

VRV SYSTEM Inverter Air Conditioners

English

Deutsch

Français

Español

Italiano

Ελληνικά

Nederlands

Portugues

Русский

中文
(繁體)中文
(简体)

MODELS

Ceiling-mounted cassette type (corner model)

FXKQ25MVE	FXKQ25MAVE
FXKQ32MVE	FXKQ32MAVE
FXKQ40MVE	FXKQ40MAVE
FXKQ63MVE	FXKQ63MAVE

READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION.
KEEP THIS MANUAL IN A HANDY PLACE FOR FUTURE REFERENCE.

LESEN SIE DIESE ANWEISUNGEN VOR DER INSTALLATION SORGFÄLTIG DURCH.
BEWAHREN SIE DIESE ANLEITUNG FÜR SPÄTERE BEZUGNAHME GRIFFBEREIT AUF.

LIRE SOIGNEUSEMENT CES INSTRUCTIONS AVANT L'INSTALLATION.
CONSERVER CE MANUEL A PORTEE DE MAIN POUR REFERENCE ULTERIEURE.

LEA CUIDADOSAMENTE ESTAS INSTRUCCIONES ANTES DE INSTALAR.
GUARDE ESTE MANUAL EN UN LUGAR A MANO PARA LEER EN CASO DE TENER
ALGUNA DUDA.

PRIMA DELL'INSTALLAZIONE LEGGERE ATTENTAMENTE QUESTE ISTRUZIONI.
TENERE QUESTO MANUALE A PORTATA DI MANO PER RIFERIMENTI FUTURI.

ΔΙΑΒΑΣΤΕ ΠΡΟΣΕΚΤΙΚΑ ΑΥΤΕΣ ΤΙΣ ΟΔΗΓΙΕΣ ΠΡΙΝ ΑΠΟ ΤΗΝ ΕΓΚΑΤΑΣΤΑΣΗ ΕΧΕΤΕ ΑΥΤΟ
ΤΟ ΕΓΧΕΙΡΙΔΙΟ ΕΥΚΑΙΡΟ ΓΙΑ ΝΑ ΤΟ ΣΥΜΒΟΥΛΕΥΕΣΤΕ ΣΤΟ ΜΕΛΛΟΝ.

LEES DEZE INSTRUCTIES ZORGVULDIG DOOR VOOR INSTALLATIE. BEWAAR DEZE HAN-
DLEINDING WAAR U HEM KUNT TERUGVINDEN VOOR LATERE NASLAG.

LEIA COM ATENÇÃO ESTAS INSTRUÇÕES ANTES DE REALIZAR A INSTALAÇÃO.
MANTENHA ESTE MANUAL AO SEU ALCANCE PARA FUTURAS CONSULTAS.

ПЕРЕД НАЧАЛОМ МОНТАЖА ВНИМАТЕЛЬНО ОЗНАКОМЬТЕСЬ С ДАННЫМИ
ИНСТРУКЦИЯМИ. СОХРАНИТЕ ДАННОЕ РУКОВОДСТВО В МЕСТЕ, УДОБНОМ ДЛЯ
ОБРАЩЕНИЯ В БУДУЩЕМ.

安裝前務必仔細閱讀此安裝說明書，閱後妥善保存，以便隨時參看。

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CE - DECLARATION-OF-CONFORMITY
CE - KONFORMITÄTSSERKLÄRUNG
CE - DECLARATION-DE CONFORMITE
CE - CONFORMITÄTSSERKLÄRUNG

CE - DECLARACION-DE CONFORMIDAD
CE - DICHLARAZIONE-DE CONFORMITA
CE - ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ

CE - DECLARAZIONE-DE CONFORMITÀ
CE - ЗАЯВЛЕНИЕ-О-СОТВЕТСТВИИ
CE - OPFYLDELSESERKLÆRING
CE - FÖRSÄKRAN-OM-ÖVERENSSTÄMMELSE

CE - ERKLÆRING OM-SAMSVAR
CE - ILMOITUS-YHDENMUKAISUUDESTA
CE - DEKLARACJA-ZGODNOŚCI
CE - DECLARAȚIE-DE-CONFORMITATE

CE - IZJAVA O SKLADNOSTI
CE - VASTAVUSDEKLARATSIOON
CE - АТТИΚΙΤΗΣ-ΔΕΚΛΑΡΑCΙΑ
CE - VYHLÁSENIE-ZHODY
CE - UYUMLULUK-BİLDİRİSİ

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DAIKIN INDUSTRIES, LTD.

- 01 (en) declares under its sole responsibility that the air conditioning models to which this declaration relates:
02 (d) erklärt auf seine alleinige Verantwortung daß die Modelle der Klimaanlage für die diese Erklärung bestimmt ist:
03 (e) déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclaration ont:
04 (nl) verklaart hierop op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft:
05 (e) declara bajo su única responsabilidad que los modelos de aire acondicionado a los cuales hace referencia la declaración:
06 (i) dichiara sotto sua responsabilità che i condizionatori modello a cui è riferita questa dichiarazione:
07 (en) δηλώνει με αποκλειστική της ευθύνη ότι το ποσό των κλιματικών συσκευών στα οποία αναφέρεται η παρούσα δήλωση:
08 (p) declara sob sua exclusiva responsabilidade que os modelos de ar condicionado a que esta declaração se refere:
09 (en) заявляет, исключивтельно под своим ответственностью, что модели кондиционеров воздуха, к которым относится настоящее заявление:

FXZ020MVE, FXZ025MVE, FXZ032MVE, FXZ040MVE, FXZ050MVE
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FXH032MVE, FXH063MVE, FXH0100MVE
FXS020MVE, FXS025MVE, FXS032MVE, FXS040MVE, FXS050MVE, FXS063MVE, FXS080MVE, FXS0100MVE, FXS0125MVE

01 are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our instructions:
02 (en) gemäß folgenden Norm(en) oder einem anderen Normdokument oder -dokumenten entspricht/entsprechen, unter der Voraussetzung, daß sie gemäß unseren Anweisungen eingesetzt werden:

03 sont conformes à la(s) norme(s) ou autre(s) document(s) normatif(s), pour autant qu'ils soient utilisés conformément à nos instructions:
04 conformi de volgende norm(en) of één of meer andere bindende documenten zijn, op voorwaarde dat ze worden gebruikt overeenkomstig onze instructies:
05 están en conformidad con la(s) siguiente(s) norma(s) u otro(s) documento(s) normativo(s), siempre que sean utilizados de acuerdo con nuestras instrucciones:
06 sono conformi all(i) seguente(i) standard(s) o altro(i) document(o) a carattere normativo, a patto che vengano usati in conformità alle nostre istruzioni:
07 avia oshuyeno vo to(i) oboilovoboi(i) prototipo(i) ti dlyo syyvolpoy(i) konovnyyev, untyo tnyu prototipo(i) ot yepuqnotooyvtra oshuyeno vo ty otobnyey yac:

EN60335-2-40,

- 10 under the provisions of:
11 enligt villkoren i:
03 conformément aux stipulations des:
04 overeenkomstig de bepalingen van:
05 siguiendo las disposiciones de:
06 secondo le prescrizioni per:
07 me tnyon tyu d'otobnyev tyu:
08 de acordo com o previsto em:
09 в соответствии с положениями:

01 * as set out in <A> and judged positively by according to the Certificate <C>.

