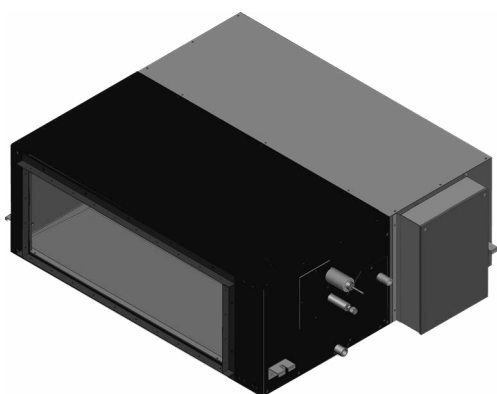


Engineering Data

FXMQ-NVE6

50 Hz

R-410A



FXMQ-NVE6

Ceiling Mounted Duct Type

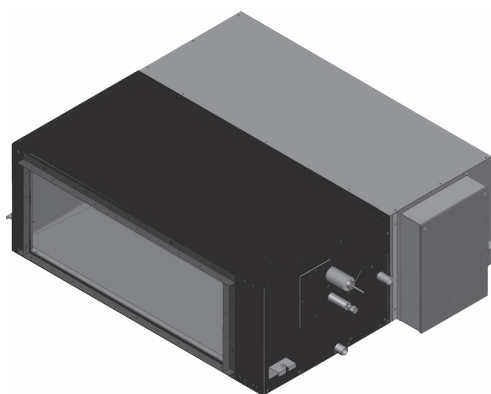
50 Hz

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1. Lineup

Capacity range	19.3 kW	22.4 kW	28.0 kW
	6.8 HP	8 HP	10 HP
Capacity index	170	200	250
FXMQ	170NVE6	200NVE6	250NVE6

VE6 : 1 phase, 230 V, 50 Hz (for India)



2. Specifications

Model			FXMQ170NVE6	FXMQ200NVE6
Power supply			1 phase, 230 V, 50 Hz	1 phase, 230 V, 50 Hz
★1 ★3 Cooling capacity	kcal/h		16,600	19,300
	Btu/h		65,900	76,400
	kW		19.3	22.4
★2 ★3 Heating capacity	kcal/h		18,100	21,500
	Btu/h		71,700	85,300
	kW		21.0	25.0
Power input	Cooling	kW	0.900	1.100
	Heating	kW	0.900	1.100
Casing / Colour			Galvanized steel plate	Galvanized steel plate
Dimensions: (H×W×D)		mm	440×1,190×1,090	440×1,190×1,090
Fan	Type		Sirocco fan	Sirocco fan
	Motor output × Number of units	W	375×1	750×1
	Airflow rate (H/L)	m³/min	58/50	68/58
		l/s	967/833	1,133/967
		cfm	2,047/1,765	2,400/2,047
	External static pressure	Pa	100-140 ★4	100-200 ★4
Drive			Direct drive	Direct drive
Temperature control			Microprocessor thermostat for cooling and heating	Microprocessor thermostat for cooling and heating
Air filter			Option accessories ★5	Option accessories ★5
Piping connections	Liquid pipes	mm	φ9.5 (Flare connection)	φ9.5 (Flare connection)
	Gas pipes	mm	φ19.1 (Brazing connection)	φ19.1 (Brazing connection)
	Drain pipe	mm	Steel pipe, φ31.5	Steel pipe, φ31.5
Mass		kg	110	110
★6 Sound pressure level (H/L)		dB(A)	45/42	47/45
Safety devices			Fuse, Over/Under voltage protector, Thermal protector for fan motor	Fuse, Over/Under voltage protector, Thermal protector for fan motor
Refrigerant control			Electronic expansion valve	Electronic expansion valve
Standard accessories			Operation manual, Installation manual, Sealing pads, Connection pipes, Screws, Clamps, Pre Filter ★7	Operation manual, Installation manual, Sealing pads, Connection pipes, Screws, Clamps, Pre Filter ★7
Drawing No.	Specification		C: 4D107673A	C: 4D107673A
	Sound level		C: 4D108436	C: 4D108435

Notes:

- ★1. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Standard external static pressure / Equivalent piping length: 7.5 m, level difference: 0 m.
- ★2. Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Standard external static pressure / Equivalent piping length: 7.5 m, level difference: 0 m.
- ★3. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★4. External static pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure-Standard".
- ★5. Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.
- ★6. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. These values are normally somewhat higher during actual operation as a result of ambient conditions.
- ★7. EPS Value is not included Pre Filter static Pressure Drop.

Conversion formulae
kcal/h=kW×860
Btu/h=kW×3412
cfm=m³/min×35.3
l/s=m³/min×1000/60

Model			FXMQ250NVE6
Power supply			1 phase, 230 V, 50 Hz
★1 ★3 Cooling capacity		kcal/h	24,100
		Btu/h	95,500
		kW	28.0
★2 ★3 Heating capacity		kcal/h	27,100
		Btu/h	107,000
		kW	31.5
Power input	Cooling	kW	1.650
	Heating	kW	1.650
Casing / Colour			Galvanized steel plate
Dimensions: (H×W×D)		mm	440×1,490×1,090
Fan	Type		Sirocco fan
	Motor output × Number of units	W	450×2
	Airflow rate (H/L)	m³/min	80/73
		l/s	1,333/1,217
		cfm	2,824/2,577
	External static pressure	Pa	190-270 ★4
	Drive		Direct drive
Temperature control			Microprocessor thermostat for cooling and heating
Air filter			Option accessories ★5
Piping connections	Liquid pipes	mm	φ9.5 (Flare connection)
	Gas pipes	mm	φ22.2 (Brazing connection)
	Drain pipe	mm	Steel pipe, φ31.5
Mass		kg	130
★6 Sound pressure level (H/L)		dB(A)	49/47
Safety devices			Fuse, Over/Under voltage protector, Thermal protector for fan motor
Refrigerant control			Electronic expansion valve
Standard accessories			Operation manual, Installation manual, Sealing pads, Connection pipes, Screws, Clamps, Pre Filter ★7
Drawing No.	Specification		C: 4D107673A
	Sound level		C: 4D107689

Notes:

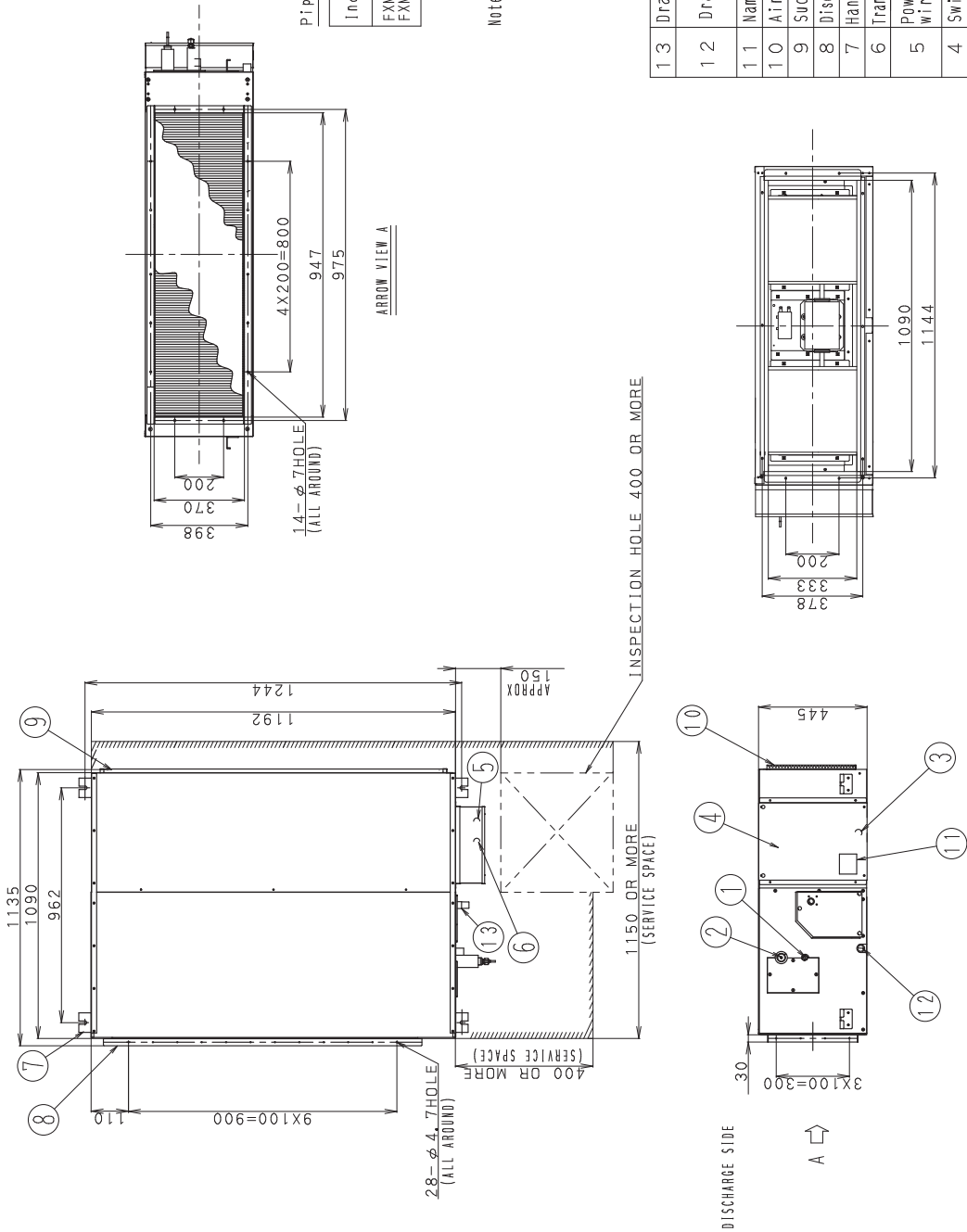
- ★1. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Standard external static pressure / Equivalent piping length: 7.5 m, level difference: 0 m.
- ★2. Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Standard external static pressure / Equivalent piping length: 7.5 m, level difference: 0 m.
- ★3. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★4. External static pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure-Standard".
- ★5. Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.
- ★6. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. These values are normally somewhat higher during actual operation as a result of ambient conditions.
- ★7. EPS Value is not included Pre Filter static Pressure Drop.

Conversion formulae
kcal/h=kW×860
Btu/h=kW×3412
cfm=m³/min×35.3
l/s=m³/min×1000/60

3. Dimensions

FXMQ170NVE6 / FXMQ200NVE6

Unit: mm



Piping size (Field supply)

Indoor unit	Gas side	Liquid side
FXMQ200NVE6	φ19, 1	φ9, 5
FXMQ170NVE6	Attached Piping	

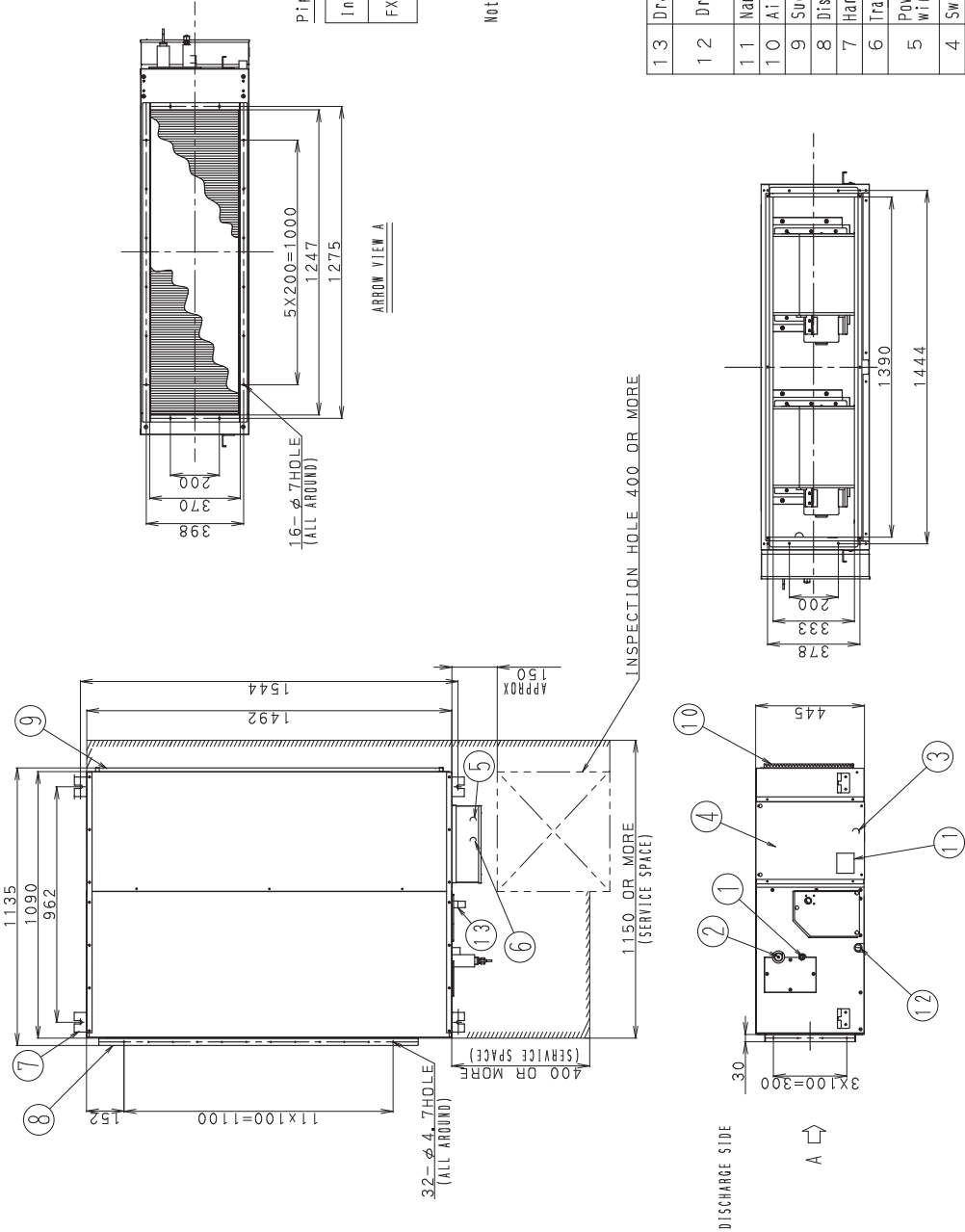
Notes) 1. Location of unit's Name Plates:
Switch box surface
2. Mount the air filter at the suction side,
(Select its color/method (gravity method)
(50% or more,

