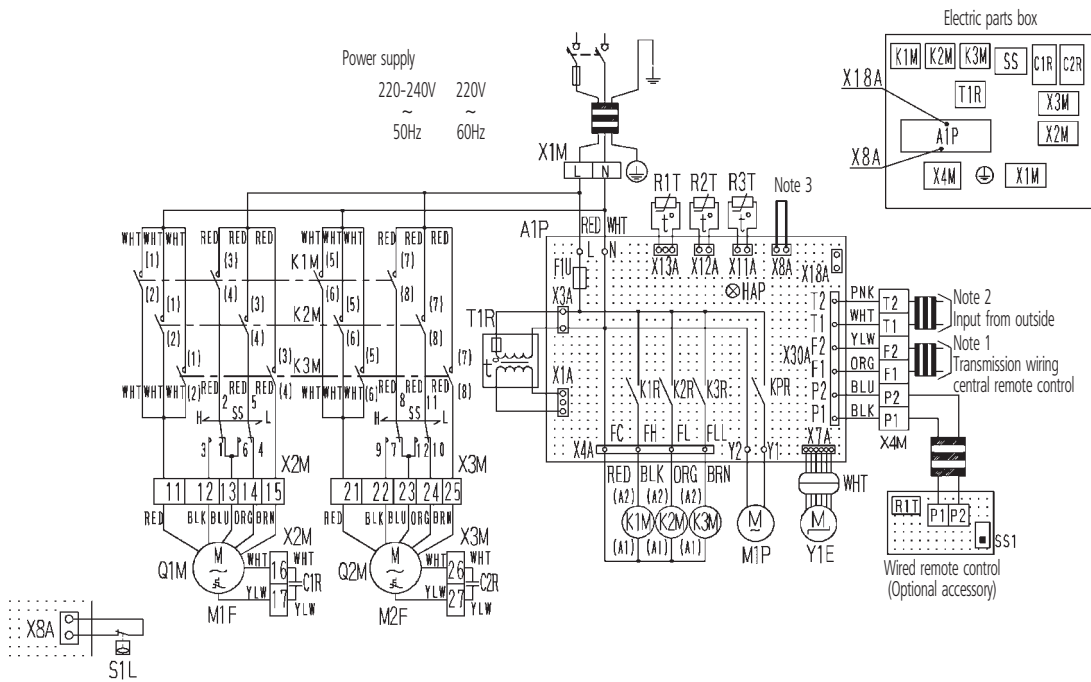
- In case using central remote control, connect it to the unit in accordance with the attached instruction manual.
- When connecting the input wires from outside, forced off or on/off control operation can be selected by remote control. In details, refer to the installation manual attached the unit.
- In case of high E.S.P. operation, change the wiring connection of X2A as shown upper figure.
- Use copper conductors only.

3D039620B

# 9 Wiring diagram

## 9 - 1 Wiring diagram

FXMQ200,250MA



Indoor unit			Optional parts
A1P	Printed circuit board	Q1M • Q2M	M1P Motor (drain pump)
C1R • C2R	Capacitor (M1F • 2F)	R1T	Thermistor (air)
F1U	Fuse (⊕, 5A, 250V)	R2T • R3T	Thermistor (coil)
HAP	Light emitting diode (service monitor-green)	SS	Selector switch (static pressure)
K1M	Magnetic contactor (M1F • 2F)	T1R	Transformer (220-240V/22V)
K2M	Magnetic contactor (M1F • 2F)	X1M	Terminal block (power)
K3M	Magnetic contactor (M1F • 2F)	X2M-X3M	Terminal block
K1R-K3R	Magnetic relay (M1F • 2F)	X4M	Terminal block (control)
KPR	Magnetic relay (M1P)	Y1E	Electronic expansion valve
M1F • M2F	Motor (indoor fan)		Connector for optional parts
			X8A Connector (float switch)
			X18A Connector (wiring adapter for electrical appendices)

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

### NOTES

- In case using central 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 details, refer to the installation manual attached the unit.
- In case installing the drain pump, remove the short circuit connector of X8A and execute the additional wiring for float switch and drain pump.
- Use copper conductors only.
- In case high E.S.P. operation, change the switch(ss) for "H".