02 * wie in der <A> aufgeführt und von positiv beurteilt gemäß Zertifikat <C>.

03 * lai, ko dēfīnī dāns <A> at šalvāli pozitīviem par konformitāti ar Certificat <C>.

04 * zoals vermeld in <A> en positief beoordeeld door overeenkomstig Certificat <C>.

05 * como se establece en <A> y es valorado positivamente por de acuerdo con el Certificado <C>.

06 * delimito nei <A> e giudicato positivamente da secondo il Certificato <C>.

07 * как оговорено в <A> и признано таковы от согласно ис. тв. протокола <C>.

08 * tal como estabelecido em <A> e como o parecer positivo de de acordo com o Certificado <C>.

09 * как указано в <A> и в соответствии с протоколом эксперта согласно Сертификату <C>.

10 (en) erklærer under enensvar, at klimaanlægsmodelerne, som denne deklaration vedrører:
11 (e) deklarerar i egenskap av huvudsvarare, att luftkonditioneringsmodellerna som berörs av denna deklaration innebär att:
12 (nl) verklaart het volledige antwoord op de af luchtconditioneringsmodellen som betreffen de deze verklaring inbevatert dat:
13 (en) ilmoittaa yksinomaan omalla vastuullaan, että tämän ilmoituksen tarkoituksena on ilmoittaa ilmastointilaitteen mallit:
14 (e) declara bajo su única responsabilidad, que los modelos de climatizacoe, k nimz se bto prohlášení vztahuje:
15 (en) izjavlja pod isključivo vlastitom odgovornošću da su modeli klima uređaja na koje se ova izjava odnosi:
16 (en) δηλώνει με αποκλειστική του ευθύνη, ήτοι ή κλιμαβενδίδες μολέλε, μελεκερε ή νηλκωζοι νωλοκωζκ:
17 (p) declara na własną i wyłączną odpowiedzialność, że modele klimatyzatorów, których dotyczy niniejsza deklaracja:
18 (en) declarat pe proprie răspundere că aparatele de aer condiționat la care se referă această declarație:

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01 Directives, as amended.
02 Direktiven, gemäß Änderung.
03 Directives, telles que modifiées.
04 Richtlijnen, zoals gewijzigd.
05 Directivas, según lo emendado.
06 Direktive, come da modifica.
07 Dnyuvy, otlyc s'yov' t'potozop'elē.
08 Directivas, conforme alteração em.
09 Директиве, со всеми поправками.

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19 (en) z vso odgovornosti izjavlja, da so modeli klimatiskih naprav, na katere se izjava nanaša:
20 (en) kinnitab oma täieliku vastuluse, et käesoleva deklaratsiooni alla kuuluvad kliimaseadmete mudelid:
21 (en) deklarerar på eget ansvar, at modelerne til klimatiske installationer, som berøres af denne erklæring omfatter:
22 (nl) verklaart hierop op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft:
23 (e) declara bajo su única responsabilidad que los modelos de aire acondicionado a los cuales hace referencia la declaración:
24 (i) dichiara sotto sua responsabilità che i condizionatori modello a cui è riferita questa dichiarazione:
25 (en) δηλώνει με αποκλειστική της ευθύνη ότι το ποσό των κλιματικών συσκευών στα οποία αναφέρεται η παρούσα δήλωση:
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16 megféleleik az alábbi szabvány(ok)nak vagy egyéb irányadó dokumentum(ok)nak, ha azokat előírás szerinti használat.
17 spelnaja wymogi następujących norm i innych dokumentów normalizacyjnych, pod warunkiem że używane są zgodnie z naszymi instrukcjami.
18 sunt în conformitate cu următoari (următoare) standard(e) sau al(e) document(e) normativ(e), cu condiția ca acestea să fie utilizate în conformitate cu instrucțiunile noastre.
19 skloidi z naslednjimi standardi in drugimi normativi, pod pogojem, da se uporabljajo v skladu z našimi navodili.
20 on vastavusse jätgnis(e) standardite(j)ga või teiste normatiivse dokumentidega, kui need kasutatakse vastavalt meie juhendile.
21 соответствует на следующие стандарты или други нормативные документы, при условии, что се използват съгласно нашите инструкции.
22 alitika žemai nurodyti(s) standartus ir (arba) kitus norminius dokumentus su sąlyga, kad yra naudojami pagal mūsų nurobimus.
23 tal, ja leitai abielotus izdojotus norādījumus, abist sekopātais standāriem un citiem normatīviem dokumentiem.
24 sil v zhoče s nasledovny(m)i normativni(m) ablo inými normativny(m)i dokumentovni(m), za predpoklad, že sa používajú v súlade s našimi navodmi.
25 urúnun, talimatarmıza göre kullanılması koşulluyla aşağıdaki standartlar ve norm beirten belgelerle uyumludur:

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Shinri Sada
Manager Quality Control Department
1st of May 2009

DAIKIN INDUSTRIES, LTD.
Umeda Center Bldg., 2-4-12, Nakazaki-Nishi,
Kita-ku, Osaka, 530-8323 Japan

<A>	DAIKIN.TCF.022E1/1/0-2007
	TÜV Rheinland EPS B.V.
<C>	0305020101

01 Directives, as amended.
02 Direktiven, gemäß Änderung.
03 Directives, telles que modifiées.
04 Richtlijnen, zoals gewijzigd.
05 Directivas, según lo emendado.
06 Direktive, come da modifica.
07 Dnyuvy, otlyc s'yov' t'potozop'elē.
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1. SAFETY PRECAUTIONS

Please read these “SAFETY PRECAUTIONS” carefully before installing air conditioning unit and be sure to install it correctly. After completing installation, conduct a trial operation to check for faults and explain to the customer how to operate the air conditioner and take care of it with the aid of the operation manual. Ask the customer to store the installation manual along with the operation manual for future reference.

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

Safety Precaution

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.

Meaning of WARNING and CAUTION notices

⚠ 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.

⚠ 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.
- Consult your local dealer regarding what to do in case of refrigerant leakage. When the air conditioner is to be installed in a small room, it is necessary to take proper measures so that the amount of any leaked refrigerant does not exceed the concentration limit in the event of a leakage. Otherwise, this may lead to an accident due to oxygen depletion.
- 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. A foundation of insufficient strength may result in the equipment falling and causing injury.

- Carry out the specified installation work after taking into account strong winds, typhoons or earthquakes. Failure to do so during installation work may result in the unit falling and causing accidents.
- Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel according to local laws and regulations and this installation manual. An insufficient power supply capacity or improper electrical construction may lead to electric shocks or fire.
- Make sure that all wiring is secured, the specified wires are used, and that there is no strain on the terminal connections or wires. Improper connections or securing of wires may result in abnormal heat build-up or fire.
- When wiring the power supply and connecting the remote controller wiring and transmission wiring, position the wires so that the electric parts box lid can be securely fastened. Improper positioning of the electric parts 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.
- Be sure to switch off the unit before touching any electrical parts.
- 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.