Number	Name	Description
1 3	Drain Pump(Optional)	
1 2	Drain piping connection	
1 1	Name plate	
1 0	Air Filter	
9	Suction flange	
8	Discharge companion flange	
7	Hanger	M10
6	Transmission wiring connection	
5	Power supply wiring connection	
4	Switch box	
3	Ground terminal	M5(Inside switch box)
2	Gas pipe connection	Attendant piping connection
1	Liquid pipe connection	Flare connection

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FXMQ250NVE6

Unit: mm



Piping size (field supply)

Indoor unit	Gas side	Liquid side
FXMQ250NVE6	ϕ 22.2 Attached Piping	ϕ 9.5

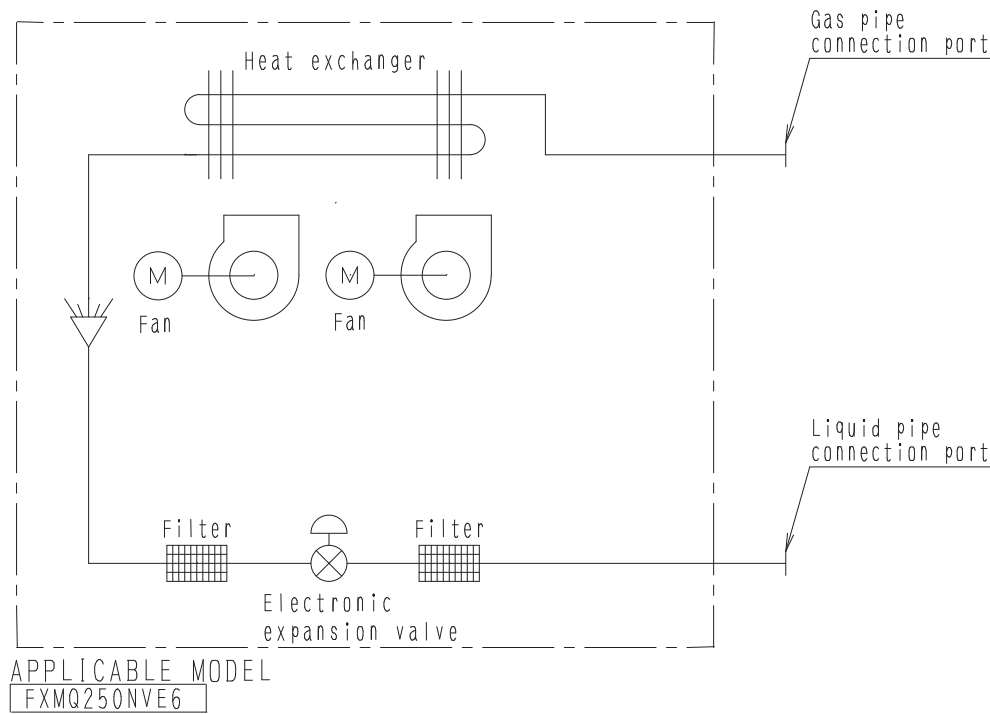
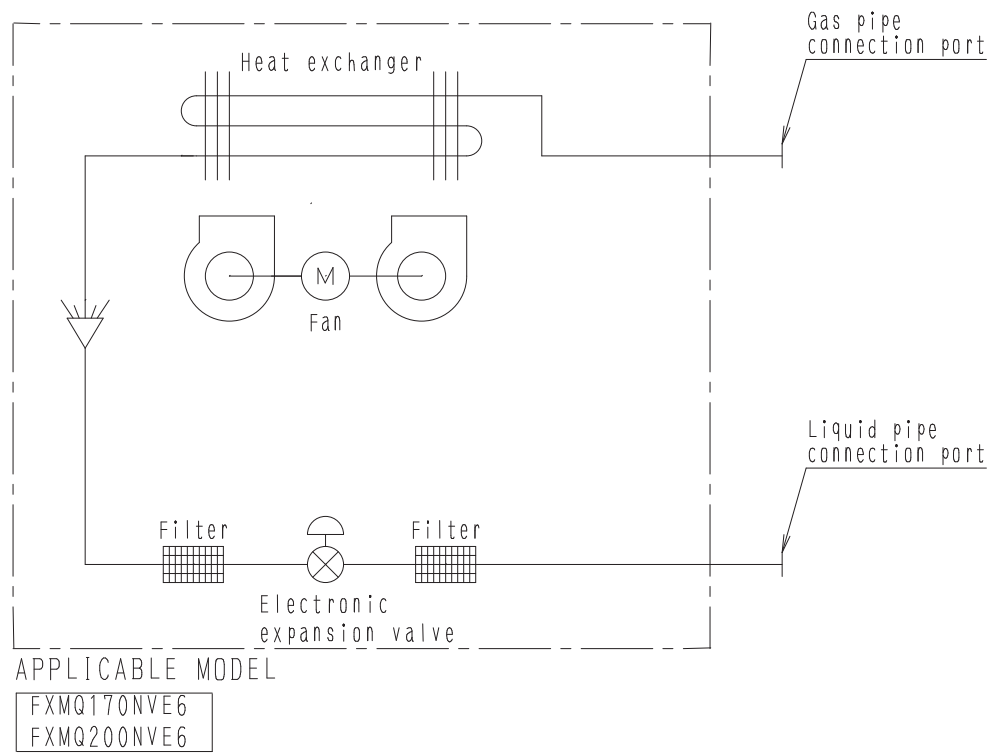
- Notes) 1. Location of unit's Name Plates:
Switch box surface
2. Mount the air filter at the suction side.
(Select its color/method (gravity method))
(50% or more,

Number	Name	Description
1 3	Drain Pump(Optional)	
1 2	Drain piping connection	
1 1	Name plate	
1 0	Air Filter	
9	Suction flange	
8	Discharge companion flange	
7	Hanger	M10
6	Transmission wiring connection	
5	Power supply wiring connection	
4	Switch box	
3	Ground terminal	M5(Inside switch box)
2	Gas pipe connection	Attendant piping connection
1	Liquid pipe connection	Flare connection

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4. Piping Diagrams

FXMQ170NVE6 / FXMQ200NVE6 / FXMQ250NVE6



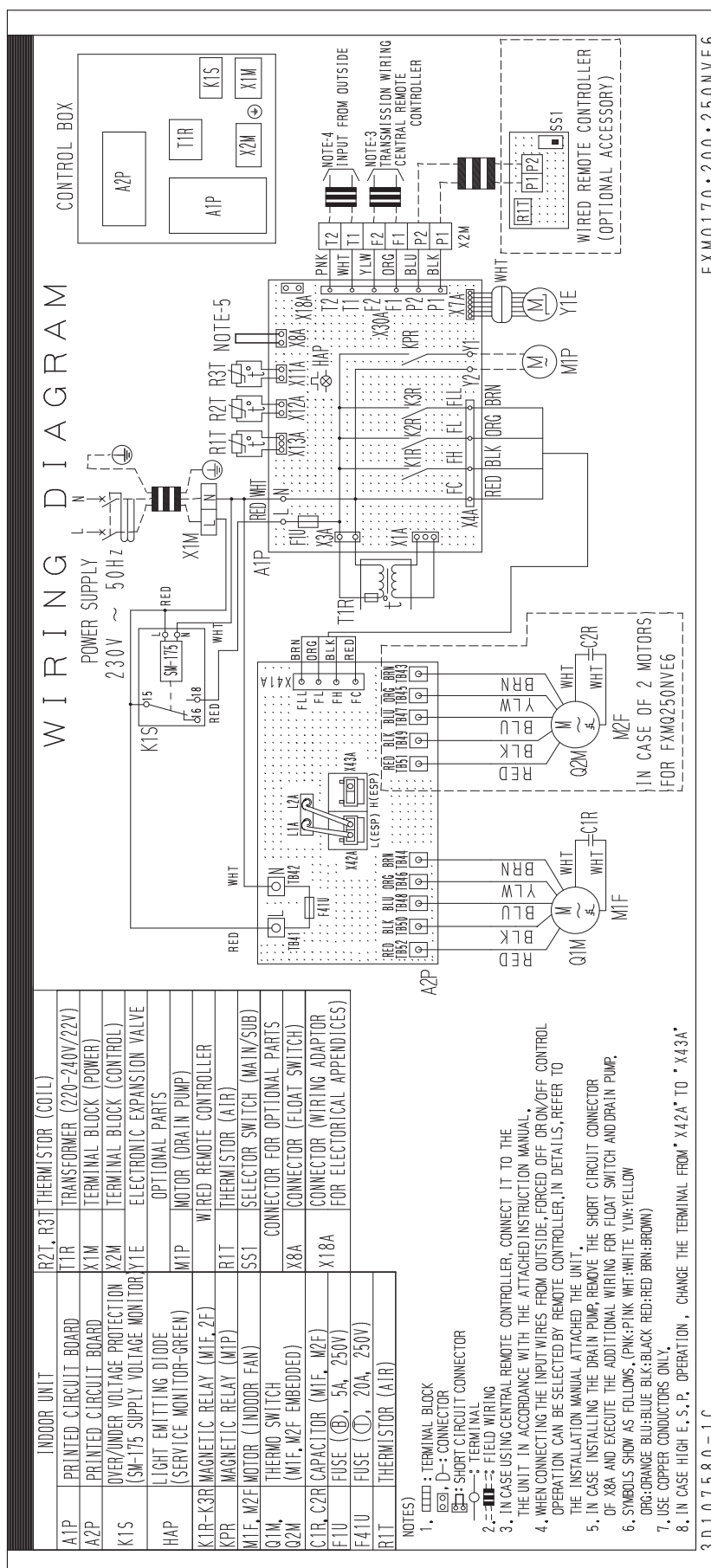
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■ Refrigerant pipe connection port diameters

Model	Unit: mm	
	Gas	Liquid
FXMQ170NVE6 / FXMQ200NVE6	φ19.1	φ9.5
FXMQ250NVE6	φ22.2	φ9.5

5. Wiring Diagrams

FXMQ170NVE6 / FXMQ200NVE6 / FXMQ250NVE6



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6. Electric Characteristics

FXMQ170NVE6 / FXMQ200NVE6 / FXMQ250NVE6

Units					Power supply		IFM		Input (W)	
Model	Type	Hz	Volts	Voltage range	MCA	MFA	kW	FLA	Cooling	Heating
FXMQ170NVE6	VE	50	230	$\pm 10\%$	4.9	15	0.375×1	3.0	900	900
FXMQ200NVE6					8.2	15	0.750×1	6.3	1100	1100
FXMQ250NVE6					10.9	15	0.450×2	9.0	1650	1650

Symbols :

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

Note:-

1. Voltage Range

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

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

3. MCA/MFA

$MCA = 1.25 \times FLA$

$MFA \leq 4 \times FLA$

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

4. Select wire size based on the MCA.

5. Instead of fuse, Use circuit Breaker.

6. Input : At Rated Air flow Condition.

7. Safety Devices Setting

Model		FXMQ170NVE6	FXMQ200NVE6	FXMQ250NVE6
Printed circuit board fuse		250 V, 5 A	250 V, 5 A	250 V, 5 A
Fan motor thermal fuse	°C	–		–
Fan motor thermal protector	°C	OFF: 135±8 (ON: 87±15)	OFF: 135±8 (ON: 87±15)	OFF: 135±8 (ON: 87±15)

C: 4D107979A

8. Capacity Tables

8.1 Cooling Capacity for Te: 6°C

Model	Capacity indication	Indoor air temp.													
		14°CWB		16°CWB		18°CWB		19°CWB		20°CWB		22°CWB		24°CWB	
		20°CDB		23°CDB		26°CDB		27°CDB		28°CDB		30°CDB		32°CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
FXMQ170NVE6	170	13.0	11.5	15.5	12.9	18.1	14.1	19.3	14.5	20.3	14.7	20.9	15.0	21.2	14.4
FXMQ200NVE6	200	15.1	13.3	18.0	14.9	21.0	16.3	22.4	16.8	23.6	17.0	24.2	16.1	24.6	15.4
FXMQ250NVE6	250	18.9	16.6	22.5	18.5	26.2	20.4	28.0	20.9	29.5	21.1	30.2	20.2	30.8	19.4

TC: Total capacity: kW

SHC: Sensible heat capacity: kW

Notes:

- These capacity tables are for use when selecting a VRV indoor unit. The actual capacity of the VRV system depends on factors such as the selected model of outdoor units, outdoor air temperature and piping length. Please confirm that the corrected capacity of the VRV system satisfies the required heat load.
- ☐ shows rated condition.