3D039621B

## 10 Sound data

### 10 - 1 Sound level data

#### FXMQ-MA

Model	Sound pressure level - 220V		Measuring location	Sound power level
	H	L		
FXMQ40MA	39	35		*
FXMQ50MA	39	35		*
FXMQ63MA	42	38		*
FXMQ80MA	43	39		*
FXMQ100MA	43	39		*
FXMQ125MA	45	42		*
FXMQ200MA	48	45		*
FXMQ250MA	48	45		*

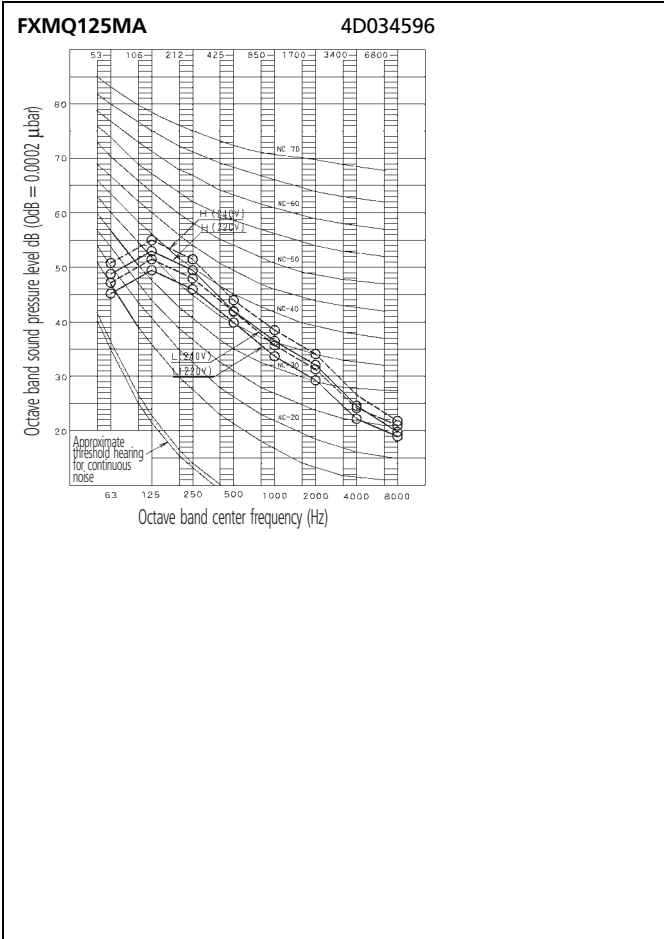
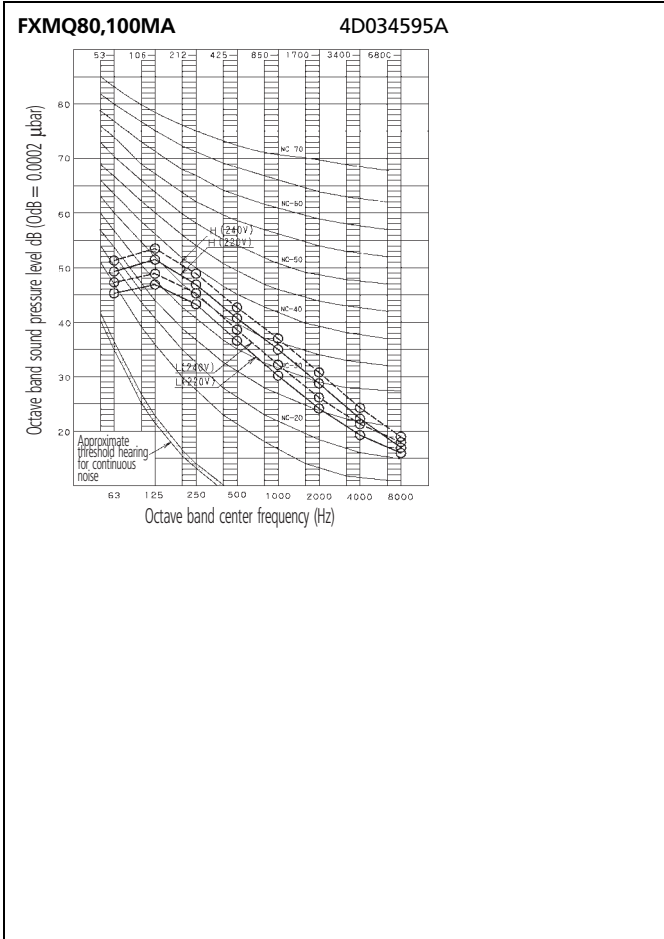
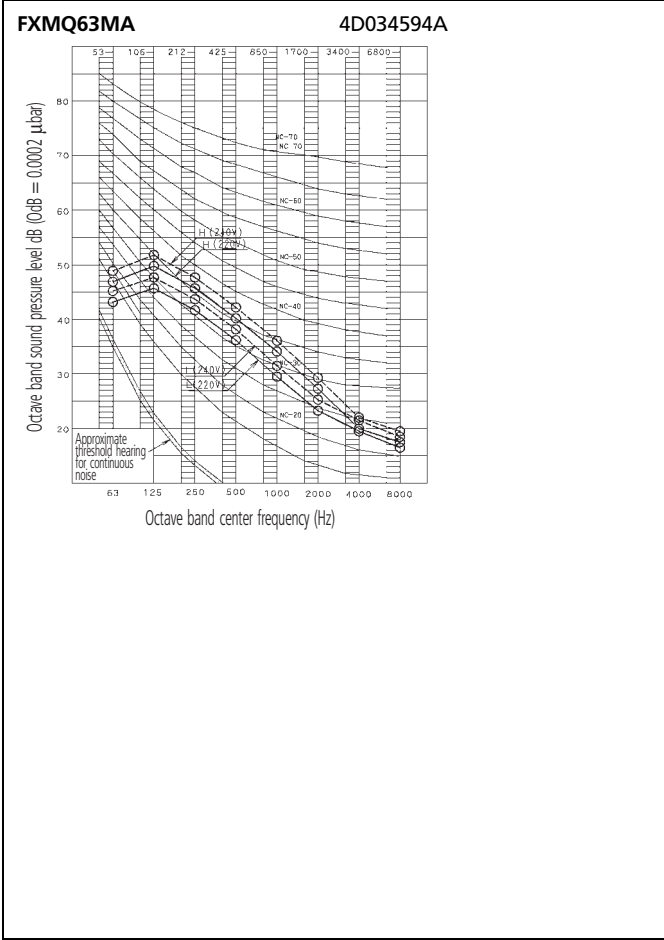
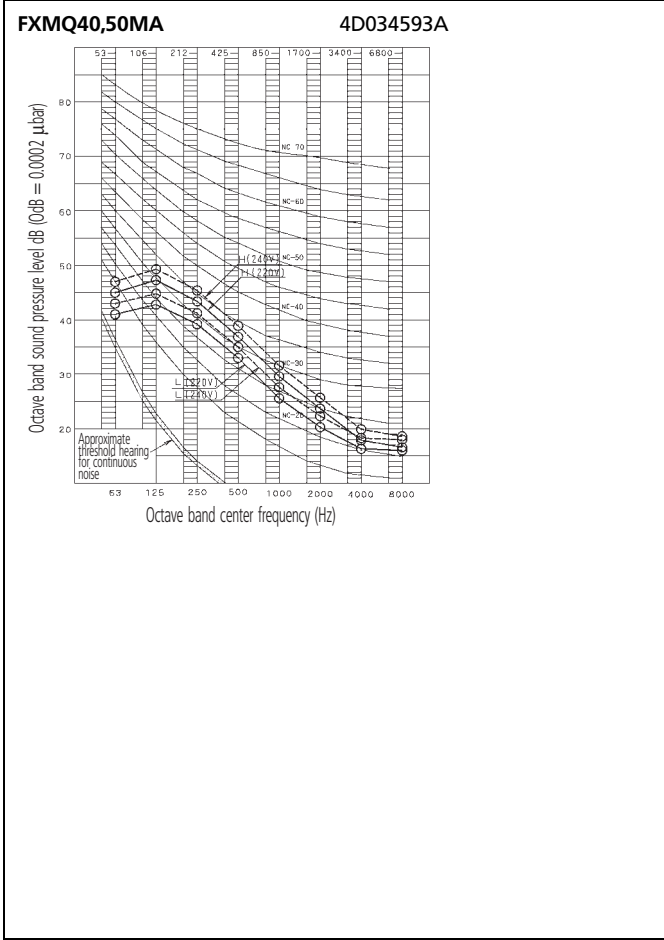
#### NOTES