⚠ CAUTION

- While following the instructions in this installation manual, install drain piping to ensure proper drainage and insulate piping 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.)
- Remote controller (wireless kit) transmitting distance can be shorter than expected in rooms with electronic fluorescent lamps (inverter or rapid start types). Install the indoor unit as far away from fluorescent lamps as possible.
- 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 will deteriorate, parts may fall off and water leakage could result.
 2. Where corrosive gas, such as sulphurous acid gas, is produced. Corroding of copper pipes or soldered parts may result in refrigerant leakage.
 3. Near machinery emitting electromagnetic radiation. Electromagnetic radiation may disturb the operation of the control system and result in a malfunction of the unit.

4. Where flammable gas may leak, where there is carbon fibre or ignitable dust 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.

2. BEFORE INSTALLATION


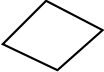

- When moving the unit while removing it from the carton box, be sure to lift it by holding on to the four lifting lugs without exerting any pressure on other parts, especially, the refrigerant piping, drain piping, and other resin parts.
- Be sure to check the type of R410A refrigerant to be used before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

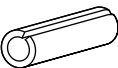


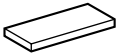
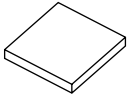
2-1 PRECAUTIONS



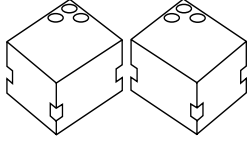
- Be sure to read this manual before installing the indoor unit.
- Entrust installation to the place of purchase or a qualified serviceman. Improper installation could lead to leaks and, in worse cases, electric shock or fire.
- Use only parts provided with the unit or parts satisfying required specifications. Unspecified parts could cause the unit to fall out of place, or could lead to leaks and, in worse cases, electric shock or fire.

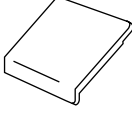
2-2 ACCESSORIES

Check the following accessories are included with your unit.

Name	Metal clamp	Paper pattern for installation	Drain hose
Quantity	1pc.	1 pc.	1 pc.
Shape		 Corrugated cardboard	

Name	Insulation for fitting	Sealing pad	Insulation for hanger bracket
Quantity	1 each.	1 each.	4 pcs.
Shape	For gas pipe  For liquid pipe 	Large  Small 	

Name	Washer for hanging bracket	Clamp	Positioning jig for installation
Quantity	8 pcs.	8 pcs.	2 each.
Shape			 4 screws

Name	Air outlet blocking pad	(Other)
Quantity	1 pc.	• Operation manual • Installation manual
Shape		

- Screws for fixing panels are attached to decoration panel.

2-3 OPTIONAL ACCESSORIES

- The optional decoration panel and remote controller are required for this indoor unit. (Refer to Table 1, 2)

Table 1

Model	Min. height above ceiling	Decoration panel
		White
FXKQ25 · 32 · 40M(A)VE	220 mm or more	BYK45FJW1
FXKQ63M(A)VE		BYK71FJW1

- These are two types of remote controllers: wired and wireless. Select a remote controller from the Table 2 according to customer request and install in an appropriate place.

Table 2

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 2 on page 2, 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 unit may drop, vibrate or make noise.	
Is the gas leak test finished?	It may result in insufficient cooling.	
Is the unit fully insulated?	Condensate water may drip.	
Does drainage flow smoothly?	Condensate water may drip.	
Does the power supply voltage correspond to that shown 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 unit safely grounded?	Dangerous at electric 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?	It may result in insufficient cooling.	
Are refrigerant piping length and additional refrigerant charge noted down?	The refrigerant charge in the system is not clear.	

b. Items to be checked at time of delivery
Also review the "SAFETY PRECAUTIONS"

Items to be checked	Check
Did you explain about operations while showing the instruction manual to your customer?	
Did you hand the instruction manual over to your 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 THE 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

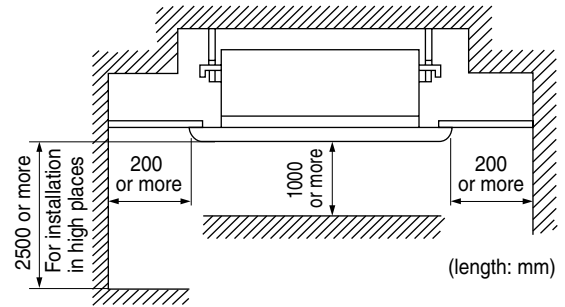
Please attach additional thermal insulation material to the unit body when it is believed that the relative humidity in the ceiling exceeds 80%. Use glass wool, polyethylene foam, or similar with a thickness of 10 mm or more as thermal insulation material.

- (1) Select an installation site where the following conditions are satisfied and that meets with your customer's approval.
- 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 air passage.
 - Where condensate can be properly drained.
 - Where the ceiling is strong enough to bear the indoor unit weight.
 - Where the false ceiling is not noticeably on an incline.

- Where sufficient clearance for installation and maintenance can be ensured.
- Where there is no risk of flammable gas leakage.
- Where piping between indoor and outdoor units is possible within the allowable limit. (Refer to the installation manual for 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.)

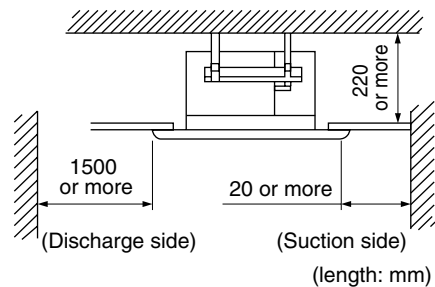


(2) Ceiling height

- Install this unit where the height of bottom panel is more than 2.5 m so that the user cannot easily touch.
- This unit can be installed in ceilings up to 3.8 meters high. If the ceiling height exceeds 2.7 meters, however, the connector of terminal board (A2P) must be replaced and an air outlet blocking pad must be installed. Refer to **HIGH CEILING INSTALLATION (P.9)**.

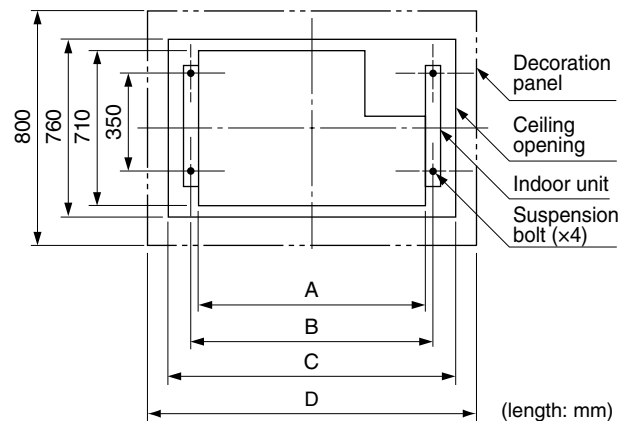
(3) Use suspension bolts for installation. Check whether the ceiling is strong enough to support the weight of the unit or not. If there is a risk, reinforce the ceiling before installing the unit.

(Installation pitch is made on the paper pattern for installation. Refer to it to check for points requiring reinforcing.)