8.2 Heating Capacity

Model	Capacity indication	Indoor air temp.					
		16°CDB	18°CDB	20°CDB	21°CDB	22°CDB	24°CDB
		kW	kW	kW	kW	kW	kW
FXMQ170NVE6	170	22.1	22.0	21.0	20.3	19.5	18.3
FXMQ200NVE6	200	26.3	26.2	25.0	24.2	23.4	21.8
FXMQ250NVE6	250	33.1	33.0	31.5	30.5	29.2	27.5

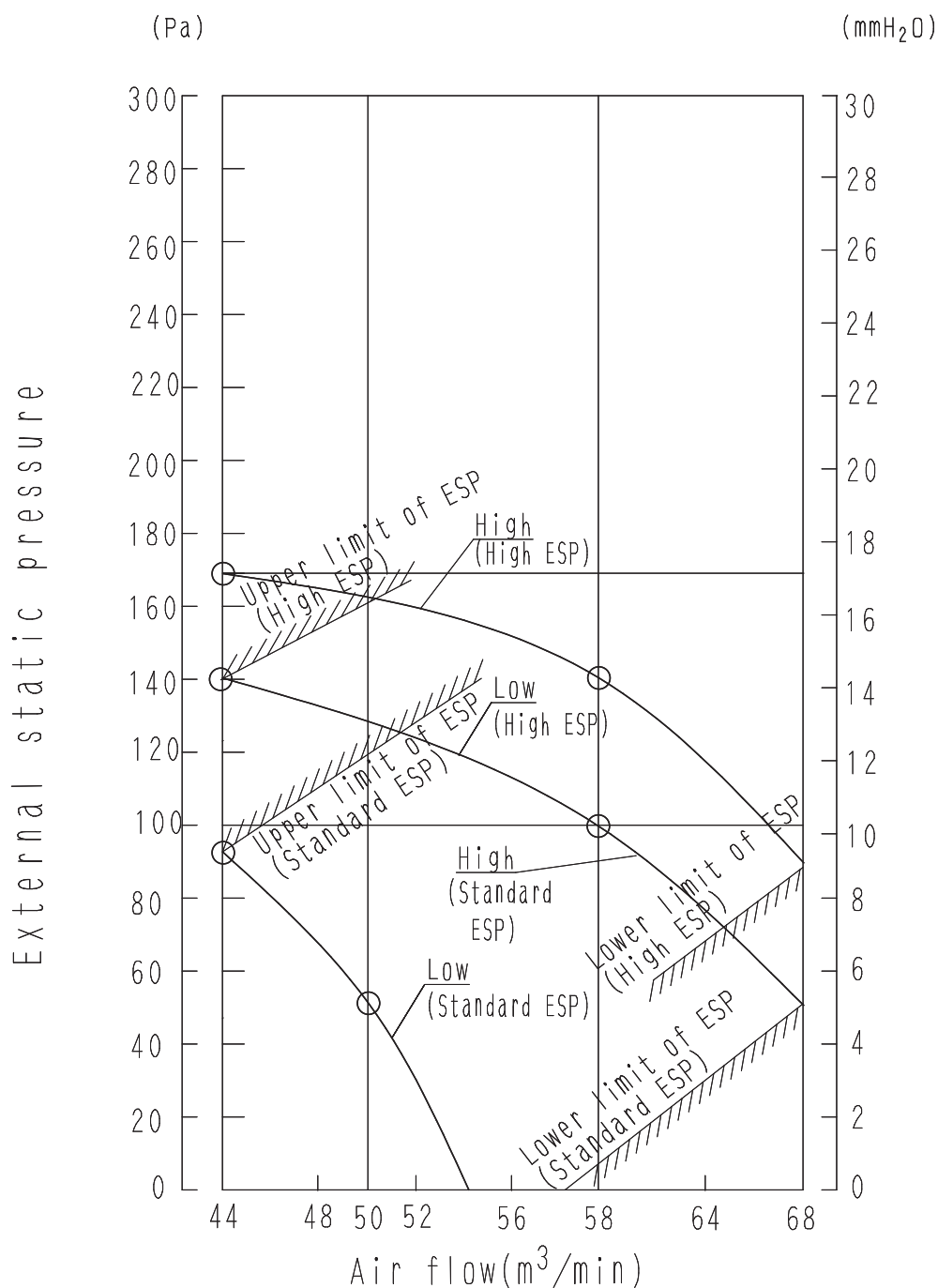
Notes:

- These capacity tables are for use when selecting a VRV indoor unit. The actual capacity of the VRV system depends on factors such as the selected model of outdoor units, outdoor air temperature and piping length. Please confirm that the corrected capacity of the VRV system satisfies the required heat load.
- ☐ shows rated condition.

9. Fan Performances

FXMQ170NVE6

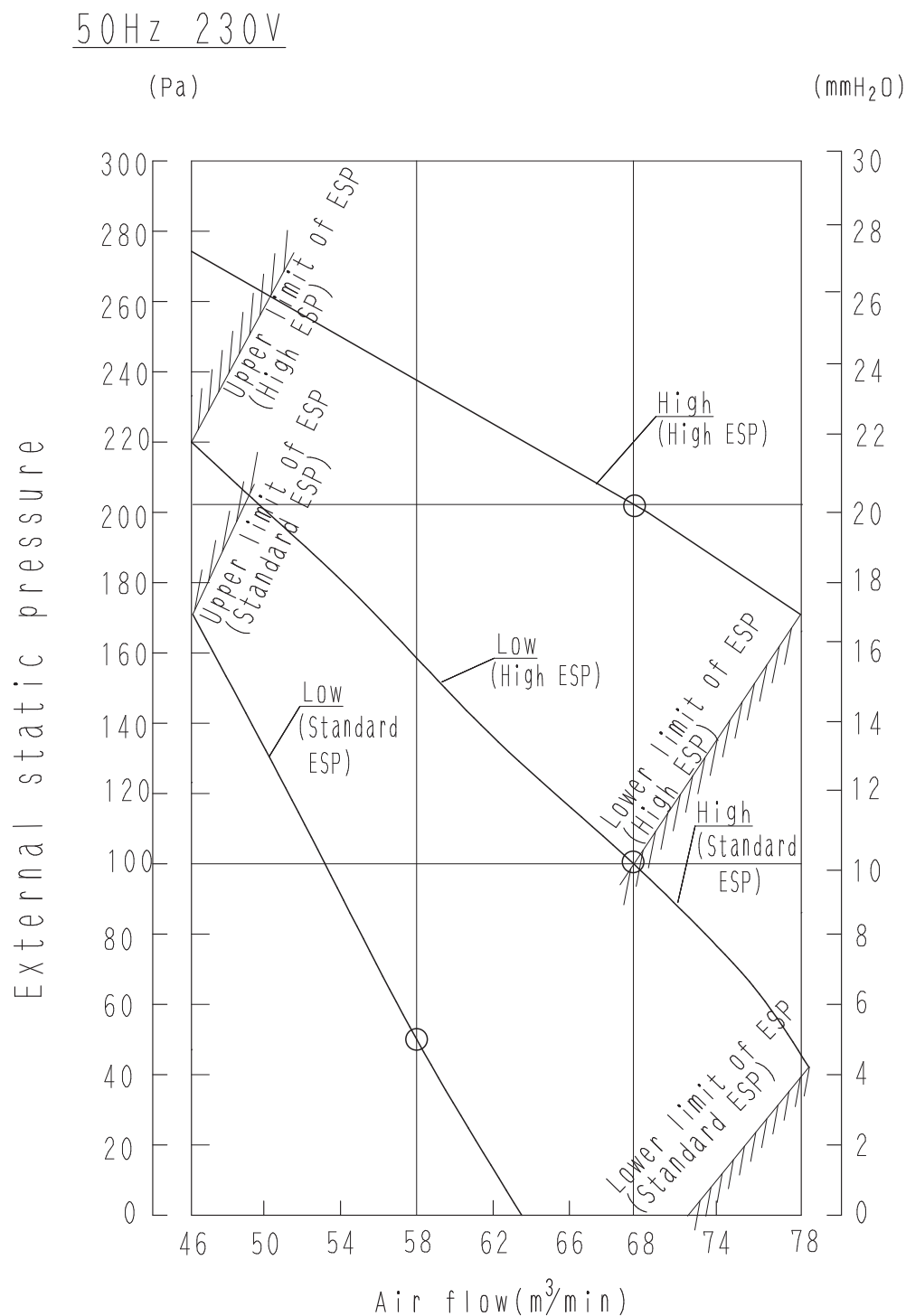
50Hz 230V



Notes)

1. The remote controller can be used to switch between "high" and "low".
2. The air flow is set to "standard" before leaving the factory.
It is possible to switch between "standard ESP" and "high ESP" by changing the switch in the indoor unit electrical box.
3. This graph not include air filter, this air filter pressure drop is approx 20Pa.

FXMQ200NVE6

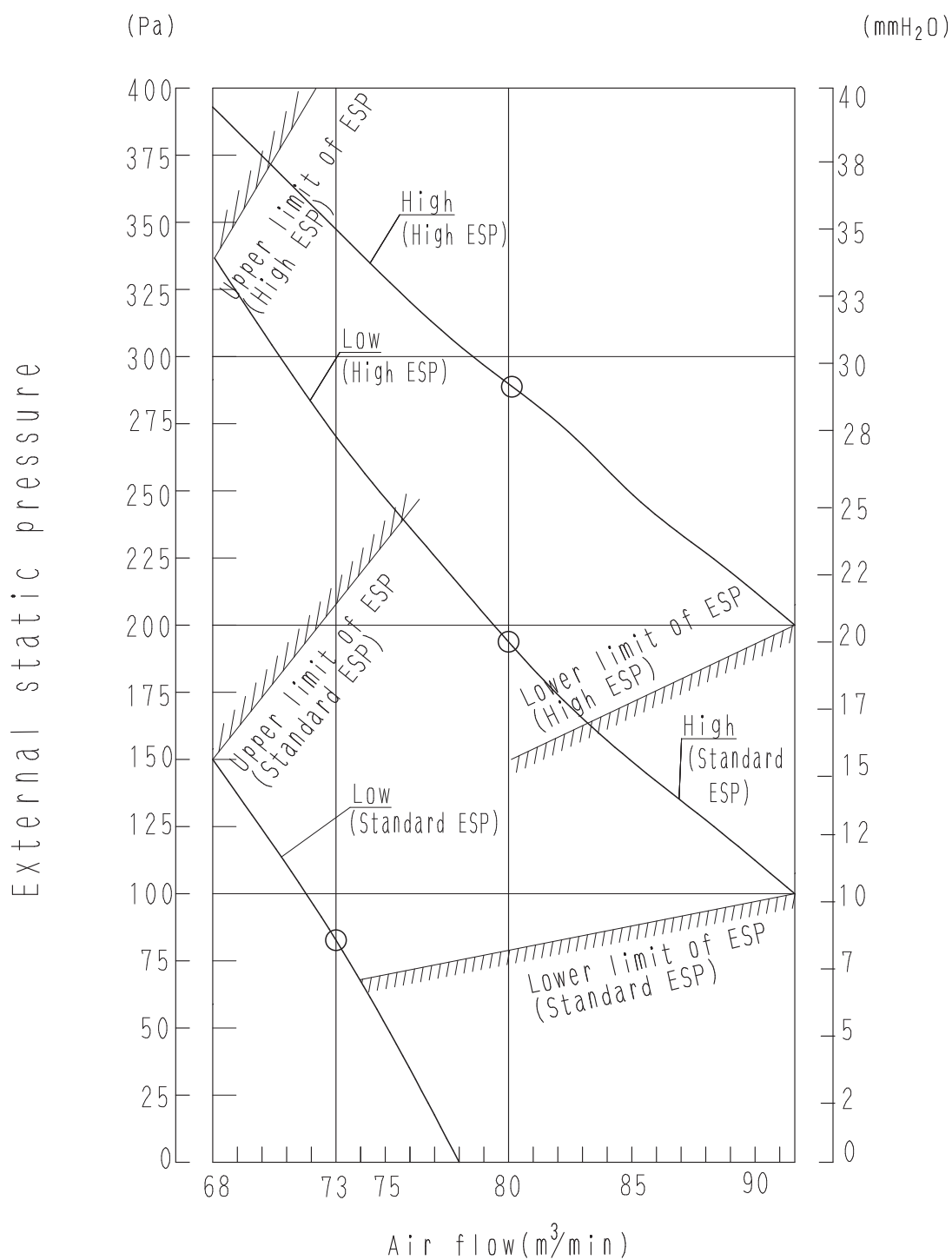


Notes)

1. The remote controller can be used to switch between "high" and "low".
2. The air flow is set to "standard" before leaving the factory.
It is possible to switch between "standard ESP" and "high ESP" by changing the switch in the indoor unit electrical box.
3. This graph not include air filter, this air filter pressure drop is approx 20Pa.