- 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

# 10 Sound data

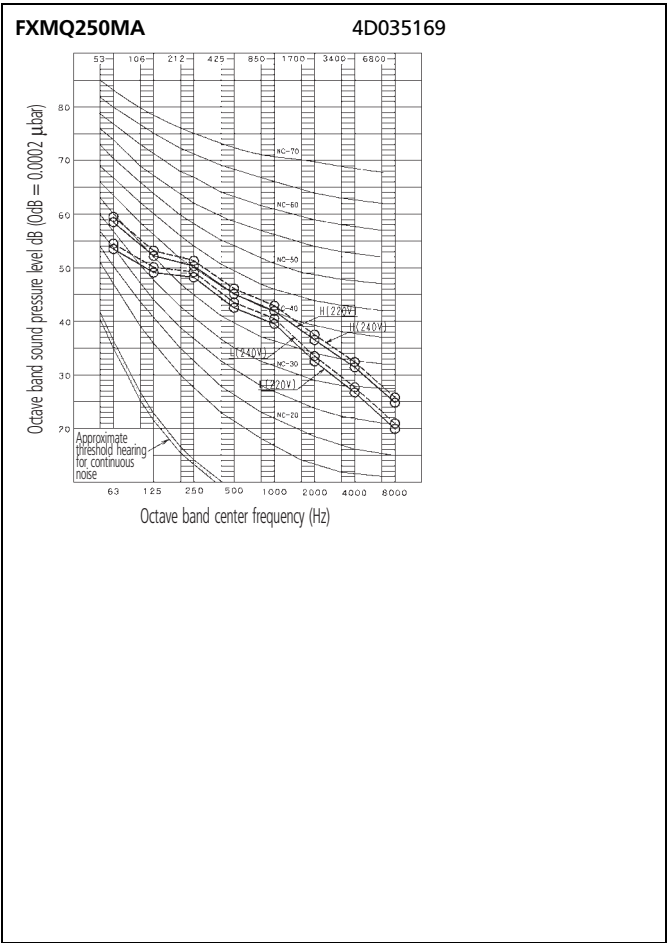
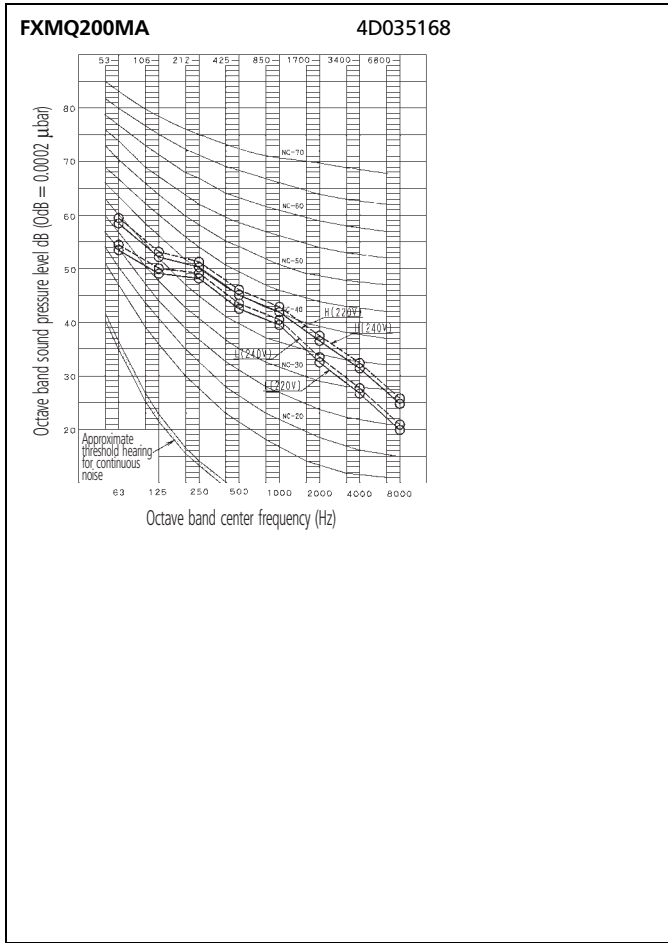
## 10 - 2 Sound pressure spectrum