4. PREPARATIONS BEFORE INSTALLATION

(1) Relation of ceiling opening to suspension bolt position

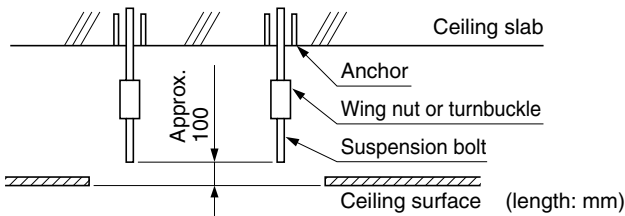


Model	A	B	C	D
FXKQ25 · 32 · 40M(A)VE	1110	1150	1200	1240
FXKQ63M(A)VE	1310	1350	1400	1440

(2) Open a hole in the ceiling for installation. (Case of existing ceiling)

- Use the paper pattern for installation which has been adjusted to the dimensions of the ceiling opening.
- Open a hole in the ceiling for installation at the place the unit is to be installed, and run refrigerant and drain piping, remote controller cord, and outdoor/indoor transmission wiring to the unit's piping and wiring hole. (For wiring procedure, refer to "WIRING EXAMPLE AND HOW TO SET THE REMOTE CONTROLLER." For piping procedure, refer to the attached installation manual of the outdoor unit.)
- After opening a hole in the ceiling, reinforcement of the ceiling frame, etc., may be required to maintain the levelness of the ceiling and to prevent vibration of the ceiling. For details, consult with your builder and interior contractor.

(Set-up example)



Note) All the above parts are field supplied.

(3) Install the suspension bolts.

(Use M8 size suspension bolts.)

Use anchors for existing ceilings and embedded inserts, embedded anchors, etc., for newly built ceilings so that the weight of the unit can be supported. Adjust the length of the bolts to the ceiling before installing the unit.

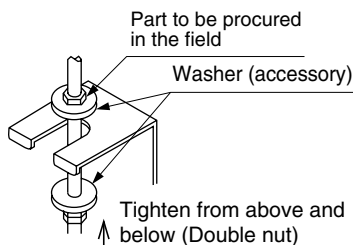
5. INDOOR UNIT INSTALLATION

Installing optional accessories (except for the decoration panel) 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) Install the unit temporarily.

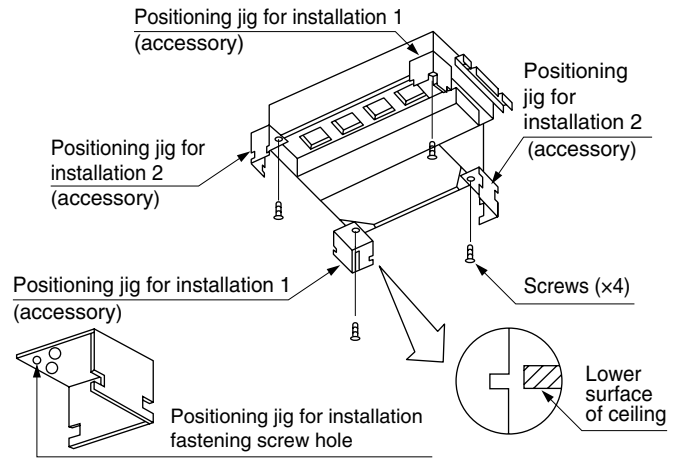
- Fix the hanger bracket to the suspension bolt. Tighten both upper and lower nuts firmly using washers.



(2) Using the attached positioning jig for installation, adjust the height of the unit.

(3) Adjust the unit to the correct position based on "SELECTING INSTALLATION SITE." (1).

- The positioning jig for installation and paper pattern for installation have been adjusted to the dimensions of the ceiling opening. Be sure to establish thorough communication with those who are to do the ceiling work.

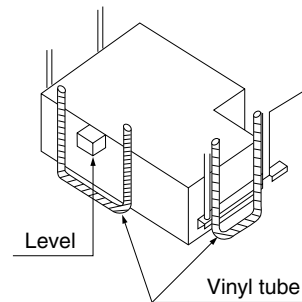


(4) Check the unit is horizontally level.

CAUTION

The unit is equipped with a built-in drain pump and float switch. Level the four corners with a level or a vinyl tube containing water.

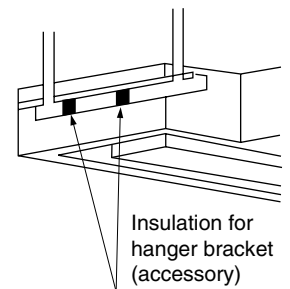
(If the unit is tilted against condensate flow, the float switch may malfunction and cause water to drip.)



(5) Tighten the upper nut.

(6) Apply the insulation for hanger bracket to the hanger bracket installation bolts of the units.

(4 locations). (See figure on right.)



(7) After setting up the unit, be sure to remove the positioning jig for installation.

NOTE

- For a newly built ceiling, carry out the same procedure and be sure to establish thorough communication with those who are to do the ceiling work. The positioning jig for installation and paper pattern for installation have been adjusted to the dimensions of the ceiling opening.

6. REFRIGERANT PIPING WORK

(For refrigerant piping of outdoor units, see the installation manual attached to the outdoor unit.)

(Execute heat insulation work completely on both sides of the gas piping and the liquid piping. Otherwise, a water leakage can result sometimes.)

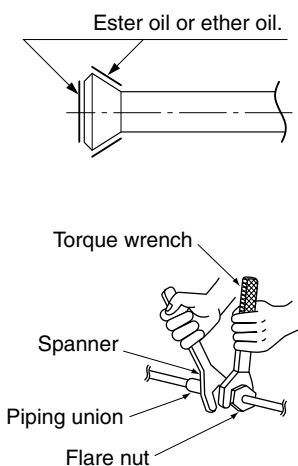
(When using a heat pump, the temperature of the gas piping can reach up to approximately 120°C, so use insulation which is sufficiently resistant.)

⟨Also, in cases where the temperature and humidity of the refrigerant piping sections might exceed 30°C or RH80 %, reinforce the refrigerant insulation. (20 mm or thicker) Condensation may form on the surface of the insulating material.⟩
 ⟨Before ringging tubes, check which type of refrigerant is used. Proper operation is not possible if the types of refrigerant are not the same.⟩

— **CAUTION** —

- Use a pipe cutter and flare suitable for the type of refrigerant.
- Apply ester oil or ether oil around the flare portions before connecting.
- To prevent dust, moisture or other foreign matter from infiltrating the tube, either pinch the end or cover it with tape.
- Do not allow anything other than the designated refrigerant to get mixed into the freezing cycle, such as air, etc. If any refrigerant gas leaks while working on the unit, ventilate the room thoroughly right away.

- The outdoor unit is charged with refrigerant.
- Be sure to use both a spanner and torque wrench together, as shown in the drawing, when connecting or disconnecting pipes to/from the unit.
- Refer to the Table 3 for the dimensionons of flare not spaces.
- When connecting the flare nut, coat the flare section (both inside and outside) with ester oil or ether oil, rotate three or four times first, then screw in.
- Refer to the Table 3 for tightening torque. Overtightening may damage the flare.
- Check the pipe connector for gas leaks, then insulate it as shown in the drawing.
- Wrap only the gas line side with the sealing pad. Bend the pad over the insulation for fitting (union) from above.



