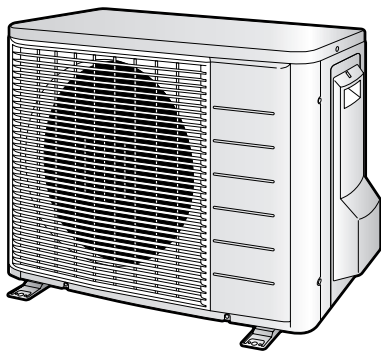


DAIKIN

INSTALLATION MANUAL

R410A Split Series

INVERTER



Models
RXG25K2V1B
RXG35K2V1B

Installation manual R410A Split series	English
Installationsanleitung Split-Baureihe R410A	Deutsch
Manuel d'installation Série split R410A	Français
Montagehandleiding R410A Split-systeem	Nederlands
Manual de instalación Serie Split R410A	Español
Manuale d'installazione Serie Multiambienti R410A	Italiano
Εγχειρίδιο εγκατάστασης διαιρούμενης σειράς R410A	Ελληνικά
Manual de Instalação Série split R410A	Portugues
Руководство по монтажу Серия R410A с раздельной установкой	Русский
Montaj kılavuzları R410A Split serisi	Türkçe

CE - DECLARATION-OF-CONFORMITY
CE - KONFORMITÄTSEKHLÄRUNG
CE - DECLARATION-DE-CONFORMITE
CE - CONFORMITEITSEKHLÄRUNG

CE - DECLARATION-DE-CONFORMIDAD
CE - DICHIARAZIONE-DI-CONFORMITA
CE - ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ

CE - DECLARACÃO-DE-CONFORMIDADE
CE - ЗАРЯВЛЕНИЕ-О-СОТВЕТСТВИИ
CE - OPYJDESEKHLÄRUNG
CE - FÖRSÄKRAN-OM-ÖVERENSTÄMMELSE

CE - ERKHLÆRING OM-SAMSVAR
CE - ILMOTUS-YHDENMUKAISUDESTA
CE - DEKLARACJA-ZGODNOSC
CE - DECLARATIE-DE-CONFORMITATE

CE - IZJAVA O SKLADNOSTI
CE - VASTAVUDEKHLÄRÄTÖÖN
CE - ДЕКЛАРАЦІЯ-ЗА-СЬОТВЕТСТВІЄ

CE - ATTIKTIKIES-DEKLARACIJA
CE - ATBILSTĪBAS-DEKLARACIJA
CE - VYHLÁŠENIE-ZHODY
CE - UYUMILULUK-BILDIRISI

Daikin Industries, Ltd.

- 01 (GB) declares under its sole responsibility that the equipment to which this declaration relates:
02 (D) erklärt auf seine alleinige Verantwortung, dass diese Ausrüstung, für die diese Erklärung bestimmt ist:
03 (F) déclare sous sa seule responsabilité que l'équipement visé par la présente déclaration:
04 (NL) verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de apparatuur waarop deze verklaring betrekking heeft:
05 (E) declara bajo su única responsabilidad que el equipo al que hace referencia la declaración:
06 (I) dichiara sotto la propria responsabilità che gli apparecchi a cui è riferita questa dichiarazione:
07 (GR) δηλώνει με αποκλειστική της ευθύνη ότι ο εξοπλισμός στον οποίο αναφέρεται η παρούσα δήλωση:
08 (P) declara sob sua exclusiva responsabilidade que os equipamentos a que esta declaração se refere:
09 (RU) заявляет, исключительно под своей ответственностью, что оборудование, к которому относится настоящее заявление:

RXG25K2V1B, RXG35K2V1B

- 11 (DK) erklærer som eneansvarlig, at udstyret, som er omfattet af denne erklæring:
12 (N) erklærer i egenkap av hovedansvarlig, at utrustningen som berøres av denne deklarasjon inneharer at:
13 (FIN) ilmoittaa yksinomaan omalla vastuullaan, että tämän ilmoituksen tarkoituksella laiteet:
14 (CZ) prohlašuje ve své plné odpovědnosti, že zařízení, k němuž se tato prohlášení vztahuje:
15 (HR) izjavljuje pod isključivo vlastitom odgovornošću, da oprema na koju se ova izjava odnosi:
16 (H) teljes felelősséggel tudatában kijelenti, hogy az berendezések, melyekre e nyilatkozat vonatkozik:
17 (PL) deklaruje na własną wyłączną odpowiedzialność, że urządzenia, których ta deklaracja dotyczy:
18 (RO) declară pe proprie răspundere că echipamentele la care se referă această declarație:

- 19 (EU) z vso odgovornostjo izjavlja, da je oprema namrav, na katero se izjava nanaša:
20 (EST) kinnitab oma täieliku vastutusega, et käesoleva deklaratsiooni alla kuuluv varustus:
21 (BG) декларира на свой отговорност, че обобщаващото, за което се отнася този декларация:
22 (LT) visiška savo atsakomybę šiekibia, kad įranga, kuriai laikoma ši deklaracija:
23 (LV) ar pilnu atbildību apliecinā, ka tālāk aprakstītais iekārtas, uz kurām attiecas šī deklarācija:
24 (SK) vyhlasuje na vlastnú zodpovednosť, že zariadenie, na ktoré sa vzťahuje toto vyhlásenie:
25 (TB) tanamnen kendi sorumluluğunda olnak üzere bu bilgilirmn ilgili oluđu donanımın aşıđıdaki gibi olduđunu beyan eder:

CE - IZJAVA O USKLAPENOSTI
CE - MEGFELELŐSÉGI-NYILATKOZAT
CE - DEKLARACJA-ZGODNOSC
CE - DECLARATIE-DE-CONFORMITATE

CE - IZJAVA O SKLADNOSTI
CE - VASTAVUDEKHLÄRÄTÖÖN
CE - ДЕКЛАРАЦІЯ-ЗА-СЬОТВЕТСТВІЄ

CE - ATTIKTIKIES-DEKLARACIJA
CE - ATBILSTĪBAS-DEKLARACIJA
CE - VYHLÁŠENIE-ZHODY
CE - UYUMILULUK-BILDIRISI

- 01 is in conformity with the provisions of:
02 (D) entspricht gemäß der von uns gegebenen Instruktionen und Anleitungen verwendet wird.
03 est conforme aux prescriptions de:
04 conform is met de bepalingen van:
05 cumple las disposiciones según:
06 è conforme alle disposizioni di:

- 07 συμμορφώνεται με τις διατάξεις του:
08 está conforme ao articulado em:
09 соответствует положениям:
10 lever op til kravene i:
11 uppfyller bestämmelserna i:
12 er i samsvar med bestemmelserne i:
13 vastaaat seuraavilla vaatimuksilla:
14 yhtyytje podmiinkám ustanoveni:
15 ispunjava slijedeće:
16 megfelel követelőzések jogszabályainak:
17 pozostaje w zgodności z postanowieniami:
18 este în conformitate cu prevederile:
19 is usklađen s odobrobnim, uputnošćima, koje su nam dane u skladu s našim uputama.
20 ispunjava slijedeće:
21 соответствует положениям:
22 allinka nstavlulus rekalamus:
23 atbisi prasibam, kas noteikats:
24 je v znode s ustanovieniami:
25 hukumieli lie uymludur:

- 07 Önyük, (oyükü, onü) 29/12/2009),
08 Directiva (em vigor desde 29/12/2009),
09 Директива (вектрет с 29/12/2009),
10 Direktiv (gældig vanaf 29/12/2009),
11 Direktiv (valdoj desde 29/12/2009),
12 Direktiv (gældig fra 29/12/2009),
13 Direktiv (voimassa 29.12.2009 alkaen),
14 Sméncia (vrijad od 29/12/2009),
15 Direktiva (prihaja od 29/12/2009),
16 Įrašys (įsigalioja 2009.12.29),
17 Dyrektywa (ważna od dnia 29/12/2009),
18 Direktiva (vaidabā dn 29/12/2009),
19 pod pogolem, da se oprema upovablja v skladu z našimi navodili.
20 ku vanususti kasutakse vastavalt meie juhenditele.
21 при поповенне, че обобщащото се в отговора е нашите инструкции.
22 su sąlyga, kad įrankis naudojamas pagal pateiktas instrukcijas.
23 ar nosacījumu, ka iekārta tiek lietota saskaņā ar mūsu instrukcijām.
24 Smernice (platna od 29.12.2009),
25 ekpmanim talimatarmz dođrullusundā kulanimasi koşuluya.