FXMQ250NVE6

50Hz 230V

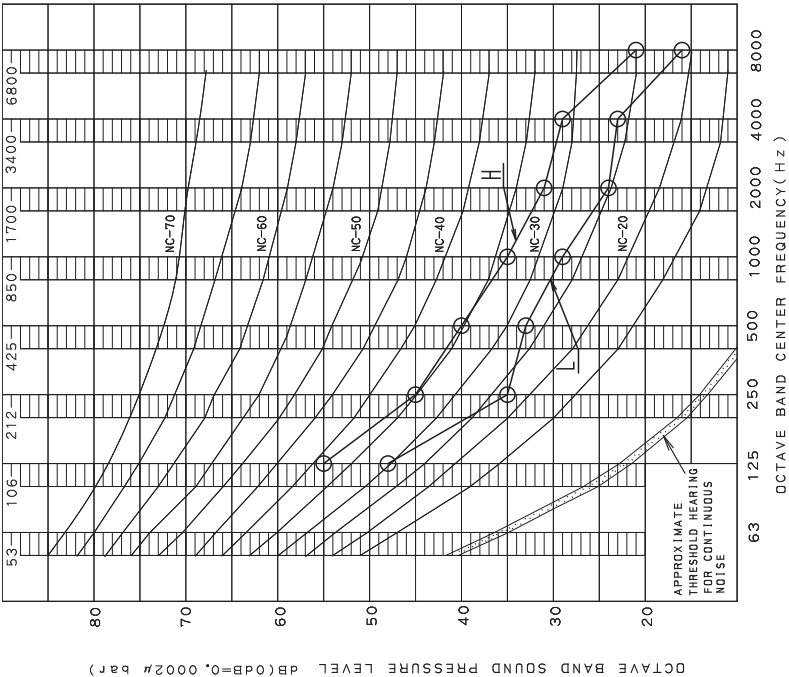


Notes)

1. The remote controller can be used to switch between "high" and "low".
2. The air flow is set to "standard" before leaving the factory.
It is possible to switch between "standard ESP" and "high ESP" by changing the switch in the indoor unit electrical box.
3. This graph not include air filter, air filter Pressure drop is approx 20 Pa.

10.Sound Levels

FXMQ170NVE6



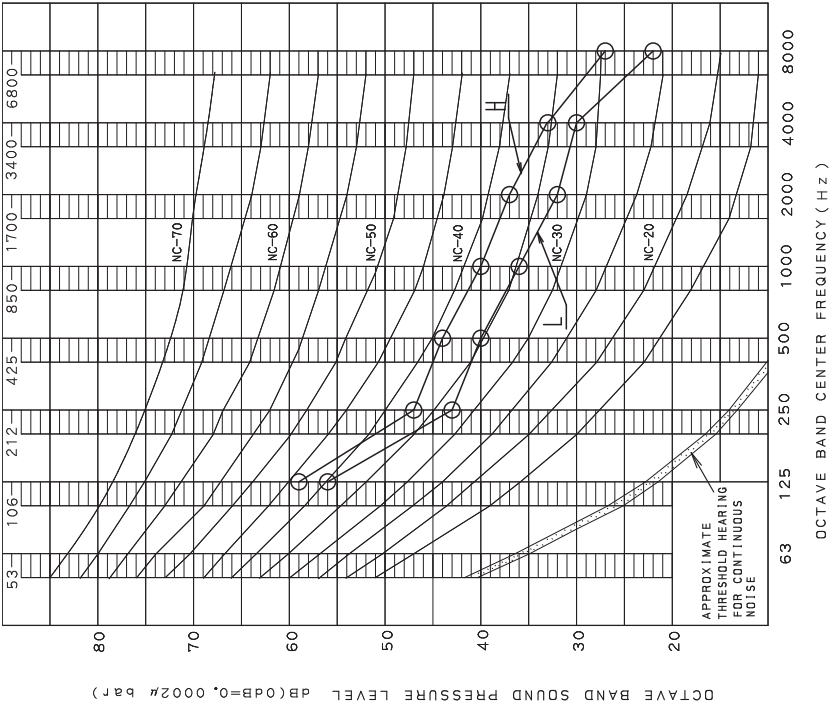
OVER ALL (DB)		OPERATING CONDITIONS	
FAN SPEED	H L	POWER SOURCE	230V 50Hz
ESP(Pa)	100 50	STANDARD CONDITIONS (JIS)	
SCALE A (dB)	45 42	RATED COOLING	
(B.G.N IS ALREADY RECTIFIED)		AIR FILTER NOT INCLUDE	

MEASURING PLACE	LOCATION OF MICROPHONE
ANECHOIC CHAMBER	JISB8616

NOTE : Operation sound differs with operation and ambient condition.

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FXMQ200NVE6



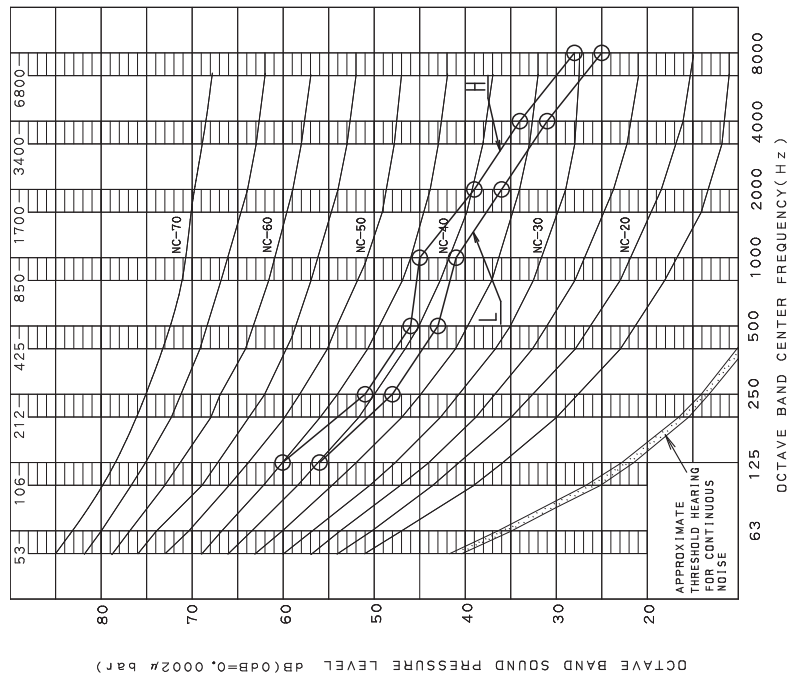
OVER ALL (DB)		OPERATING CONDITIONS	
FAN SPEED	H L	POWER SOURCE	230V 50Hz
ESP(Pa)	100 50	STANDARD CONDITIONS (JIS)	
SCALE A (dB)	47 45	RATED COOLING	
(B.G.N IS ALREADY RECTIFIED)		AIR FILTER NOT INCLUDE	

MEASURING PLACE	LOCATION OF MICROPHONE
ANECHOIC CHAMBER	JISB8616

NOTE : Operation sound differs with operation and ambient condition.

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FXMQ250NVE6



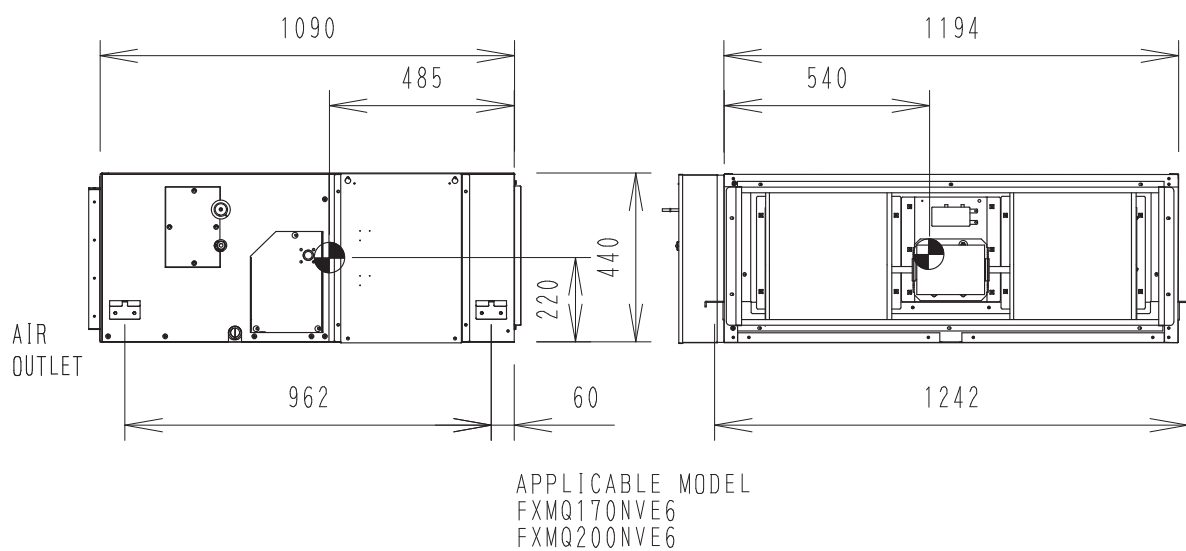
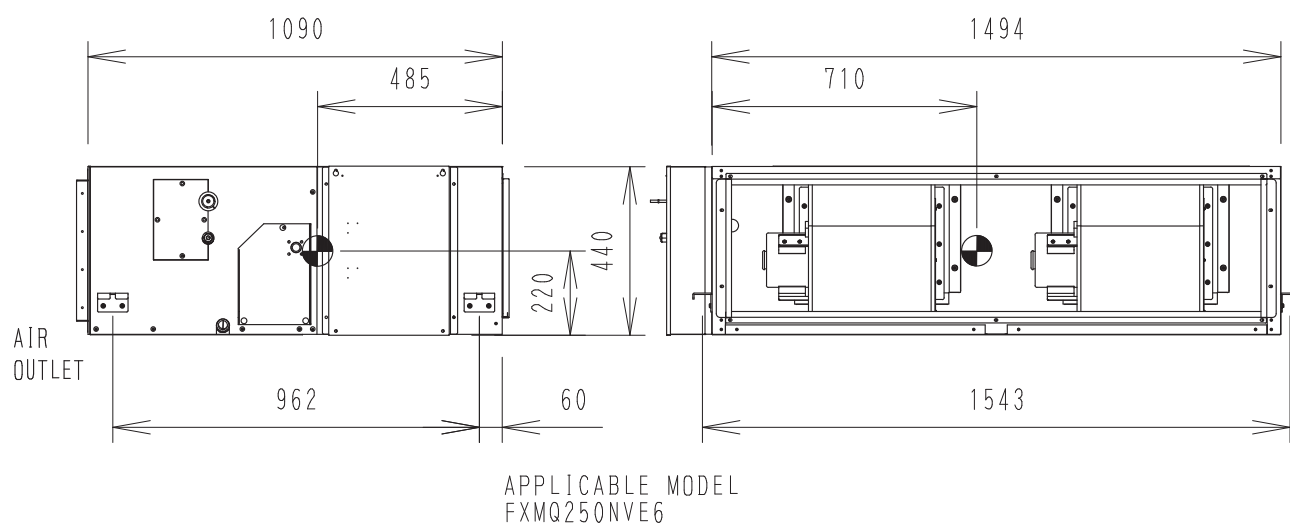
OVER ALL (DB)			OPERATING CONDITIONS	
FAN SPEED	H	L	POWER SOURCE 230V 50Hz	
ESP(Pa)	190	80	STANDARD CONDITIONS (JIS)	
SCALE A (dB)	49	47	RATED COOLING	
B, G, N IS ALREADY RECTIFIED)			AIR FILTER NOT INCLUDE	
MEASURING PLACE			LOCATION OF MICROPHONE	
ANECHOIC CHAMBER			JISB8616	

NOTE : Operation sound differs with operation and ambient condition.