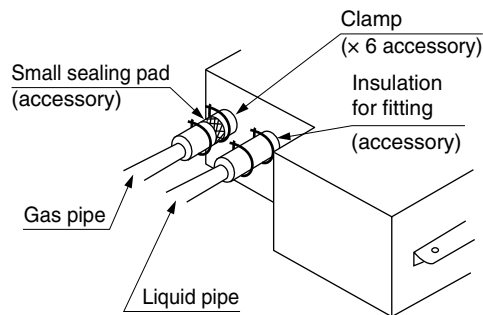
— **CAUTION** —

Over-tightening may damage the flare and cause a refrigerant leakage.

Use “Table 4” as a reference if a torque wrench is not available. Once work is complete, make sure there is no gas leaking. As the flare nut is tightened with the wrench, the torque will suddenly increase. From that position, tighten the nut to the angle shown on “Table 4”.

- Make absolutely sure to execute heat insulation works on the pipe-connecting section after checking gas leakage by thoroughly studying the following figure and using the attached heat insulating materials for fitting. (Fasten both ends with the clamps (accessory).)

- Wrap the sealing pad (accessory) only around the insulation for the joints on the gas piping side.



— **CAUTION** —

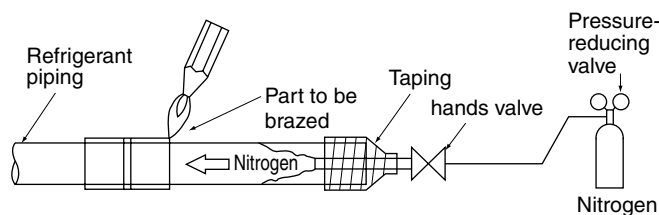
Be sure to insulate any field piping all the way to the piping connection inside the unit. Any exposed piping may cause condensation or burns if touched.

— **CAUTION** —

CAUTION TO BE TAKEN WHEN BRAZING REFRIGERANT PIPING

Do not use flux when brazing refrigerant piping. Therefore, use the phosphor copper brazing filler metal (BCuP-2: JIS Z 3264/ B-Cu93P-710/795: ISO 3677) which does not require flux. (Flux has extremely harmful infuence on refrigerant piping systems. For instance, if the chlorine based flux is used, it will cause pipe corrosion or, in particular, if the flux contains fluorine, it will damage the refrigerant oil.)

- Before brazing local refrigerant piping, nitrogen gas shall be blown through the piping to expel air from the piping. If your brazing is done without nitrogen gas blowing, a large amount of oxide film develops inside the piping, and could cause system malfunction.
- When brazing the refrigerant piping, only begin brazing after having carried out nitrogen substitution or while inserting nitrogen into the refrigerant piping. Once this is done, connect the indoor unit with a flared or a flanged connection.
- Nitrogen should be set to 0.02 MPa with a pressure-reducing valve if brazing while inserting nitrogen into the piping.



NOTE

The flare nuts used must be those included with the main body.

- Refer to Table 3 for tightening torque.

Table 3

Pipe size	Tightening torque	Flare dimensions A (mm)	Flare
φ 6.4 (1/4")	14.2 – 17.2N·m	8.7 – 9.1	
φ 9.5 (3/8")	32.7 – 39.9N·m	12.8 – 13.2	
φ 12.7 (1/2")	49.5 – 60.3N·m	16.2 – 16.6	
φ 15.9 (5/8")	61.8 – 75.4N·m	19.3 – 19.7	

Not recommendable but in case of emergency

You must use a torque wrench but if you are obliged to install the unit without a torque wrench, you may follow the installation method mentioned below.

After the work is finished, make sure to check that there is no gas leak.

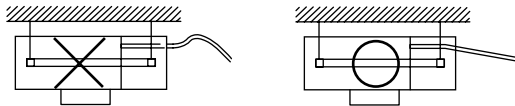
When you keep on tightening the flare nut with a spanner, there is a point where the tightening torque suddenly increases. From that position, further tighten the flare nut the angle shown below:

Table 4

Pipe size	Further tightening angle	Recommended arm length of tool
φ 6.4 (1/4")	60 to 90 degrees	Approx. 150mm
φ 9.5 (3/8")	60 to 90 degrees	Approx. 200mm
φ 12.7 (1/2")	30 to 60 degrees	Approx. 250mm
φ 15.9 (5/8")	30 to 60 degrees	Approx. 300mm

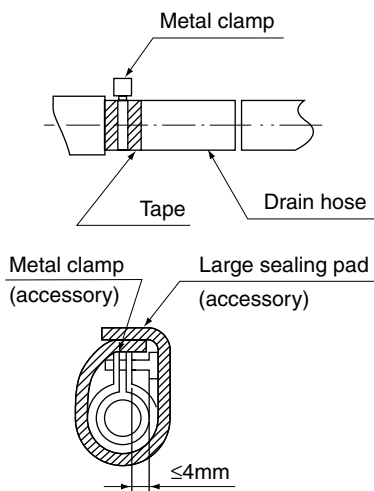
7. DRAIN PIPING WORK

«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.»



(1) Carry out the drain piping

- Keep piping as short as possible and slope it downwards so that air may not remain trapped inside the pipe.
- The diameter of the drain pipe should be greater than or equal to the diameter of the connecting pipe (vinyl tube; pipe size: 25 mm; outer dimension: 32 mm).
- Use the drain hose and metal clamp. Insert the drain hose into the drain socket, up to the white tape. Tighten the metal clamp until the screw head is less than 4 mm from the hose.



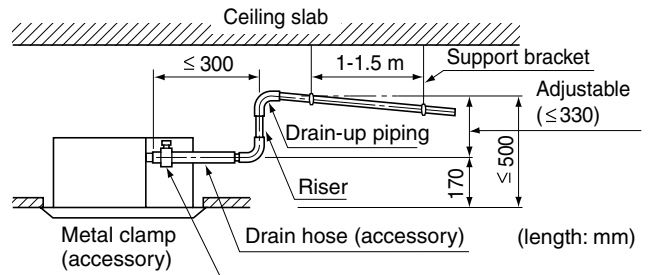
CAUTION

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

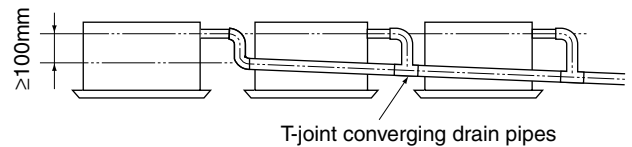
- Wrap the sealing pad over the clamp and drain hose to insulate.
- Insulate the drain hose inside the building. While referring to the figure on the right, insulate the clamp and drain hose with the large sealing pad.
- If the drain hose cannot be sufficiently set on a slope, execute the drain raising piping.
- Secure a downward gradient of 1/100 or more for the drain pipe. To accomplish this, mount supporting brackets at an interval of 1 - 1.5 m.

(Precautions when doing drain-up piping work.)

- Make sure the drain-up piping is at most 330 mm high.
- Stand the drain-up piping horizontally, and make sure it is not further than 300 mm from the base of the drain socket.



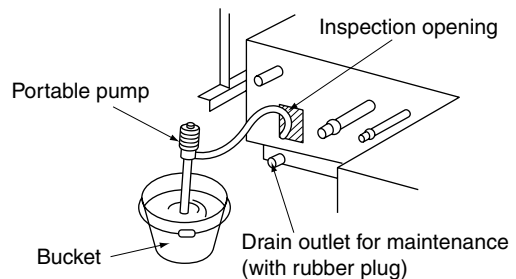
- Use the following outline if laying concentrated drain piping.
- If converging multiple drain pipes, install according to the procedure shown below.