- 13 sedlytřen, etå lættestoa kårteåån ojektømme mukåsesti.
14 za prepòkladu, že zařizení je použiváno v souladu s našimi pokyny.
15 da se oprema koristi u skladu s našim uputama.
16 ta a beendesez az elõírásokrak megfelelően hasznolják.
17 pod varunkiem ekspoziczi urażdzania zgodnie z treścią instrukcji.
18 cu condiția ca echipamentul să fie utilizat în conformitate cu instrucțiunile noastre.

- 19 pod pogolem, da se oprema upovablja v skladu z našimi navodili.
20 ku vanususti kasutakse vastavalt meie juhenditele.
21 при поповенне, че обобщащото се в отговора е нашите инструкции.
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24 Smernice (platna od 29.12.2009),
25 ekpmanim talimatarmz dođrullusundā kulanimasi koşuluya.

- 07 H Daikin Europe N.V. is authorized to complete the Technical Construction File.
08 A Daikin Europe N.V. está autorizada a compilar el fichero técnico de fabrica.
09 Команда Дайкин Европа N.V. уполномочена съставя документацията.
10 Daikin Europe N.V. er autoriseret til at udføre de tekniske konstruktionsdata.
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23 Daikin Europe N.V. ir autorizējis sastādīt tehnisko dokumentāciju.
24 Spoločnosť Daikin Europe N.V. je oprávnená vytvoriť súbor technickej konštrukcie.
25 Daikin Europe N.V. Teknik Dosyası Yapıyasını derlemeye yetkilidir.

Daikin Europe N.V., Zandvoordestraat 300, B-8400 Oostende Belgium



3SB64417-13L

Shinri Sada
Manager Quality Control Department

Shinri Sada

2011.1.31

DAIKIN INDUSTRIES, LTD.

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

01 Addendum to instructions delivered with the equipment:

The English text is the original instruction. Other languages are translations of the original instructions.

02 Ergänzung zu den mit der Ausrüstung gelieferten Instruktionen:

Bei der englischen Textfassung handelt es sich um das Original. Bei den Anleitungen in anderen Sprachen handelt es sich um Übersetzungen des Originals.

03 Addendum aux instructions fournies avec l'équipement:

Le texte anglais correspond aux instructions d'origine. Les autres langues sont les traductions des instructions d'origine.

04 Bijvoegsel voor bij de apparatuur geleverde instructies:

De Engelse tekst is de oorspronkelijke versie. Andere talen zijn vertalingen van de oorspronkelijke instructies.

05 Anexo a las instrucciones suministradas con el equipo:

El texto en inglés constituye las instrucciones originales. El resto de los idiomas son traducciones de las instrucciones originales.

06 Aggiunta alle istruzioni in dotazione con l'apparecchio:

Il testo in inglese corrisponde alle istruzioni originali. Le altre lingue sono traduzioni delle istruzioni originali.

07 Подаръпипо оборувану соопределено со опремата:

To originalno rešenje je izvorni tekst uputstva. Ostale jezike su prijevodi originalne upute.

08 Adenda às instruções fornecidas com o equipamento:

As instruções foram redigidas originalmente em inglês. As versões noutras línguas são traduções da redacção original.

09 Дополнение к инструкциям, прилагаемым к оборудованию:

Оригиналом инструкции является текст на английском языке. Текст на других языках является переводом с оригинала.

10 Tilleg til vejledningen leveret sammen med dette udstyr:

Vejledningens originalsprøg er engelsk. Andre sprog er oversættelser af den originale vejledning.

11 Tillägg till instruktionserna som medföljer utrustningen:

Den engelska texten är originalinstruktionerna. Övriga språk är översättningar av originalinstruktionerna.

12 Tillegg til instruksjoner som følger med utstyret:

Den engelske teksten inneholder originalinstruksjonene. Andre språk er oversettelser av originalinstruksjonene.

13 Lisäys laitteiston mukana toimitettuihin ohjeisiin:

Erityismuokkeellinen teksti on alkuperäinen ohje. Muut kielet ovat alkuperäisten ohjeden käännöksiä.