10

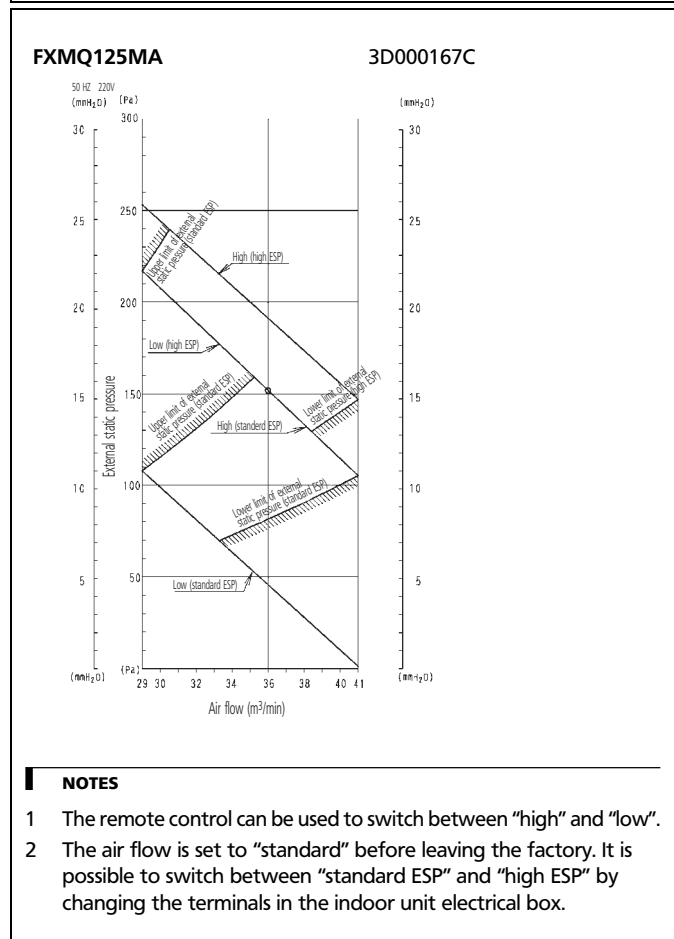
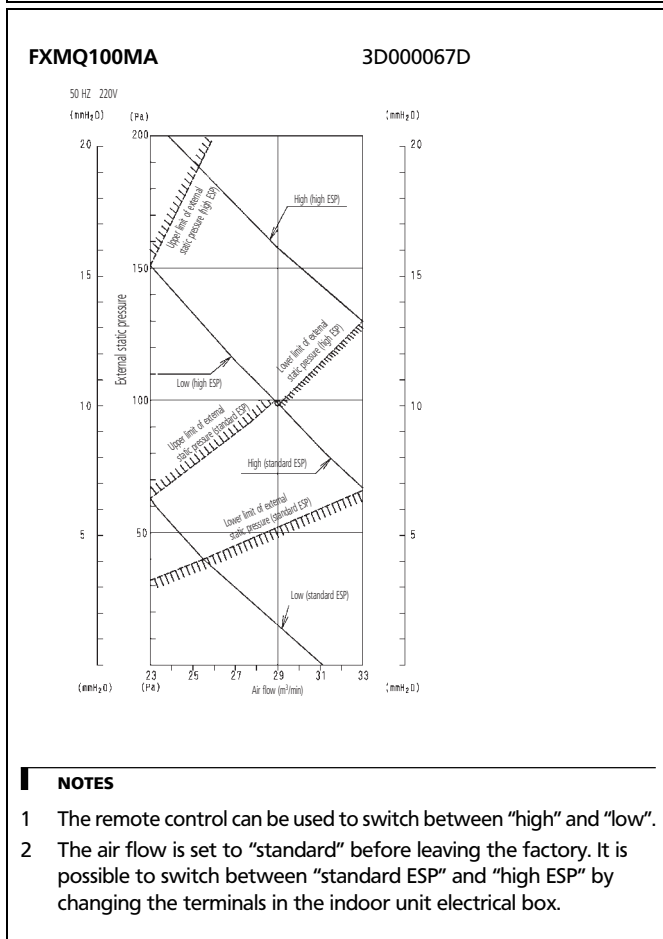