11. Centre of Gravity

FXMQ170NVE6 / FXMQ200NVE6 / FXMQ250NVE6

Unit: mm



12.Accessories

12.1 Optional Accessories (for Controls)

Item				Model		
				FXMQ170NVE6	FXMQ200NVE6	FXMQ250NVE6
Remote controller	Wireless	for VRV SMART	Cooling Only	BRC4M151P16		
			Heat Pump	BRC4M150P16		
		for VRV STANDARD	Cooling Only	BRC4M151W16		
			Heat Pump	BRC4M150W16		
		Receiver		BRC4M61-6		
	Wired		BRC1C62			
	Navigation remote controller (Wired remote controller)			BRC1E62		
Simplified remote controller			BRC2C51			
Remote controller for hotel use			BRC3A61			
Adaptor for wiring			KRP1B61			
Wiring adaptor for electrical appendices (1)			KRP2A61 (Note 1)			
Wiring adaptor for electrical appendices (2)			KRP4AA51 (Note 1)			
Remote sensor			KRCS01-1B			
External control adaptor for outdoor unit (Must be installed on indoor units)			DTA104A61			

C: 3D107686

Note:

1. Either Wiring adaptor for electrical appendices (1) or Wiring adaptor for electrical appendices (2) cannot be connected with Wireless remote controller.

13. Installation Manual

1

DAIKIN

INSTALLATION MANUAL 3P445070-4 B

VRV

SYSTEM Inverter Air Conditioners

MODELS:- Ceiling-mounted Duct type

FXMQ170NVE6

FXMQ200NVE6

FXMQ250NVE6

Installation manual :- Pg.No. 1-11

Operation manual :- Pg.No. 13-15

1. SAFETY PRECAUTIONS

Please read these "SAFETY PRECAUTIONS" carefully before installing air conditioning equipment and be sure to install it correctly.

Meaning of WARNING and CAUTION notices

Both are important notices for safety. Be sure to follow them.

⚠ WARNING Failure to follow these instructions properly may result in personal injury or loss of life.

⚠ CAUTION Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

After completing installation, conduct a test operation to confirm that the equipment operates without any problems. Then, explain to the customer how to operate the equipment and take care of it following the operation manual. Ask the customer to store the manual for future reference.

This air conditioner comes under the term "appliances not accessible to the general public".

This unit is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

⚠ WARNING

- Ask your dealer or qualified personnel to carry out installation work.
Do not attempt to install the air conditioner yourself. Improper installation may result in water leakage, electric shocks or fire.
- Install the air conditioner in accordance with the instructions in this installation manual.
Improper installation may result in water leakage, electric shocks or fire.
- When installing the unit in a small room, take measures so that the refrigerant may not exceed the limiting concentration in the event of refrigerant leakage.
Contact your dealer for further information. If the refrigerant leaks and exceeds the limiting concentration, it may lead to oxygen deficiency.
- Be sure to use only the specified accessories and parts for installation work.
Failure to use the specified parts may result in the unit falling, water leakage, electric shocks or fire.

- Install the air conditioner on a foundation strong enough to withstand the weight of the unit.
If a foundation does not have sufficient strength, the equipment may fall and cause injury.
- Carry out the required installation work in consideration of strong winds, typhoons or earthquakes.
If the installation work is not properly carried out, the unit may fall down and cause accidents.
- The electrical work must be carried out by the qualified electrician in accordance with the local laws and regulations and this installation manual. Make sure to provide a dedicated power supply circuit and never connect additional wiring to the existing circuit.
An insufficient power supply capacity or improper electrical work may lead to electric shocks or fire.
- Be sure to earth the air conditioner.
Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shocks or fire.
A high surge current from lightning or other sources may cause damage to the air conditioner.
- Be sure to install an earth leakage breaker.
Failure to install an earth leakage breaker may result in electric shocks or fire.
- Be sure to switch off the unit before touching any electrical parts.
Touching a live part may result in electric shock.
- For wiring, use the specified wires and connect and fasten them firmly so that no external force from the wires may be applied to the terminal connections.
If the wires are not firmly connected and fastened, it may cause heating, fire or the like.
- When wiring the power supply and connecting the remote controller wiring and transmission wiring, position the wires so that the control box lid can be securely fastened.
Improper positioning of the control box lid may result in electric shocks, fire or the terminals overheating.
- If refrigerant gas leaks during installation, ventilate the area immediately. Toxic gas may be produced if the refrigerant comes into contact with fire.
- After completing installation, check for refrigerant gas leakage. Toxic gas may be produced if the refrigerant gas leaks into the room and comes into contact with a source of fire, such as a fan heater, stove or cooker.



CAUTION

- Carry out drain piping properly following this installation manual and insulate the pipe to prevent condensation. Improper drain piping may result in indoor water leakage and property damage.
- Install the indoor and outdoor units, power cord and connecting wires at least 1 meter away from televisions or radios to prevent picture interference and noise. (Depending on the incoming signal strength, a distance of 1 meter may not be sufficient to eliminate noise.)
- Install the indoor unit as far as possible from fluorescent lamps.
If a wireless kit is installed in a room where the electronic lighting type (inverter or rapid start types) fluorescent lamps exist, the transmitting distance of a remote controller may be shorter.
- Do not install the air conditioner in the following locations:
 1. Where there is a high concentration of mineral oil spray or vapour (e.g. a kitchen).
Plastic parts may deteriorate and cause parts to fall off or water to leak.
 2. Where corrosive gas, such as sulphurous acid gas, is produced.
Corrosion of copper pipes or brazed parts may occur and cause refrigerant leakage.
 3. Where there is a machine that generates electromagnetic wave and where voltage fluctuation often occurs such as a factory.
Control system may malfunction and as a result the unit may not properly operate.
 4. Where flammable gas may leak, where carbon fibre or ignitable dust is suspensions in the air, or where volatile flammables such as paint thinner or gasoline are handled. Operating the unit in such conditions may result in fire.
- The air conditioner is not intended for use in a potentially explosive atmosphere.
- Do not touch the heat exchanger fins.
Improper handling may result in injury.
- Be very careful about product transportation.
Some products use PP bands for packaging. Do not use any PP bands for a means of transportation. It is dangerous.
- Safely dispose of the packing materials.
Packing materials, such as nails and other metal or wooden parts, may cause stabs or other injuries.
Tear apart and throw away plastic packaging bags so that children will not play with them. If children play with a plastic bag which was not torn apart, they face the risk of suffocation.
- Do not turn off the power immediately after stopping operation. Always wait at least 5 minutes before turning off the power. Otherwise, water leakage and trouble may occur.
- In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Follow national standards for installation work.

2. BEFORE INSTALLATION

- **When moving the unit while removing it from the carton box, be sure to lift it by holding on to the four lifting lugs without exerting any pressure on other parts, especially, the refrigerant piping, drain piping, and other resin parts.**
- Be sure to check the type of R410A refrigerant to be used before installing the unit. (Using an incorrect refrigerant will prevent normal operation of the unit.)

2

- The accessories needed for installation must be retained in your custody until the installation work is completed. Do not discard them!
- Decide upon a line of transport. Decide transportation medium.
- Leave the unit inside its packaging while moving, until reaching the installation site. Where unpacking is unavoidable, use a sling of soft material or protective plates together with a rope when lifting, to avoid damage or scratches to the unit.
- For the installation of an outdoor unit, refer to the installation manual attached to the outdoor unit.
- Do not install or operate the unit in rooms mentioned below.
 - **Laden with mineral oil, or filled with oil vapor or spray like in kitchens. (Plastic parts may deteriorate which could eventually cause the unit to fall out of place, or could lead to leaks.)**
 - **Where corrosive gas like sulfurous gas exists. (Copper tubing and brazed spots may corrode which could eventually lead to refrigerant leaks.)**
 - Where exposed to combustible gases and where **volatile flammable gas like thinner or gasoline is used. (Gas in the vicinity of the unit could ignite.)**
 - **Where machines can generate electromagnetic waves. (Control system may malfunction.)**
 - **Where the air contains high levels of salt such as that near the ocean and where voltage fluctuates greatly such as that in factories. Also in vehicles or vessels.**
- This unit, both indoor and outdoor, is suitable for installation in a commercial and light industrial environment.
If installed as a household appliance it could cause electromagnetic interference.

2-1 PRECAUTIONS

- Be sure to read this manual before installing the indoor unit.
- Entrust installation to the place of purchase or a qualified serviceman. Improper installation could lead to leaks and, in worse cases, electric shock or fire.
- Use only parts provided with the unit or parts satisfying required specifications. Unspecified parts could cause the unit to fall out of place, or could lead to leaks and, in worse cases, electric shock or fire.
- Be sure to mount an air filter (part to be procured in the field) in the suction air passage in order to prevent water leaking, etc.

2-2 ACCESSORIES

Check that the following accessories are provided and that each accessory is correct in amount.

[PRECAUTION]

The accessories are required for the installation of the air conditioner. Be sure to keep them until the installation work is completed.

Name	Attached piping (1)	(Other)
Quantity	1 set	• Installation & Operation manual • Screws for flange connection (M5) (48 pcs.) • Insulation material (for hanger)(2 pcs.) • Washers (8 pcs.) • Clamps (2 pcs.)
Shape		



2-3 OPTIONAL ACCESSORIES

- These are two types of remote controllers: wired and wireless. Select a remote controller according to customer request and install in an appropriate place.

Table 1

Remote controller	
Wired type	
Wireless type	Heat pump type
	Cooling only type

NOTE

- If you wish to use a remote controller that is not listed in Table 1, select a suitable remote controller after consulting catalogs and technical materials.

FOR THE FOLLOWING ITEMS, TAKE SPECIAL CARE DURING CONSTRUCTION AND CHECK AFTER INSTALLATION IS FINISHED.

a. Items to be checked after completion of work

Items to be checked	If not properly done, what is likely to occur.	Check
Are the indoor and outdoor unit fixed firmly?	The units may drop, vibrate or make noise.	
Was the installation of the outdoor unit completed?	The unit may malfunction or the components burn out.	
Is the gas leak test finished?	No cooling or heating.	
Is the unit fully insulated? (Refrigerant piping, drain piping, and duct)	Condensate water may drip.	
Does drainage flow smoothly?	Condensate water may drip.	
Does the power supply voltage conform to the indication on the name plate?	The unit may malfunction or the components burn out.	
Are wiring and piping correct?	The unit may malfunction or the components burn out.	
Is the air conditioner properly grounded?	Dangerous in case of current leakage.	
Is wiring size according to specifications?	The unit may malfunction or the components burn out.	
Is something blocking the air outlet or inlet of either the indoor or outdoor units?	No cooling or heating.	
Did you set the external static pressure?	No cooling or heating.	
Are refrigerant piping length and additional refrigerant charge noted down?	The refrigerant charge in the system is not clear.	
Did you check that no wiring connection screws were loose?	Electric shock or fire.	

Also review the "SAFETY PRECAUTIONS".

b. Items to be checked at the time of delivery

Items to be checked	Check
Are you sure the control box lid, air filter, air inlet grille, and air outlet grille are mounted?	
Did you explain about operations while showing the operation manual to your customer?	
Did you deliver the operation manual along with the installation manual to the customer?	
Did you explain the customer the handling and cleaning methods of the field supplies (e.g., the air filter, air inlet grilles, and air outlet grille)?	
Did you deliver instruction manual, if any, for the field supplies to the customer?	

c. Points for explanation about operations

The items with **⚠**WARNING and **⚠**CAUTION marks in the instruction manual are the items pertaining to possibilities for bodily injury and material damage in addition to the general usage of the product. Accordingly, it is necessary that you make a full explanation about the described contents and also ask your customers to read the instruction manual.

2-4 NOTE TO INSTALLER

- Be sure to instruct customers how to properly operate the unit (especially cleaning filters, operating different functions, and adjusting the temperature) by having them carry out operations themselves while looking at the manual.

3. SELECTING INSTALLATION SITE

- Hold the hanging brackets in the case of moving the indoor and outdoor units at the time of and after opening the packages. Do not impose undue force on other parts, such as the refrigerant piping, drain piping, or flanges, in particular.
- Add heat insulation material to the indoor unit if the temperature above the ceiling is likely to exceed 30°C and a relative humidity of 80%.
- Make sure that the insulation material is made of glass wool or polyethylene foam, which has a minimum thickness of 10 mm, and can be accommodated in the opening on the ceiling.
 - Select an installation site where the following conditions are fulfilled and that meets with your customer's approval.
 - A place where cool (warm) air is delivered to the entire room.
 - In the upper space (including the back of the ceiling) of the indoor unit where there is no possible dripping of water from the refrigerant pipe, drain pipe, water pipe, etc.
 - Where optimum air distribution can be ensured.
 - Where nothing blocks the air passage.
 - Where condensation can be properly drained.
 - If supporting structural members are not strong enough to take the unit's weight, the unit could fall out of place and cause serious injury.
 - Where the false ceiling is not noticeably on an incline.
 - Where there is no risk of flammable gas leakage.
 - Where sufficient clearance for maintenance and service can be ensured. (Refer to Fig. 1)
 - Where piping between indoor and outdoor units is possible within the allowable limit. (Refer to the installation manual of the outdoor unit.)