14 Dodatek k pokynom dodávaným k zařízením:

Originální návod je v angličtině. Ostatní jazyky jsou překladem originálního návodu.

15 Dodatek uputama isporučanim s opremom:

Engleski tekst je originalna uputa. Ostali jezici su prijevodi originalne upute.

16 Kiegészítés a berendezéshez mellékelt útmutatóhoz:

Az útmutató eredeti szövege az angol nyelvű szöveg. A többi nyelvű változat az útmutató eredeti szövegének a fordítása.

17 Црпупеиение информации оисноише инструкции, доисарзаных з урзденением:

Оригинальная инструкция оформлена на языке английским. Инструкции в остальных языках являются переводами инструкции оригинальной.

18 Anexa la instructiunile livrate cu echipamentul:

Textul în limba engleză este instrucțiunea originală. Celelalte limbi sunt traduceri ale instrucțiunilor originale.

19 Dodatek k návodům, přiložen opremě:

Izomni jezik tehi návodi je angličtina. Návody v drugih jazikih so prevodi navodi v izomnem jeziku.

20 Lisa vanustusega koos taritud juhenditeie:

Inglisekeene tekst on originaaljuhend. Teised keeled on originaaljuhendite tõlked.

21 Дополнение към инструкциите, предоставени с оборудването:

Текстът на английски език е оригиналната инструкция. Текстовете на останалите езици са преводи на оригиналните инструкции.

22 Přidáas přie instrukci, přistávy su řanáz:

Anglickás textás je originál instrukce. Textási klomás kalbomis je štos instrukcijs originálo verřimas.

23 Papildinájums kopá ar iekártám piegátájam instrukcijám:

Originálo instrukcija ir teksts angļu valodá. Teši pārējās valodás ir oriģinálo instrukciju tulcájumi.

24 Doplněk k pokynom dodávaným spolu so zariadením:

Originálny návod je v angličtine. Ostatné jazyky sú preklady originálneho návodu.

25 Ekřipman ile birfile verilen talimatlara ek:

İngilizce mein asıl talimatlar. Diğer diller asıl talimatların çevirileridir.




Safety Precautions

- 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.
- 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.**

- The safety marks shown in this manual have the following meanings:

 Be sure to follow the instructions.	 Be sure to establish an earth connection.	 Never attempt.
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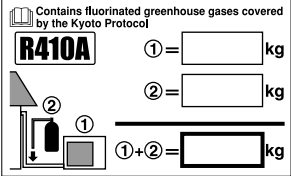


- After completing installation, conduct a trial operation to check for faults and explain to the customer how to operate the air conditioner and take care of it with the aid of the operation manual.

 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.	
• 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.	
• Electrical work must be performed in accordance with relevant local and national regulations and with instructions in this installation manual. Be sure to use a dedicated power supply circuit only. Insufficiency of power circuit capacity and improper workmanship may result in electric shocks or fire.	
• Use a cable of suitable length. Do not use tapped wires or an extension lead, as this may cause overheating, 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 wiring between the indoor and outdoor units, 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 over heating terminals.	
• 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.	
• When installing or relocating the air conditioner, be sure to bleed the refrigerant circuit to ensure it is free of air, and use only the specified refrigerant (R410A). The presence of air or other foreign matter in the refrigerant circuit causes abnormal pressure rise, which may result in equipment damage and even injury.	
• During installation, attach the refrigerant piping securely before running the compressor. If the refrigerant pipes are not attached and the stop valve is open when the compressor is run, air will be sucked in, causing abnormal pressure in the refrigeration cycle, which may result in equipment damage and even injury.	
• During pump-down, stop the compressor before removing the refrigerant piping. If the compressor is still running and the stop valve is open during pump-down, air will be sucked in when the refrigerant piping is removed, causing abnormal pressure in the refrigeration cycle, which may result in equipment damage and even injury.	
• 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.	
• Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks or fire.	

 CAUTION	
• Do not install the air conditioner at any place where there is a danger of flammable gas leakage. In the event of a gas leakage, build-up of gas near the air conditioner may cause a fire to break out.	
• 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.	
• Tighten the flare nut according to the specified method such as with a torque wrench. If the flare nut is too tight, it may crack after prolonged use, causing refrigerant leakage.	
• Make sure to provide for adequate measures in order to prevent that the outdoor unit be used as a shelter by small animals. Small animals making contact with electrical parts can cause malfunctions, smoke or fire. Please instruct the customer to keep the area around the unit clean.	
• The temperature of refrigerant circuit will be high, please keep the inter-unit wire away from copper pipes that are not thermally insulated.	