Select converging drain pipes whose gauge is suitable for the operating capacity of the unit.

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

- Open the inspection opening, add approximately 1liter of water slowly into the drain pan and check drainage flow.



NOTE

- Use the drain outlet for maintenance to drain water from the drain pan.






WHEN ELECTRIC WIRING WORK IS FINISHED

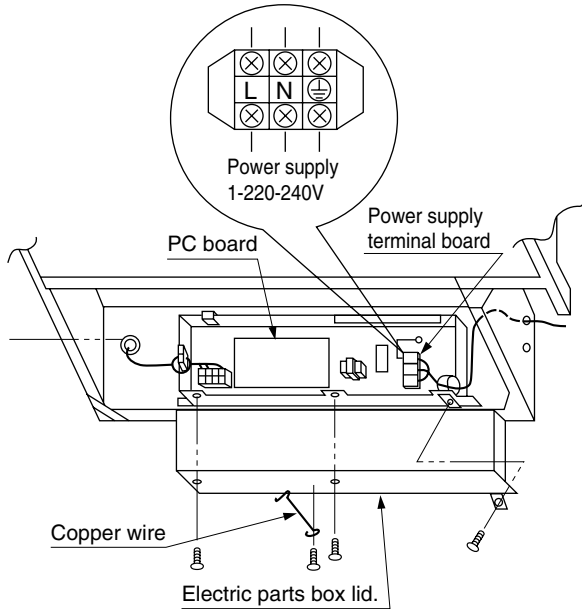
- Check drainage flow during COOL running, explained under "TEST OPERATION".

WHEN ELECTRIC WIRING WORK IS NOT FINISHED

- Remove the electric parts box lid, connect a power supply and remote controller to the terminals. (Refer to the **HOW TO CONNECT WIRINGS (P.7)**)

Be sure attach the electric parts box lid before turning on the power.

Next, press the inspection/test operation button “” on the remote controller. The unit will engage the test operation mode. Press the operation mode selector button “” until selecting FAN OPERATION “”. Then, press the ON/OFF button “”. The indoor unit fan and drain pump will start up. Check that the water has drained from the unit. Press “” to go back to the first mode.



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.
- Keep in mind that it will become the cause of getting drain pipe blocked if water collects on drain pipe.

8. ELECTRIC WIRING WORK

8-1 GENERAL INSTRUCTIONS


- 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 electric parts 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 electric wire 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.
- A circuit breaker capable of shutting down the power supply to the entire system must be installed.

8-2 ELECTRICAL CHARACTERISTICS

Units				Power supply		Fan motor	
Model	Hz	Volts	Voltage range	MCA	MFA	kW	FLA
FXXQ25 · 32M(A)VE	50	220-240	Max. 264 Min. 198	0.3	15	0.015	0.2
FXXQ40M(A)VE				0.3	15	0.020	0.2
FXXQ63M(A)VE				0.5	15	0.045	0.4
FXXQ25 · 32M(A)VE	60	220	Max. 242 Min. 198	0.4	15	0.015	0.3
FXXQ40M(A)VE				0.5	15	0.020	0.4
FXXQ63M(A)VE				0.6	15	0.045	0.5

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

8-3 SPECIFICATIONS FOR FIELD SUPPLIED FUSES AND WIRE

Model	Power supply wiring			Remote controller wiring Transmission wiring	
	Field fuses 	Wire	Size	Wire	Size
FXXQ25 · 32M(A)VE	15A	H05VV-U3G	Wire size must comply with local codes.	Sheathed wire (2 wire)	0.75-1.25 mm ²
FXXQ40M(A)VE					
FXXQ63M(A)VE					

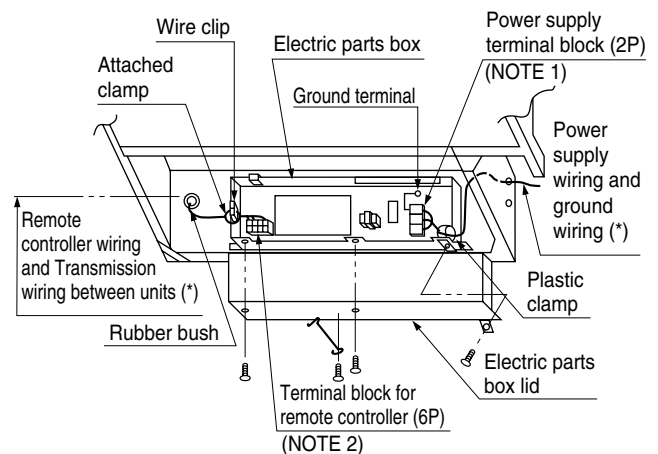
NOTE

1. Allowable length of transmission wiring between indoor/outdoor 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

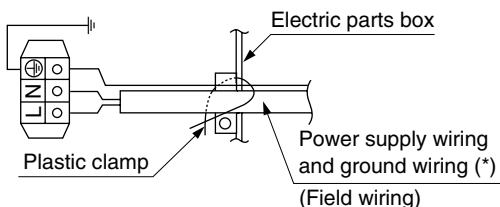
9. WIRING EXAMPLE AND HOW TO SET THE REMOTE CONTROLLER

9-1 HOW TO CONNECT WIRINGS

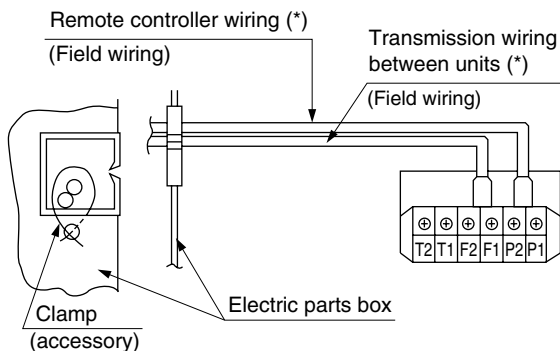
- Refer to the figure below when connecting the remote controller wiring with transmission wiring and power supply wiring.



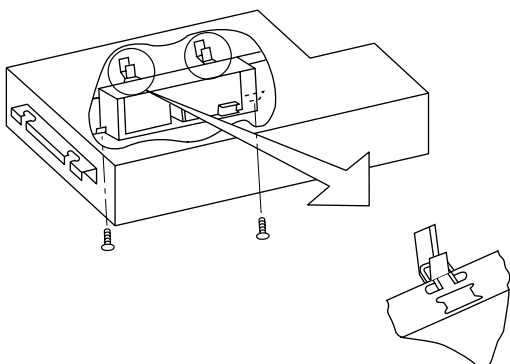
NOTE 1: Details of terminal block for power supply



NOTE 2: Details of terminal block for unit transmission wirings



- You can temporarily hang the electric parts box of the unit from the position shown in the figure below. Use according to the type of work.