CAUTION

- Install the indoor and outdoor units, power supply wiring and connecting wires at least 1 meter away from televisions or radios in order to prevent image interference or noise. (Depending on the radio waves, a distance of 1 meter may not be sufficient enough to eliminate the noise.)
- In the case of the installation of a wireless remote controller, the transmission distance of the wireless remote controller may be shortened if the room has a fluorescent light of electronic lighting type (i.e., an inverter or rapid-start fluorescent light).
Keep the distance between the receiver and the fluorescent light as far as possible.

(2) Use suspension bolts for installation. Check whether the ceiling is strong enough to support the weight of the unit or not. If there is a risk, reinforce the ceiling before installing the unit.

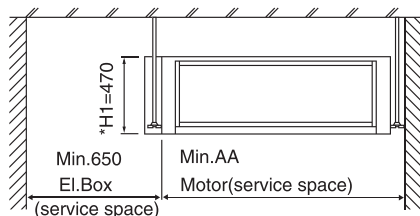
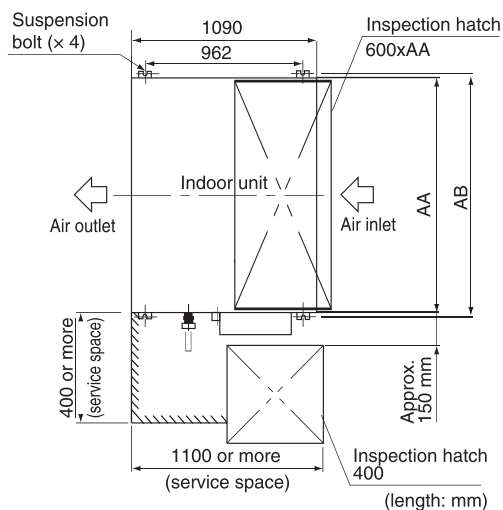


Fig. 1 (length: mm)

- The H1 dimension indicates the height of the product. [Required installation place]
The dimensions indicate the minimum required space of installation.

4. PREPARING BEFORE INSTALLATION

(1) Relative positions of indoor unit and suspension bolt.



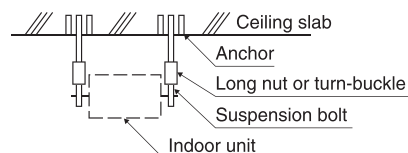
MODEL	AA	AB
FXMQ250NVE6	1490	1540
FXMQ170.200NVE6	1190	1240

(2) Mount the canvas ducts to the air outlet and inlet so that the vibration of the air conditioner will not be transmitted to the duct or ceiling. Apply a sound-absorbing material (insulation material) to the inner wall of the duct and vibration insulation rubber to the hanging bolts (refer to 8. DUCT WORK).

4

- Open installation holes (if the ceiling already exists).
 - Open the installation holes on the ceiling. Lay the refrigerant piping, drain piping, power line, transmission wiring, and remote controller wiring for the piping and wiring connection port of the unit.
In the case of the installation of a wireless remote controller, refer to the installation manual provided with the wire-less remote controller.
Refer to 6. REFRIGERANT PIPING WORK, 7. DRAIN PIPING WORK, and 10. WIRING EXAMPLE AND HOW TO SET THE REMOTE CONTROLLER.
- The ceiling framework may need reinforcement in order to keep the ceiling horizontal and prevent the vibration of the ceiling after the installation holes are opened. For details, consult your construction or interior contractor.
- Install suspension bolts. (Use bolts of 10 mm diameter.)
 - Install the equipment where supporting structures are strong enough to bear the equipment's weight. Use embedded inserts or anchor bolts with new buildings and hole-in-anchors with old buildings.

⟨ Installation example ⟩



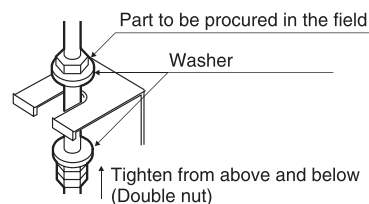
Note) All the above parts are field supplied.

5. INDOOR UNIT INSTALLATION

Installing optional accessories before installing the indoor unit is easier.

As for the parts to be used for installation work, be sure to use the provided accessories and specified parts designated by our company.

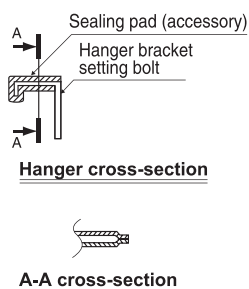
(1) Fix the hanger bracket to the suspension bolt. Tighten both upper and lower nuts firmly using washers.



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- (2) Adjust the height of the unit.
 (3) Make sure the unit is level.

- Level the unit with a level when installing. If the unit is not level, it could become the source of water leaks
- When leveling the unit, check all four corners with a level or a vinyl tube containing water.



- (4) Tighten the nuts on the top.
 (5) Insulate the two hanger brackets on the discharge side with the sealing pad. (× 2) Insulate the edges so that the surface and edges of the hanger brackets cannot be seen.

CAUTION

Setting the unit at an angle opposite to the drain piping might cause leaks.

6. REFRIGERANT PIPING WORK

- As for the refrigerant piping of the outdoor unit, refer to the installation manual provided to the outdoor unit.
- Perform heat insulation work on both gas piping and liquid piping, or otherwise water leakage may occur.
- Use the insulation material that withstands a temperature of 120°C.
- Reinforce the insulation material for the refrigerant piping if the ambient temperature is high, or otherwise dew condensation may occur on the surface of the insulation material.
- Make sure that the refrigerant is R410A before refrigerant piping work. If the refrigerant is different, the air conditioner will not operate normally.

CAUTION

This product uses new refrigerant (R410A) only. Be sure to keep the items on the right-hand side and conduct the installation work.

- Use an appropriate pipe cutter and flare tool for R410A.
- When connecting the flare, apply ether oil or ester oil only to inner side of the flare.
- Be sure to use the flare nut provided with the unit. (Do not use a different flare nut (such as a type-1 flare nut), or otherwise refrigerant leakage may result.)
- Perform the curing of the piping with pinching or taping of the piping in order to prevent the intrusion of dirt, dust, and moisture into the piping.

CAUTION

- Be sure to use the specified type of refrigerant for the refrigeration cycle and do not contaminate the refrigerant with air.
- Ventilate the room in case of refrigerant leakage during installation work.

- (1) Connect the piping.
- The outdoor unit is filled with refrigerant.
 - When connecting or disconnecting piping to or from the unit, **be sure to use two spanners and two torque wrenches. (Refer to Fig. 2)**

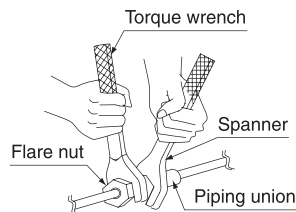


Fig. 2

- Refer to Table 2 for the processing dimensions of the flare.
- Use the flare nut provided with the unit.
- **Apply ether oil or ester oil only to inner side of the flare** and screw in the flare nut three to four turns first by hand at the time of connecting the flare nut. (Refer to Fig. 3)

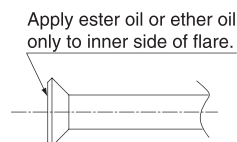


Fig. 3

Refer to Table 2 for the corresponding tightening torque.

Table 2

Pipe size	Tightening torque	Flare dimensions A (mm)	Flare shape
φ 9.5	32.7 – 39.9N·m	12.8 – 13.2	

CAUTION

- **Do not excessively tighten the flare nut.** Doing so will break the flare nut and refrigerant leakage may occur.
- **Make sure that all parts around the flare are free of oil.** The drain pan and the resin part may be deteriorated if oil is attached.
- If no torque wrenches are available, refer to Table 3 as a standard. When the flare nut is tightened with the spanner, the tightening torque should increase suddenly. Tighten the flare nut further for the corresponding angle shown in Table 3.

Table 3

Pipe size	Further tightening angle	Recommended arm length of tool
φ 9.5	60 to 90 degrees	Approx. 200mm



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- (2) On completion of installation work, **check that there is no gas leakage.**
- (3) Refer to the illustration on the right-hand side and be sure to perform heat insulation work on the piping joints after gas leakage checks.

NOTE

- Attached piping is needed for connecting gas piping. Use attached piping according to the size of the piping to be connected. When connecting the included piping, use the included piping flange hex bolts (2) and spring washers (2).
- Connect refrigerant piping and branching according to the attached installation manuals that come with the outdoor unit.

Indoor units to be connected	Gas piping diameter	Liquid piping diameter
FXMQ170-200NVE6	φ19.1 Use attached piping.	φ9.5
FXMQ250NVE6	φ22.2 Use attached piping.	φ9.5

**CAUTION**

- Be sure to perform the heat insulation of the local piping up to the piping joint.**
If the piping is exposed, dew condensation may result. Furthermore, a burn may be caused if a human body comes in contact with the piping.
- Be sure to use wet cloth on gas pipe insulation, when removing the cap or also when brazing with accessory pipe.**
If wet cloth is not used, insulation may catch fire, so to prevent this situation/condition wet cloth must be used.
- Perform nitrogen substituent or apply nitrogen into the refrigerant piping (see NOTE 1) in the case of refrigerant piping brazing (see NOTE 2). Then perform the flare connection of the indoor unit. (Refer to Fig. 4)

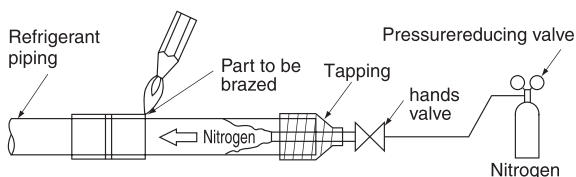


Fig. 4

**CAUTION**

- Do not use any antioxidant at the time of piping brazing.**
The piping may be clogged with a residual antioxidant and parts may malfunction.

NOTE

- At the time of brazing, set the pressure of nitrogen to approximately 0.02 MPa (close to the pressure of a breeze coming in contact with the cheek) with a decompression valve.
- Do not use flux at the time of brazing and connecting the refrigerant piping. Use a copper phosphorus brazing alloy (BCuP-2: JIS Z 3264/BCu 93P-710/795: ISO3677), which does not require flux, for brazing.

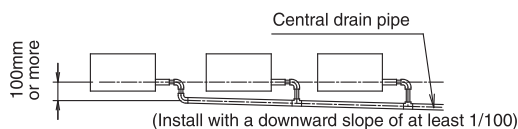
(Flux has a bad influence on the refrigerant piping. Chlorine based flux will cause piping corrosion. Furthermore, if it contains fluorine, the flux will deteriorate refrigerant oil.)

- As for the branching of the refrigerant piping or refrigerant, refer to the installation manual provided with the outdoor unit.

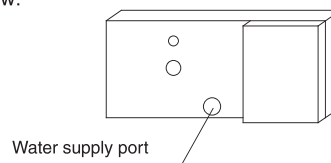
7. DRAIN PIPING WORK

⟨⟨**Rig the drain pipe as shown below and take measures against condensation. Improperly rigged piping could lead to leaks and eventually wet furniture and belongings.**⟩⟩
⟨⟨**Insulate the drain hose inside the building.**⟩⟩

- Carry out the drain piping.
 - A drain trap need not be installed.
 - The diameter of the piping is the same as that of the connecting pipe (φ41.5), and should be kept equal to or greater than that of the connecting pipe.



- After piping work is finished, check drainage flows smoothly.
 - Open the water supply port, add approximately 1 liter of water slowly into the drain pan and check drainage flow.

**CAUTION**

- Drain piping connections**
Do not connect the drain piping directly to sewage pipes that smell of ammonia. The ammonia in the sewage might enter the indoor unit through the drain pipes and corrode the heat exchanger.

8. DUCT WORK

Pay utmost attention to the following items and conduct the ductwork.

- Check that the duct will not be in excess of the setting range of external static pressure for the unit. (Refer to the technical datasheet for the setting range. Each model has each setting range of external static pressure.)
- Attach a canvas duct each to the air outlet and air inlet so that the vibration of the equipment will not be transmitted to the duct or ceiling.
Use a sound-absorbing material (insulation material) for the lining of the duct and apply vibration insulation rubber to the hanging bolts.
- At the time of duct welding, perform the curing of the duct so that the sputter will not come in contact with the drain pan for the filter.
- If the metal duct pass through a metal lath, wire lath, or metal plate of a wooden structure, separate the duct and wall electrically.
- Be sure to heat insulate the duct for the prevention of dew condensation. (Material: Glass wool or styrene foam; Thickness: 25 mm)



- Be sure to attach the field supply air filter to the air inlet of the unit or field supply inlet in the air passage on the air suction side. (Be sure to select an air filter with a dust collection efficiency of 50 percent weight.)
- Explain the operation and washing methods of the locally procured components (i.e., the air filter, air inlet grille, and air outlet grille) to the customer.
- Locate the air outlet grille on the indoor side for the prevention of drafts in a position where indirect contact with people.

9. ELECTRIC WIRING WORK

9-1 GENERAL INSTRUCTIONS

Shut off the power before starting any work.