Accessories

Accessories supplied with the outdoor unit:

(A) Installation manual	1		
(C) Refrigerant charge label 	1	(B) Drain plug (Heat pump model)  There is on the bottom packing case.	1
(D) Multilingual fluorinated greenhouse gases label 	1		

Precautions for Selecting the Location

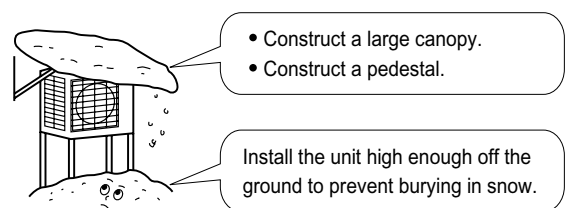
- 1) Choose a place solid enough to bear the weight and vibration of the unit, where the operation noise will not be amplified.
- 2) Choose a location where the hot air discharged from the unit or the operation noise will not cause a nuisance to the neighbours of the user.
- 3) Avoid places near a bedroom and the like, so that the operation noise will cause no trouble.
- 4) There must be sufficient spaces for carrying the unit into and out of the site.
- 5) There must be sufficient space for air passage and no obstructions around the air inlet and the air outlet.
- 6) The site must be free from the possibility of flammable gas leakage in a nearby place.
- 7) Install units, power cords and inter-unit wire at least 3m away from television and radio sets. This is to prevent interference to images and sounds. (Noises may be heard even if they are more than 3m away depending on radio wave conditions.)
- 8) In coastal areas or other places with salty atmosphere of sulfate gas, corrosion may shorten the life of the air conditioner.
- 9) Since drain flows out of the outdoor unit, do not place under the unit anything which must be kept away from moisture.

NOTE

Cannot be installed hanging from ceiling or stacked.

CAUTION

- When operating the air conditioner in a low outdoor ambient temperature, be sure to follow the instructions described below.
- To prevent exposure to wind, install the outdoor unit with its suction side facing the wall.
 - Never install the outdoor unit at a site where the suction side may be exposed directly to wind.
 - To prevent exposure to wind, it is recommended to install a baffle plate on the air discharge side of the outdoor unit.
 - In heavy snowfall areas, select an installation site where the snow will not affect the unit.



Outdoor Unit Installation Drawings

Max. allowable length	20m
** Min. allowable length	1.5m
Max. allowable height	15m
* Additional refrigerant required for refrigerant pipe exceeding 10m in length.	20g/m
Gas pipe	O.D. 9.5mm
Liquid pipe	O.D. 6.4mm

- * Be sure to add the proper amount of additional refrigerant. Failure to do so may result in reduced performance.
- ** The suggested shortest pipe length is 1.5m, in order to avoid noise from the outdoor unit and vibration. (Mechanical noise and vibration may occur depending on how the unit is installed and the environment in which it is used.) When connecting the FVXG indoor unit, the shortest piping length should be no less than around 2.5m.

Wrap the insulation pipe with the finishing tape from bottom to top.

CAUTION
**Set the piping length from 1.5m to 20m.