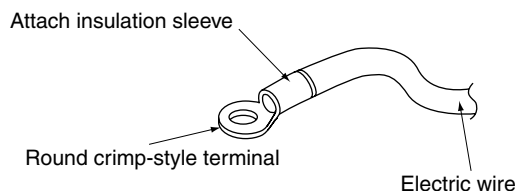


⚠ CAUTION

- 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 electric parts 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 electric parts box lid fits snugly by arranging the wires neatly and attaching the electric parts box lid firmly. When attaching the electric parts 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]

- Use round crimp-style terminals for connecting wires to the power supply terminal board. If unavailable, observe the following points when wiring.
 - Do not connect wires of different gauge to the same power supply terminal. (Looseness in the connection may cause overheating.)
 - Use the specified electric wire. Connect the wire securely to the terminal. Lock the wire down without applying excessive force to the terminal. (Tightening torque: 131N·cm ±10 %)



2. Tightening torque for the terminal screws.

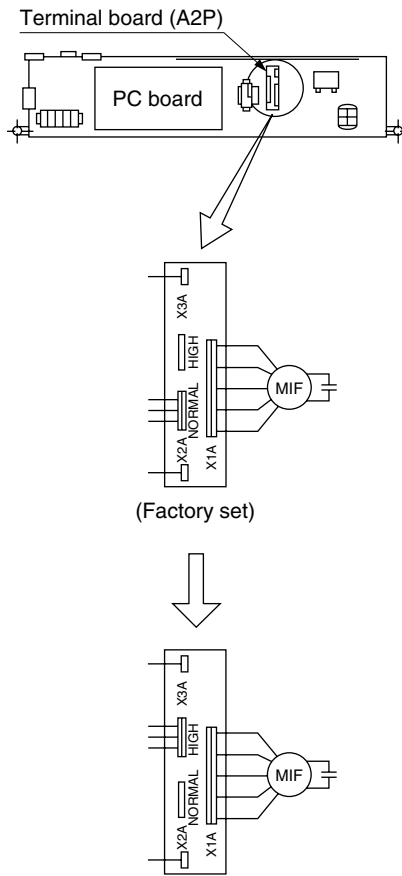
- Use the correct screwdriver for tightening the terminal screws. If the blade of screwdriver is too small, the head of the screw might be damaged, and the screw will not be properly tightened.
- If the terminal screws are tightened too hard, screws might be damaged.
- Refer to the table below for the tightening torque of the terminal screws.

Terminal	Size	Tightening torque
Terminal block for remote controller (6P)	M3.5	0.79 – 0.97N·m
Power supply terminal block (2P)	M4	1.18 – 1.44N·m
Ground terminal	M4	1.44 – 1.94N·m

- Do not connect wires of different gauge to the same grounding terminal. Looseness in the connection may deteriorate protection.
- Out side of the unit, keep transmission wiring at least 50 mm away from power supply wiring. The equipment may malfunction if subjected to electrical (external) noise.
- For remote controller wiring, refer to the “INSTALLATION MANUAL OF REMOTE CONTROLLER” attached to the remote controller.
- Never connect power supply wiring to the terminal block for remote controller wiring. A mistake of the sort could damage the entire system.**
- 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 electric parts box lid. Make sure the lid closes tight. Incomplete connections could result in overheating, and in worse case, electric shock or fire.

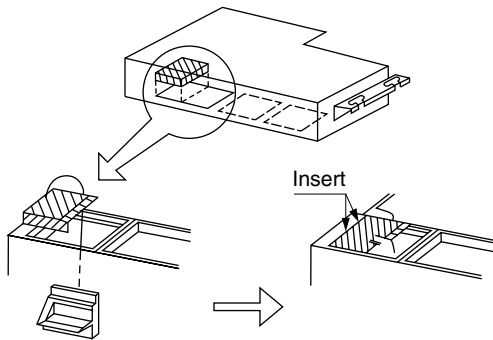
9-2 HIGH CEILING INSTALLATION

- (1) This unit can be installed in ceilings up to 3.8 meters high. If the ceiling height exceeds 2.7 meters, however, connect the connector on the terminal board (A2P) of indoor units as shown in the figure below.



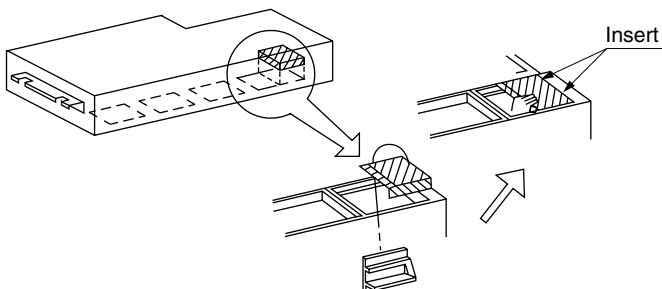
- (2) Match with setting of (1) and apply air outlet blocking pad. For FXKQ25 · 32 · 40M(A)VE

- Apply to the left side drain pan opening (3 locations) as shown in the figure.



For FXKQ63M(A)VE

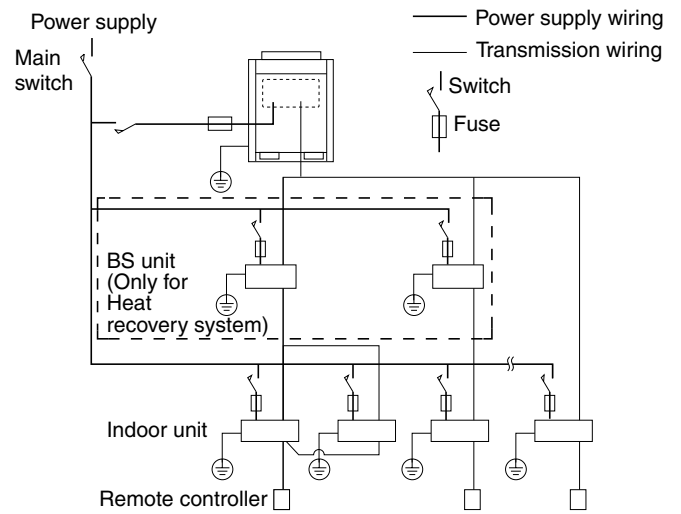
- Apply to the right side drain pan opening (3 locations) as shown in the figure.