- All field supplied parts and materials and electric works must conform to local codes.
- Use copper wire only.
- For electric wiring work, refer to also "Wiring diagram label" attached to the control box lid.
- For remote controller wiring details, refer to the installation manual attached to the remote controller.
- All wiring must be performed by an authorized electrician.
- This system consists of multiple indoor units. Mark each indoor unit as unit A, unit B..., and be sure the terminal board wiring to the outdoor unit and BS unit are properly matched. If wiring and piping between the outdoor unit and an indoor unit are mismatched, the system may cause a malfunction.
- A circuit breaker capable of shutting down power supply to the entire system must be installed.
- Refer to the installation manual attached to the outdoor unit for the size of power supply wiring connected to the outdoor unit, the capacity of the circuit breaker and switch, and wiring instructions.
- Be sure to ground the air conditioner.
- Do not connect the ground wire to gas and water pipes, lightning rods, or telephone ground wires.
- Gas pipes : might cause explosions or fire if gas leaks.
- Water pipes : no grounding effect if hard vinyl piping is used.
- Telephone ground wires or lightning rods : might cause abnormally high electric potential in the ground during lighting storms.

9-2 ELECTRIC CHARACTERISTICS

Units				Power supply		Fan motor	
Model	Hz	Volts	Voltage range	MCA	MFA	kW	FLA
FXMQ170NVE6	50	230	Max. 253 Min. 207	4.9	15	0.375×1	3.0
FXMQ200NVE6				8.2	15	0.750×1	6.3
FXMQ250NVE6				10.9	15	0.450×2	9.0

MCA: Min. Circuit Amps (A); MFA: Max. Fuse Amps (A)
kW: Fan Motor Rated Output (kW); FLA: Full Load Amps (A)

9-3 SPECIFICATIONS FOR FIELD SUPPLIED FUSES AND WIRE

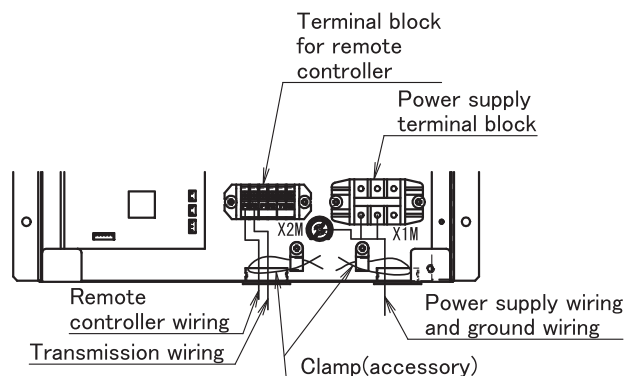
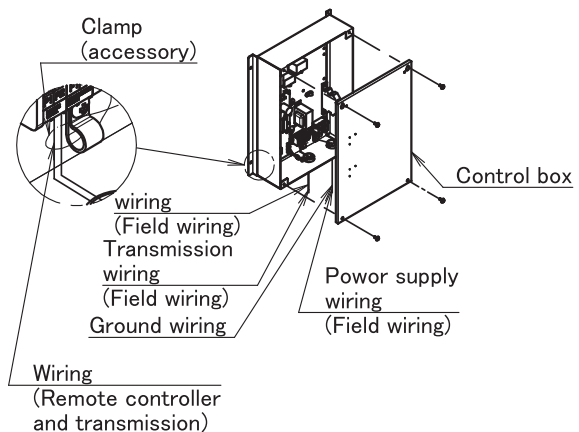
Model	Power supply wiring			Remote controller wiring Transmission wiring	
	Field fuses 	Wire	Size	Wire	Size
FXMQ170NVE6 FXMQ200NVE6 FXMQ250NVE6	15A	H05VV-U3G	Size must comply with local codes.	Sheathed wire (2 wire)	0.75 - 1.25 mm ²

NOTE

1. Allowable length of transmission wiring between indoor/out-door units and between the indoor unit and the remote controller is as follows.
 - (1) Outdoor unit – Indoor unit:
Max. 1000 m (Total wiring length: 2000 m)
 - (2) Indoor unit – Remote controller:
Max. 500 m
2. Shows only in case of protected pipes. Use H07RN-F in case of no protection.
3. Vinyl cord with sheath or cable (Insulated thickness : 1mm or more)

10. WIRING EXAMPLE AND HOW TO SET THE REMOTE CONTROLLER

10-1 HOW TO CONNECT WIRINGS

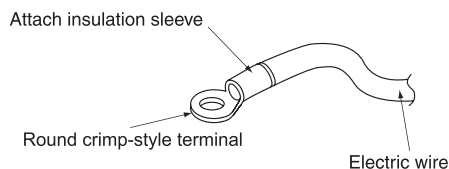


CAUTION

- Be sure to attach the sealing material or putty (field supplied) to hole of wiring to prevent the infiltration of water as well as any insects and other small creatures from outside. Otherwise a short-circuit may occur inside the control box.
- When clamping the wires, be sure no pressure is applied to the wire connections by using the included clamping material to make appropriate clamps. Also, when wiring, make sure the lid on the control box fits snugly by arranging the wires neatly and attaching the control box lid firmly. When attaching the control box lid, make sure no wires get caught in the edges. Pass wiring through the wiring, through holes to prevent damage to them.
- Make sure the remote controller wiring, the wiring between the units, and other electrical wiring do not pass through the same locations outside of the unit, separating them by at least 50mm, otherwise electrical noise (external static) could cause mistaken operation or breakage.

[Precautions for Power Supply Wiring]

- Connect round crimp-style terminals provided with insulation sleeves to the terminal block for power supply.



Be sure to follow the instructions provided below if the specified terminals cannot be used.

Otherwise, abnormal heat may be generated as a result of the loosening of the wires.

Connect the wires evenly.



Do not connect a wire to the single side only.



Do not connect wires different from each other in diameter.



- If stranded wires are used, do not solder the front end of the wires.
- Connect proper wires securely and fix the wires so that external force will not be imposed on the terminals.
- Use an appropriate screwdriver to tighten the terminal screws. The screw heads may be damaged if the screwdriver is too small and the terminal screws will not be tightened properly.
- Do not tighten the terminal screws excessively, or otherwise the screw heads may be damaged.
- Refer to the table below for the required tightening torque values of the terminal screws.

Terminal	Size	Tightening torque
Terminal block for remote controller (6P)	M3.5	0.79 – 0.97 N·m
Power supply terminal block (3P)	M5	2.39 – 2.91 N·m
Ground terminal	M5	3.02 – 4.08 N·m

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PRECAUTIONS

1. Do not connect wires of different gauge to the same grounding terminal. Looseness in the connection may deteriorate protection.
2. Outside of the unit, keep transmission wiring at least 50 mm away from power supply wiring. The equipment may mal-function if subjected to electrical (external) noise.
3. For remote controller wiring, refer to the "INSTALLATION MANUAL OF REMOTE CONTROLLER" attached to the remote controller.
4. **Never connect power supply wiring to the terminal block for remote controller wiring. A mistake of the sort could damage the entire system.**
5. Use only specified wire and tightly connect wires to terminals. Be careful wires do not place external stress on terminals. Keep wiring in neat order and so as not to obstruct other equipment such as popping open the control box lid. Make sure the lid closes tight. Incomplete connections could result in overheating, and in worse case, electric shock or fire.

10-2 WIRING EXAMPLE

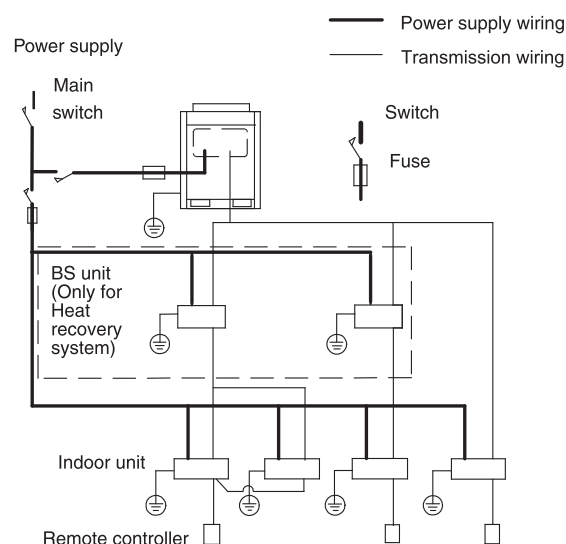
WARNING

Install an earth leakage breaker.

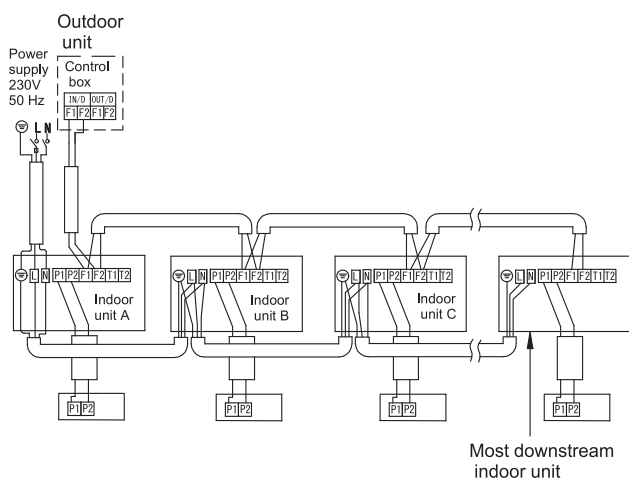
The installation of an earth leakage breaker is imperative for the prevention of electric shocks and fire accidents.

- Fit the power supply wiring of each unit with a switch and fuse as shown in the drawing.

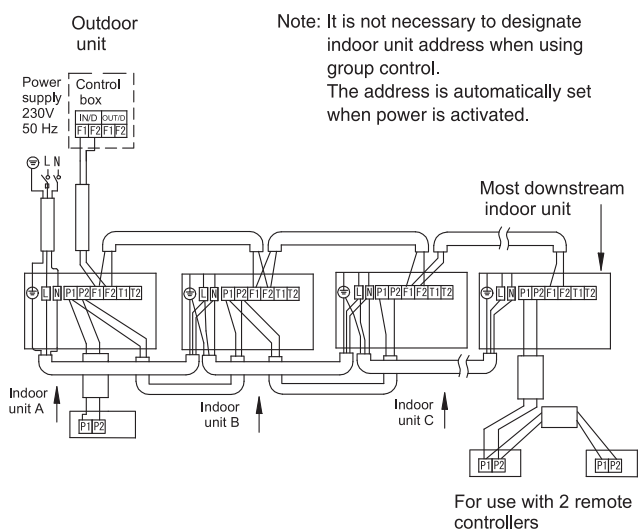
COMPLETE SYSTEM EXAMPLE (3 SYSTEMS)



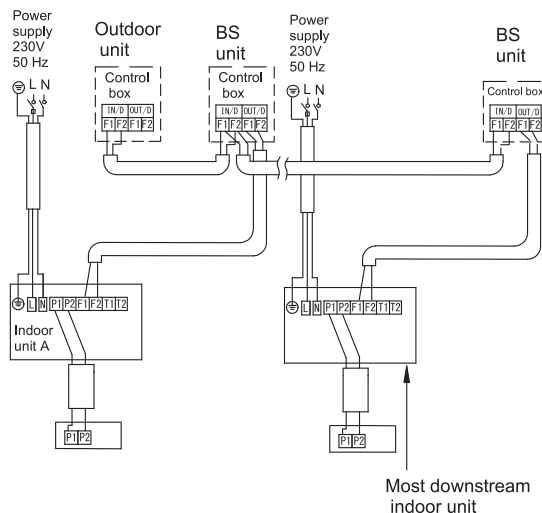
1. When using 1 remote controller for 1 indoor unit. (Normal operation)



2. For group control or use with 2 remote controllers



3. When including BS unit



PRECAUTIONS

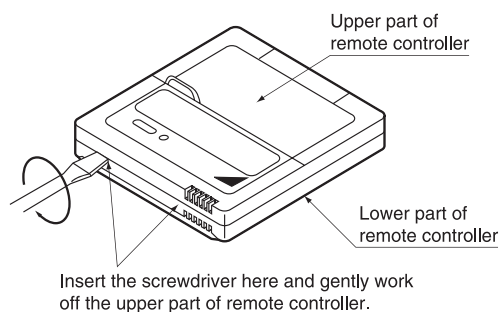
1. If no earth leakage breaker is required, install a breaker or load switch with a fuse for the wiring. If an earth leakage breaker is required, make sure that the earth leakage breaker is designed to protect the air conditioner from ground faults, overloads, and short-circuiting.
2. The remote controller wiring (P1 and P2) and transmission wiring (F1 and F2) have no polarity.

10-3 CONTROL BY 2 REMOTE CONTROLLERS (Controlling 1 indoor unit by 2 remote controllers)

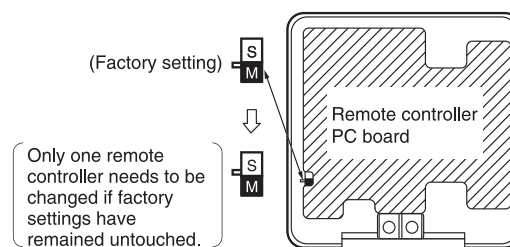
- Set one of the remote controllers to main and the other to sub in the case of remote control with two remote controllers.