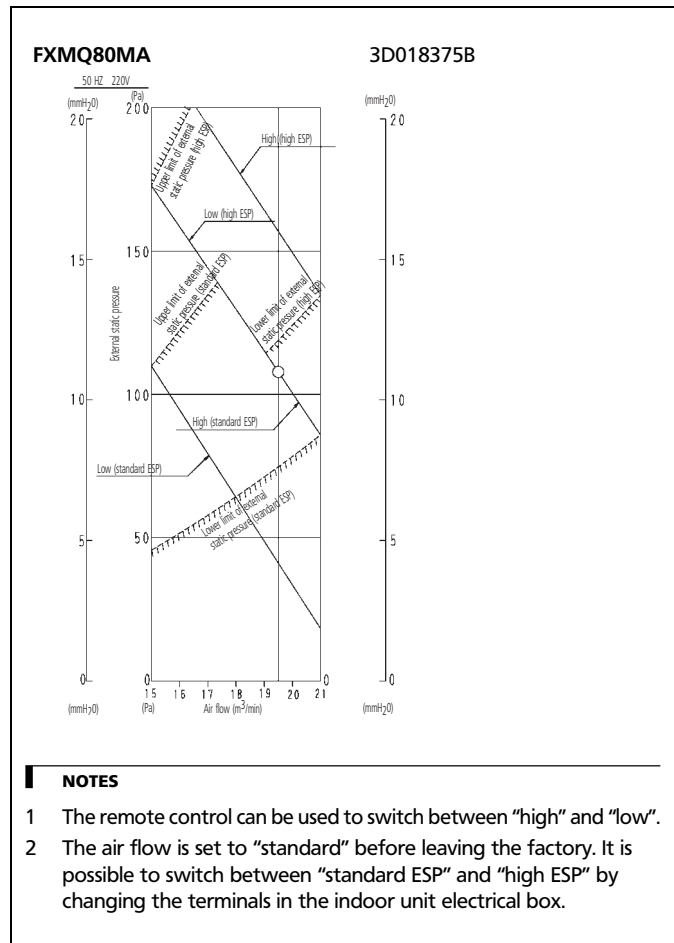
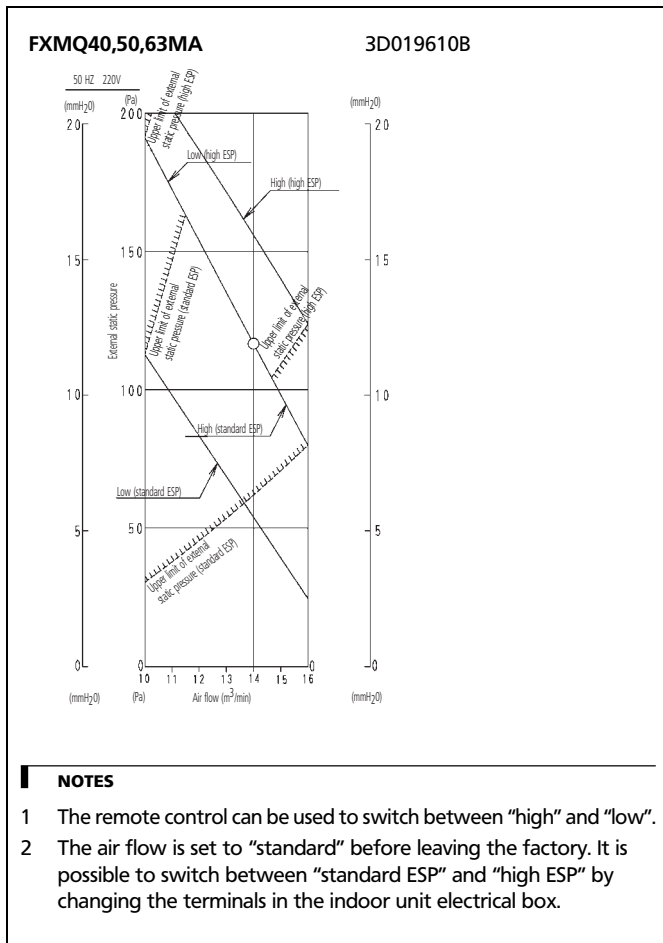