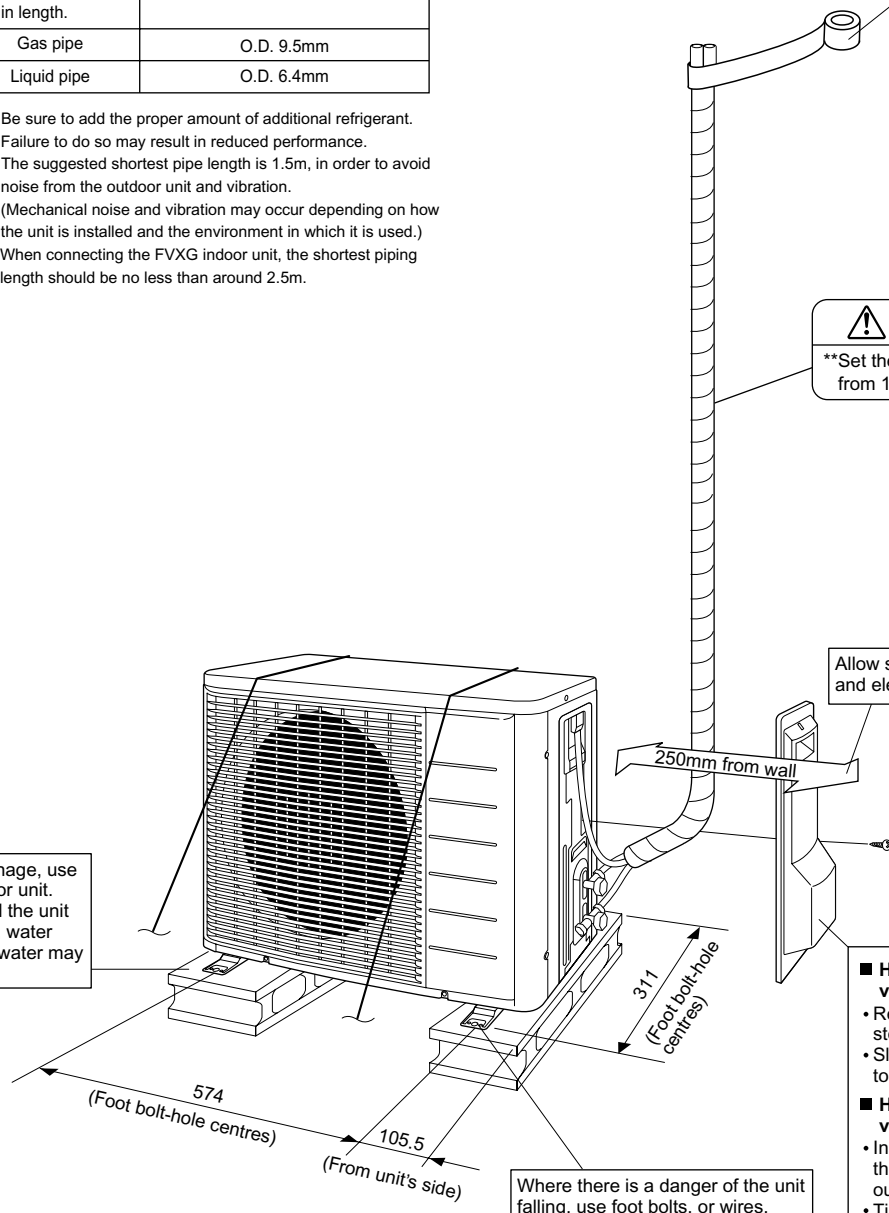
Allow space for piping and electrical servicing.

In sites with poor drainage, use block bases for outdoor unit. Adjust foot height until the unit is leveled. Otherwise, water leakage or pooling of water may occur.

Stop valve cover

- **How to remove the stop valve cover**
 - Remove the screw on the stop valve cover.
 - Slide the lid downward to remove it.
- **How to attach the stop valve cover**
 - Insert the upper part of the stop valve cover into the outdoor unit to install.
 - Tighten the screws.

Where there is a danger of the unit falling, use foot bolts, or wires.

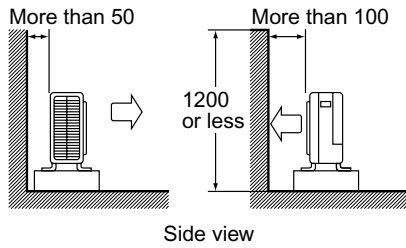


unit: mm

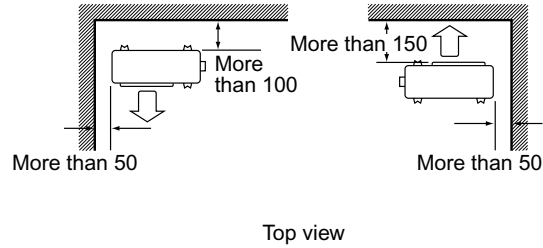
Installation Guidelines

- Where a wall or other obstacle is in the path of outdoor unit's inlet or outlet airflow, follow the installation guidelines below.
- For any of the below installation patterns, the wall height on the outlet side should be 1200mm or less.