Switching Main/Sub

- (1) Insert a $\ominus$ screwdriver into the clearance between the grooves of the lower casing and the upper casing to remove the upper casing. (2 grooves) (The remote controller PCB is attached to the upper casing.)



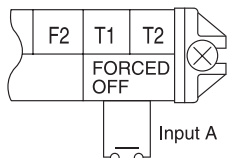
- (2) Set the main/sub switch on one of the remote controller PCBs to sub. (Keep the switch of the other remote controller PCB set to main.)



10

10-4 COMPUTERISED CONTROL (FORCED OFF AND ON /OFF OPERATION)

- (1) Wire specifications and how to perform wiring
- Connect the input from outside to terminals T1 and T2 of the terminal block for remote controller.



Wire specification	Sheathed vinyl cord or cable (2 wire)
Gauge	0.75 - 1.25 mm ²
Length	Max. 100 m
External terminal	Contact that can ensure the minimum applicable load of 15 V DC, 1 mA.

- (2) Actuation
- The following table explains FORCED OFF and ON/OFF OPERATIONS in response to Input A.

FORCED OFF	ON/OFF OPERATION
Input "ON" stops operation (impossible by remote controllers.)	Input OFF ☒ ON turns ON unit.
Input OFF enables control by remote controller.	Input ON ☒ OFF turns OFF unit.

- (3) How to select FORCED OFF and ON/OFF OPERATION
- Turn the power on and then use the remote controller to select operation.

10-5 CENTRALIZED CONTROL

- For centralized control, it is necessary to designate the group No. For details, refer to the manual of each optional controllers for centralized control.

11. FIELD SETTING

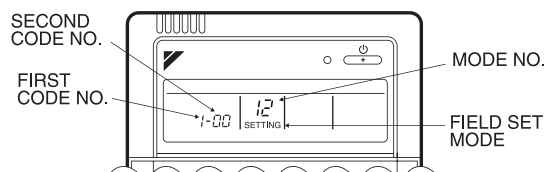
NOTE

- Before the test operation of the outdoor unit as explained in **12. TEST OPERATION**, be sure to make the following field settings as explained in **11. FIELD SETTING**.

Make sure the control box lids are closed on the indoor and outdoor units.

Field setting must be made from the remote controller in accordance with the installation condition.

- Setting can be made by changing the "MODE NO.", "FIRST CODE NO.", and "SECOND CODE NO.".
- For setting and operation, refer to the "FIELD SETTING" in the installation manual of the remote controller.



- Set the remote controller to the "FIELD SET MODE". For details, refer to the "HOW TO SET IN THE FIELD", in the remote controller manual.
- When in the "FIELD SET MODE", select "MODE NO. 12", then set the "FIRST CODE NO." to "1". Then set "SECOND CODE NO." to "01" for FORCED OFF and "02" for ON/OFF OPERATION. (FORCED OFF at factory set)

With Wireless Remote Controller Used

Set the wireless remote controller address before using the wireless remote controller.

For the setting method of the address, refer to the operation manual provided with the wireless remote controller.

NOTE

- A "MODE NO." is set on a group basis. To make a mode setting on a room unit basis or check the setting made, however, set the corresponding mode number in the parentheses.

Settings for Optional Accessories

- In the case of connecting optional accessories, refer to the operation manuals provided with the optional accessories and make necessary settings.



12. TEST OPERATION

Refer to the installation manual of the outdoor unit.

- The operation lamp of the remote controller will flash when any malfunction occurs. Check the malfunction code on the liquid crystal display to identify the point of trouble. An explanation of malfunction codes and the corresponding trouble is provided in "CAUTION FOR SERVICING" of the outdoor unit. If any of the items in Table 4 are displayed, there may be a problem with the wiring or power, so check the wiring again.

Table 4

Remote control display	Content
"  " is lit up	• There is a short circuit at the FORCED OFF terminals (T1, T2)
"U4" is lit up "UH" is lit up	• The power on the outdoor unit is off. • The outdoor unit has not been wired for power supply. • Incorrect wiring for the transmission wiring and / or FORCED OFF wiring.
No display	• The power on the indoor unit is off. • The indoor unit has not been wired for power supply. • Incorrect wiring for the remote con-troller wiring, the transmission wiring and / or the FORCED OFF wiring.



WARNING

If interior finish work is continuing on completion of the test operation of the air conditioner, explain the customer not to operate the air conditioner until the interior finish work is completed for the protection of the air conditioner. Otherwise, substances that will be generated from interior finish work materials, such as paint and adhesive agents, may contaminate the air conditioner.

DAIKIN**OPERATION MANUAL****3P445070-4 B****SYSTEM Inverter Air Conditioners**

MODELS:- Ceiling-mounted Duct type

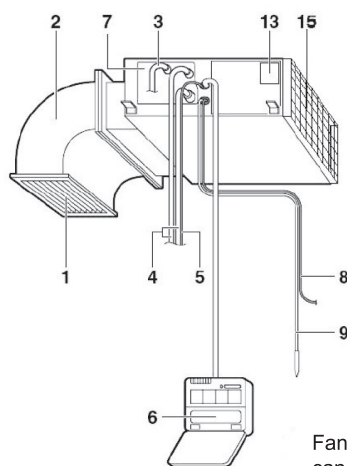
FXMQ170NVE6**FXMQ200NVE6****FXMQ250NVE6****FOR STANDARD MODEL**

Fig.1

Fan speed of this unit
can be selected in 2 stages
(H,L).

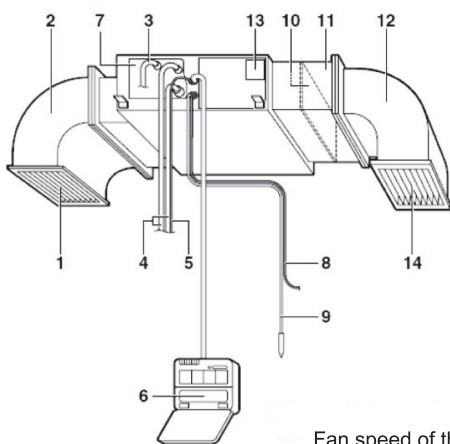
**FOR OPTIONAL USE OF
1.HIGH EFFICIENCY CHAMBER KIT
2.LONG LIFE REPLACEMENT FILTER
CHAMBER KIT.**


Fig.2

Fan speed of this unit
can be selected in 2 stages
(H,L).

**Important information regarding the
refrigerant used**

This product contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Refrigerant type	R410A
GWP ⁽¹⁾ value	1975

⁽¹⁾ GWP = global warming potential

Periodical inspections for refrigerant leaks may be required depending on European or local legislation. Please contact your local dealer for more information.

SAFETY PRECAUTIONS

To gain full advantage of the air conditioner's functions and to avoid malfunction due to mishandling, we recommend that you read this instruction manual carefully before use.

- This air conditioner is classified under "appliances not accessible to the general public".
- The precautions described herein are classified as **WARNING** and **CAUTION**. They both contain important information regarding safety. Be sure to observe all precautions without fail.

⚠ WARNING Failure to follow these instructions properly may result in personal injury or loss of life.

⚠ CAUTION Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

- After reading, keep this manual in a convenient place so that you can refer to it whenever necessary. If the equipment is transferred to a new user, be sure also to hand over the manual.

⚠ WARNING

- **Consult your local dealer about installation work.** Doing the work yourself may result in water leakage, electric shocks or fire hazards.
- **Consult your local dealer regarding modification, repair and maintenance of the air conditioner.** Improper workmanship may result in water leakage, electric shocks or fire hazards.



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- **Beware of fire in case of refrigerant leakage.**

If the air conditioner is not operating correctly, i.e. not generating cool or warm air, refrigerant leakage could be the cause. Consult your dealer for assistance.

The refrigerant within the air conditioner is safe and normally does not leak. However, in the event of a leakage, contact with a naked burner, heater or cooker may result in generation of noxious gas.

Do not longer use the air conditioner until a qualified service person confirms that the leakage has been repaired.

- **Consult your local dealer regarding relocation and reinstallation of the air conditioner.**

Improper installation work may result in leakage, electric shocks or fire hazards.

CAUTION

- **Do not place objects in direct proximity of the outdoor unit and do not let leaves and other debris accumulate around the unit.**

Leaves are a hotbed for small animals which can enter the unit. Once in the unit, such animals can cause malfunctions, smoke or fire when making contact with electrical parts.

- **Do not allow a child to mount on the outdoor unit or avoid placing any object on it.**

Falling or tumbling may result in injury.

- **The appliance is not intended for use by unattended young children or infirm persons.**

Impairment of bodily functions and harm to health may result.

- **Children should be supervised to ensure that they do not play with the unit or its remote controller.**

Accidental operation by a child may occur impairment of bodily functions and harm health.

- **Do not let children play on or around the outdoor unit.**

If they touch the unit carelessly, injury may occur.

- **Do not block air inlets nor outlets.**

Impaired air flow may occur in insufficient performance or trouble.

NAME OF PARTS

Refer to figure 1 & 2 on page [13]

1. Air outlet (Field supply)
2. Exhaust duct (Field supply)
3. Drain pipe
4. Connection piping
5. Transmission wiring
6. Remote controller (Sold separately)
7. Drain discharge device (built-in)
Discharges indoor moisture removed during cooling operation.
8. Power line
9. Grounding wire
This wire releases electricity from the indoor unit to the ground in order to prevent electric shock or fire.
10. Air filter (inside filter chamber) (Sold separately)
11. Suction filter chamber (Sold separately)
12. Suction duct (Field supply)
13. Machine nameplate
The nameplate is imprinted with the machine name and specifications.
14. Suction grille (Field supply)
15. Air Filter

MAINTENANCE



WARNING

- **Only a qualified person is allowed to perform maintenance except daily maintenance.**
- **Before touching any of connection wirings, be sure to turn off all power supply switches.**
- **Do not use flammable materials (e.g., hairspray or insecticide) near the product.**
Do not clean the product with organic solvents such as paint thinner.

The use of organic solvents may cause crack damage to the product, electric shocks, or fire.

- **Contact professional personnel about attachment of accessories and be sure to use only accessories specified by the manufacturer.**

If a defect results from your own workmanship, it may result in water leaks, electric shock or fire.

- **Consult your dealer regarding cleaning the inside of the air conditioner.**

Improper cleaning may cause breakage of plastic parts, water leakage and other damage as well as electric shocks.



WARNING

- **Before cleaning, be sure to stop unit operation, turn the breaker off or remove the power cord.** Otherwise, an electric shock and injury may occur.
- **Do not wash the air conditioner with water, as this may result in electric shocks or fire.**
- **Watch your steps at the time of air filter cleaning or inspection.**
High-place work is required, to which utmost attention must be paid.
If the scaffold is unstable, you may fall or topple down, thus causing injury.

HOW TO CLEAN THE AIR FILTER

(The air filter is an optional accessory.)

1. **Clean the air filter when the display shows  " (TIME TO CLEAN AIR FILTER)."**
 - This message is displayed once the unit has operated for a certain amount of time.
 - Always clean the air filter at the beginning of the heating or cooling season.
(Dust and dirt in the air filter reduce airflow, lowering the unit's capacity.)
 - Clean the air filter more frequently when using the unit in a dirty environment.

NOTES

- Do not remove the air filter for other than cleaning purposes.
Doing so may cause damage to the unit.
(The unit does not include an air filter as standard equipment.)
- Do not install any object other than a proper air filter in the suction inlet (for example, a paper towel). Doing so may result in degraded performance and cause freezing or water leakage.



2. Press the **FILTER SIGN RESET BUTTON** of the remote controller after the air filter is cleaned and attached.

The “” (TIME TO CLEAN AIR FILTER) display turns OFF.

Refer to the operation manual provided with the outdoor unit for the positions of the “” (TIME TO CLEAN AIR FILTER) display and FILTER SIGN RESET BUTTON.

HOW TO CLEAN AIR OUTLET AND OUTSIDE PANELS (Field supply)

1. Clean with soft cloth.
2. When it is difficult to remove stains, use water or neutral detergent.

NOTE

- Do not use gasoline, benzene, thinner, polishing powder, liquid insecticide. It may cause discoloring or warping.
- Do not let the indoor unit get wet. It may cause an electric shock or a fire.
- Do not use hot water of 50°C or higher, as doing so may result in discoloration or deformation.

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DAIKIN Service Call Center

Toll free 1800-102-9300 (All Mobile/Landline)

1800-22-9300 (MTNL/BSNL)

Warning

- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

VRV is a trade mark of Daikin Industries, Ltd.

VRV Air Conditioning System is the world's first individual air conditioning system with variable refrigerant flow control and was commercialised by Daikin in 1982.

VRV is the trade mark of Daikin Industries, Ltd., which is derived from the technology we call "variable refrigerant volume."