# 10 Sound data

## 10 - 2 Sound pressure spectrum



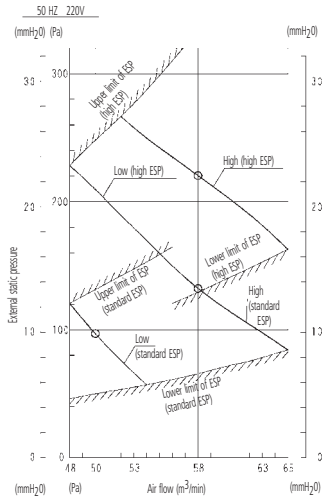
# 11 Fan characteristics



# 11 Fan characteristics

FXMQ200MA

3D035172

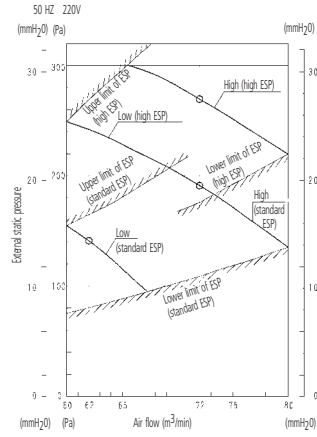


**NOTES**

- 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.

FXMQ250MA

3D035173



**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.



# 12 Installation

## 12 - 1 Drainage instructions

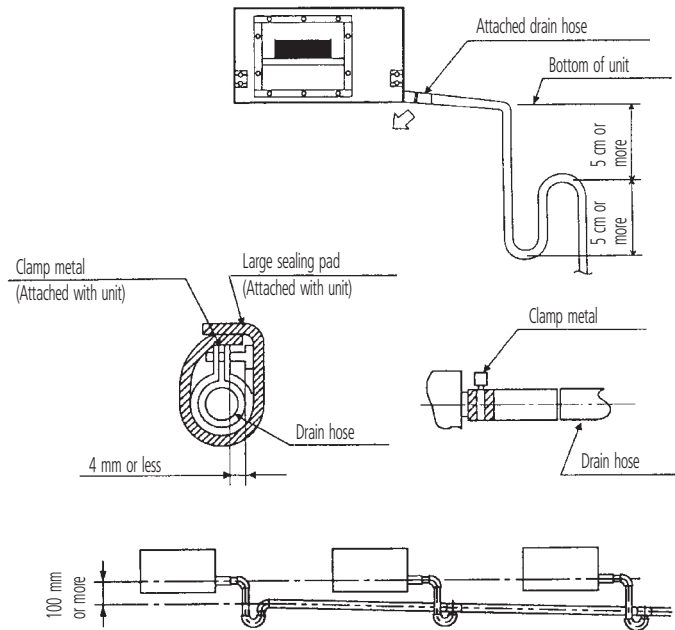
12

- 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

FXMQ40-125MA

- 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.)

FXMQ200-250MA

- A drain pipe need not be installed.
- The diameter of the piping is the same as that of the connecting pipe (P51B), and should be kept equal to or bigger than that of the connecting pipe.

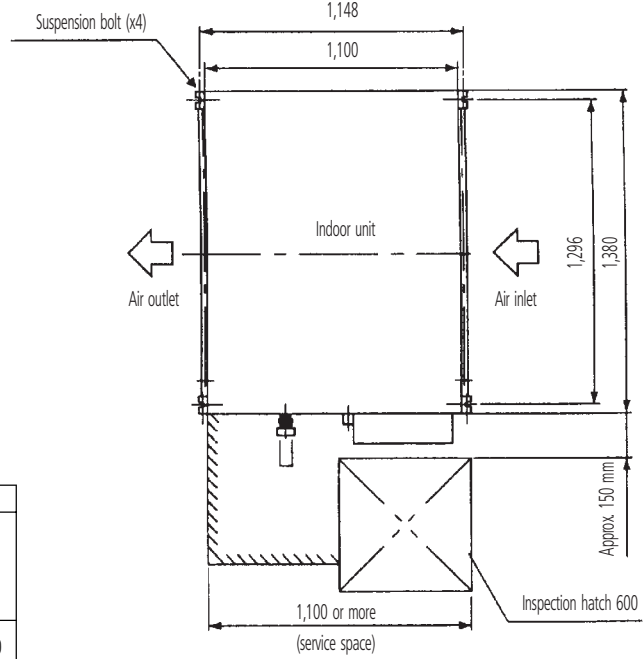
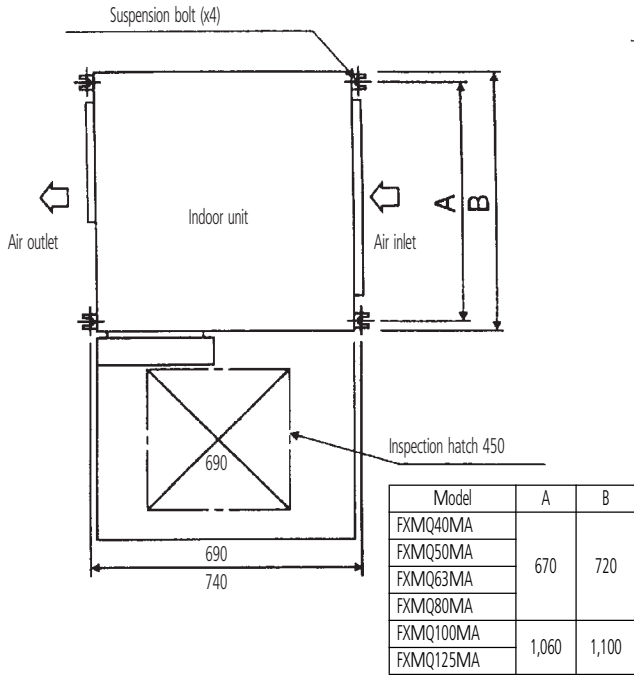
### 2. After piping work is finished, check if drainage flows smoothly.