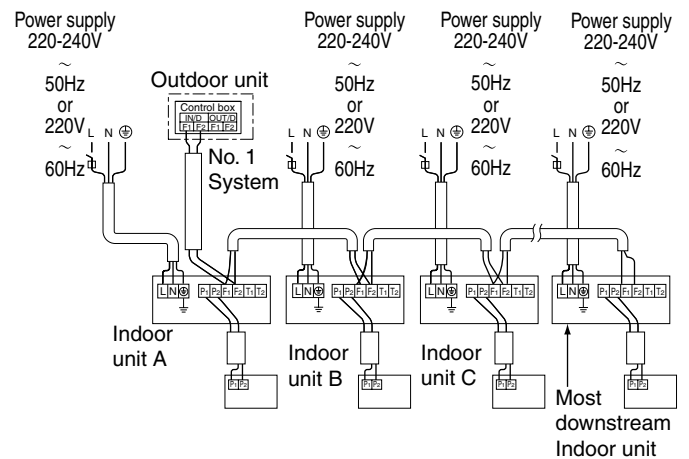
9-3 WIRING EXAMPLE

- 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

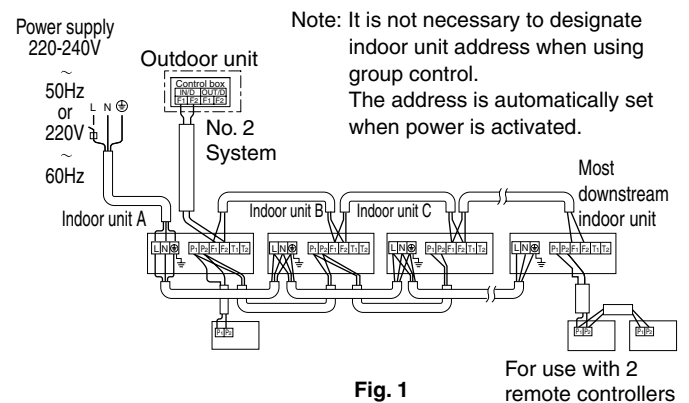
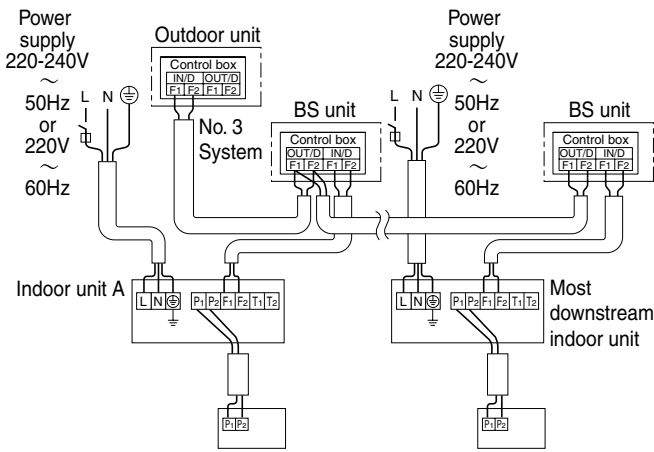


Fig. 1

3. When including BS unit



[PRECAUTIONS]

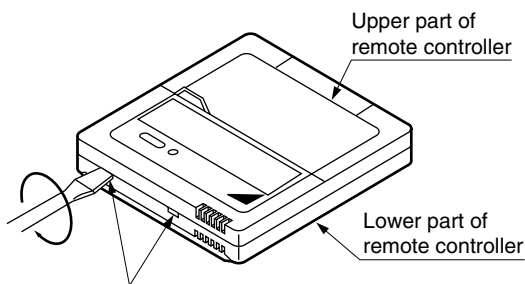
1. A single switch can be used to supply power to units on the same system. However, branch switches and branch circuit breakers must be selected carefully.
2. Do not ground the equipment on gas pipes, water pipes or lightning rods, or crossground with telephones. Improper grounding could result in electric shock.

9-4 CONTROL BY 2 REMOTE CONTROLLERS (Controlling 1 indoor unit by 2 remote controllers)

- When using 2 remote controllers, one must be set to "MAIN" and the other to "SUB".

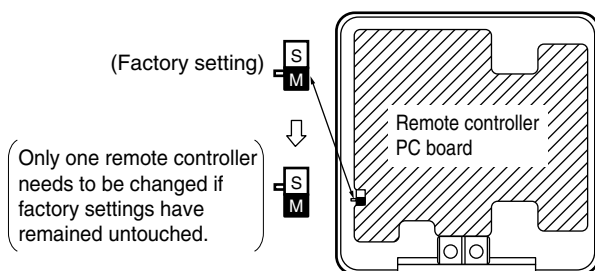
MAIN/SUB CHANGEOVER

- (1) Insert a \ominus screw driver into the recess between the upper and lower part of remote controller and, working from the 2 positions, pry off the upper part. The remote controller PC board is attached to the upper part of remote controller.



Insert the screwdriver here and gently work off the upper part of remote controller.

- (2) Turn the MAIN/SUB changeover switch on one of the two remote controller PC boards to "S". (Leave the switch of the other remote controller set to "M".)

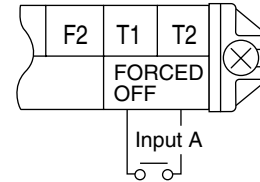


Wiring Method (See "ELECTRIC WIRING WORK")

- (3) Remove the electric parts box lid.
- (4) Add remote control 2 (slave) to the terminal block for remote controller (P₁, P₂) in the electric parts box. (There is no polarity.) (Refer to Fig. 1 and 8-3.)

9-5 COMPUTERISED CONTROL (FORCED OFF AND ON/OFF OPERATION)

- (1) Wire specifications and how to perform wiring
 - Connect 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.

9-6 CENTRALIZED CONTROL

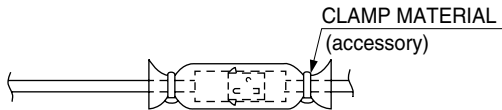
- For centralized control, it is necessary to designate the group No. For details, refer to the manual of each optional controllers for centralized control.

10. DECORATION PANEL INSTALLATION

Refer to the installation manual of the panels.

[PRECAUTIONS]

- **SWING FLAP MOTOR WIRING METHOD**
- (1) CONNECT TWO LEAD WIRES OF SWING FLAP MOTOR MOUNTED ON THE DECORATION PANEL TO THE CONNECTORS OF MAIN BODY.
 - (2) SLIDE THE INSULATION TUBE ACCORDING TO THE ARROW AS SHOWN IN FIG. SO THAT THE CONNECTOR CAN BE COMPLETELY COVERED.
 - (3) BIND THE OPENING OF INSULATION TUBE WITH THE ATTACHED CLAMP MATERIAL.

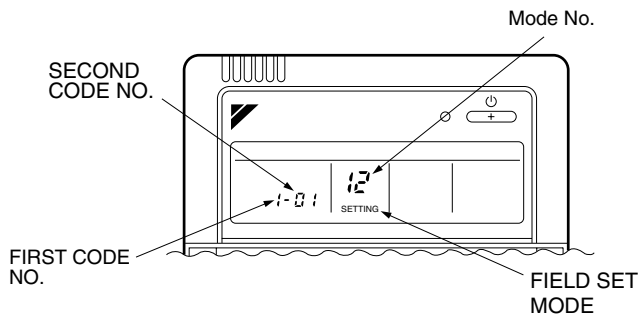


11. FIELD SETTING

Make sure the terminal 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 (switch) No. to “1”. Then set second code (position) No. to “01” for FORCED OFF and “02” for ON/OFF OPERATION. (FORCED OFF at factory set)

12. TEST OPERATION

Refer to the installation manual of the outdoor unit.

- The operation lamp of the remote controller will flash when an 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 indoor unit. If any of the items in Table 5 are displayed, there may be a problem with the wiring or power, so check the wiring again.

Table 5

Remote control display	Content
“Concentrated Management” is lit up	<ul style="list-style-type: none"> • There is a short circuit at the FORCED OFF terminals (T1, T2).
“U4” is lit up “UH” is lit up	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • The power on the indoor unit is off. • The indoor unit has not been wired for power supply. • Incorrect wiring for the remote controller wiring, the transmission wiring, and / or the FORCED OFF wiring.