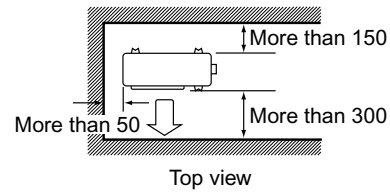
Wall facing one side



Walls facing two sides



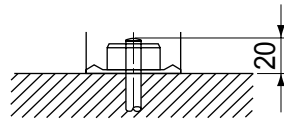
Walls facing three sides



unit: mm

Precautions on Installation

- Check the strength and level of the installation ground so that the unit will not cause any operating vibration or noise after installed.
- In accordance with the foundation drawing, fix the unit securely by means of the foundation bolts. (Prepare 4 sets of M8 or M10 foundation bolts, nuts and washers each which are available on the market.)
- It is best to screw in the foundation bolts until their length are 20mm from the foundation surface.



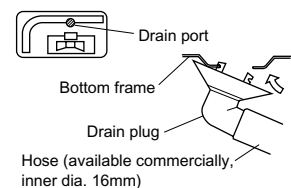
Outdoor Unit Installation

1. Installing outdoor unit

- 1) When installing the outdoor unit, refer to "Precautions for Selecting the Location" and the "Outdoor Unit Installation Drawings".
- 2) If drain work is necessary, follow the procedures below.

2. Drain work

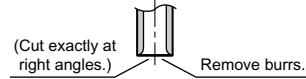
- 1) Use drain plug for drainage.
- 2) If the drain port is covered by a mounting base or floor surface, place additional foot bases of at least 30mm in height under the outdoor unit's feet.
- 3) In cold areas, do not use a drain hose with the outdoor unit. (Otherwise, drain water may freeze, impairing heating performance.)



Outdoor Unit Installation

3. Flaring the pipe end

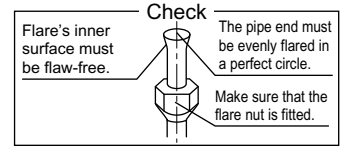
- 1) Cut the pipe end with a pipe cutter.
- 2) Remove burrs with the cut surface facing downward so that the chips do not enter the pipe.
- 3) Put the flare nut on the pipe.
- 4) Flare the pipe.
- 5) Check that the flaring is properly made.



Flaring

Set exactly at the position shown below.

Flare tool for R410A	Conventional flare tool		
	Clutch-type	Clutch-type (Rigid-type)	Wing-nut type (Imperial-type)
A	0-0.5mm	1.0-1.5mm	1.5-2.0mm



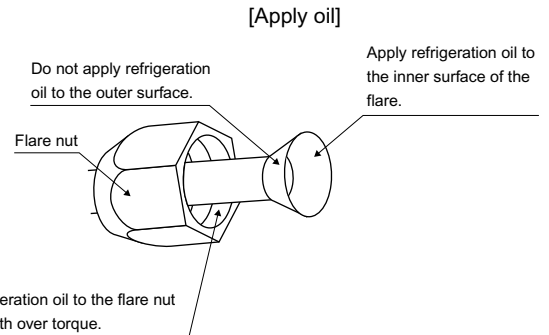
⚠ WARNING

- Do not use mineral oil on flared part.
- Prevent mineral oil from getting into the system as this would reduce the lifetime of the units.
- Never use piping which has been used for previous installations. Only use parts which are delivered with the unit.
- Do never install a drier to this R410A unit in order to guarantee its lifetime.
- The drying material may dissolve and damage the system.
- Incomplete flaring may cause refrigerant gas leakage.

4. Refrigerant piping

⚠ CAUTION

- Use the flare nut fixed to the main unit. (To prevent cracking of the flare nut by aged deterioration.)
 - To prevent gas leakage, apply refrigeration oil only to the inner surface of the flare. (Use refrigeration oil for R410A.)
 - Use torque wrenches when tightening the flare nuts to prevent damage to the flare nuts and gas leakage.
- Align the centres of both flares and tighten the flare nuts 3 or 4 turns by hand. Then tighten them fully with the torque wrenches.