# 12 Installation

## 12 - 2 Suspension bolt pitch position

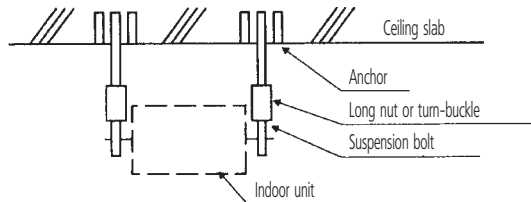
FXMQ40,50,63,80,100,125MA

FXMQ200,250MA



### 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.



### NOTE

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

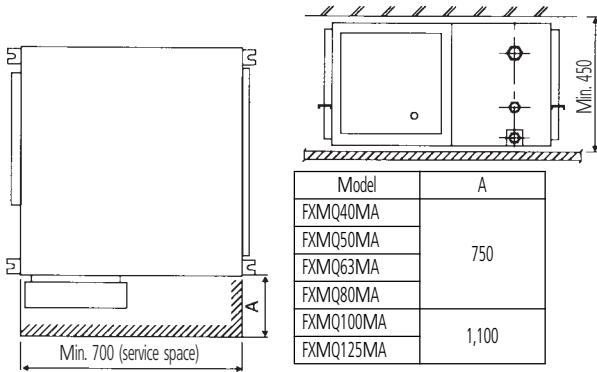
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# 12 Installation

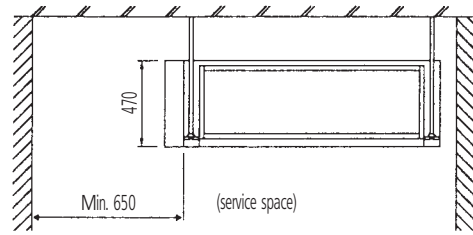
## 12 - 3 Service space

12

FXMQ40,50,63,80,100,125MA



FXMQ200,250MA



**NOTE**

- 1 Above figures mean minimum values.

3P086156-2-4

# 2

**VRV III-S**  
**VRV III**  
**VRV II**  
**VRV-WII**

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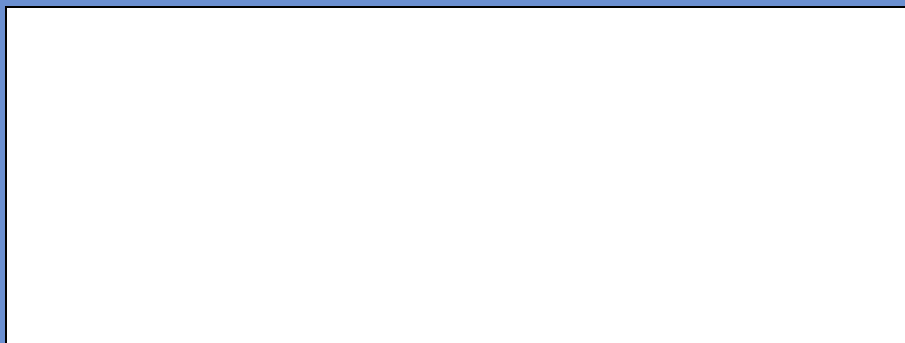
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