Flare nut tightening torque	
Gas side	Liquid side
3/8 inch	1/4 inch
32.7-39.9N • m (333-407kgf • cm)	14.2-17.2N • m (144-175kgf • cm)

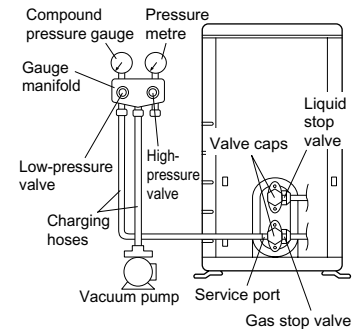
Valve cap tightening torque	
Gas side	Liquid side
3/8 inch	1/4 inch
21.6-27.4N • m (220-280kgf • cm)	21.6-27.4N • m (220-280kgf • cm)
Service port cap tightening torque	10.8-14.7N • m (110-150kgf • cm)

5. Purging air and checking gas leakage

- When piping work is completed, it is necessary to purge the air and check for gas leakage.

⚠ WARNING

- Do not mix any substance other than the specified refrigerant (R410A) into the refrigeration cycle.
 - When refrigerant gas leaks occur, ventilate the room as soon and as much as possible.
 - R410A, as well as other refrigerants, should always be recovered and never be released directly into the environment.
 - Use a vacuum pump for R410A exclusively. Using the same vacuum pump for different refrigerants may damage the vacuum pump or the unit.
-
- If using additional refrigerant, perform air purging from the refrigerant pipes and indoor unit using a vacuum pump, then charge additional refrigerant.
 - Use a hexagonal wrench (4mm) to operate the stop valve rod.
 - All refrigerant pipe joints should be tightened with a torque wrench at the specified tightening torque.



1) Connect projection side of charging hose (which comes from gauge manifold) to gas stop valve's service port.



2) Fully open gauge manifold's low-pressure valve (Lo) and completely close its high-pressure valve (Hi).
(High-pressure valve subsequently requires no operation.)



3) Do vacuum pumping and make sure that the compound pressure gauge reads -0.1MPa (-76cmHg).^{*1}



4) Close gauge manifold's low-pressure valve (Lo) and stop vacuum pump.
(Keep this state for a few minutes to make sure that the compound pressure gauge pointer does not swing back.)^{*2}



5) Remove caps from liquid stop valve and gas stop valve.



6) Turn the liquid stop valve's rod 90 degrees counterclockwise with a hexagonal wrench to open valve.
Close it after 5 seconds, and check for gas leakage.
Using soapy water, check for gas leakage from indoor unit's flare and outdoor unit's flare and valve rods.
After the check is complete, wipe all soapy water off.



7) Disconnect charging hose from gas stop valve's service port, then fully open liquid and gas stop valves.
(Do not attempt to turn valve rod beyond its stop.)



8) Tighten valve caps and service port caps for the liquid and gas stop valves with a torque wrench at the specified torques.

^{*1}. Pipe length vs. vacuum pump run time.

Pipe length	Up to 15m	More than 15m
Run time	Not less than 10 min.	Not less than 15 min.

^{*2}. If the compound pressure gauge pointer swings back, refrigerant may have water content or a loose pipe joint may exist.
Check all pipe joints and retighten nuts as needed, then repeat steps 2) through 4).

Outdoor Unit Installation

6. Refilling the refrigerant

Check the type of refrigerant to be used on the machine nameplate.

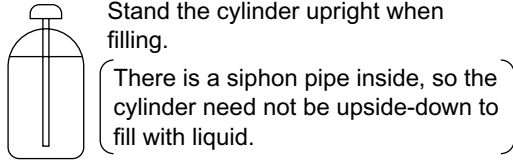
Precautions when adding R410A

Fill from the liquid pipe in liquid form.

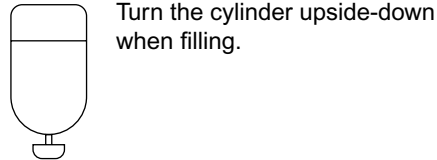
It is a mixed refrigerant, so adding it in gas form may cause the refrigerant composition to change, preventing normal operation.

- 1) Before filling, check whether the cylinder has a siphon attached or not. (It should have something like "liquid filling siphon attached" displayed on it.)

Filling a cylinder with an attached siphon



Filling other cylinders



- Be sure to use the R410A tools to ensure pressure and to prevent foreign objects entering.

Important information regarding the refrigerant used

This product contains fluorinated greenhouse gases covered by the Kyoto Protocol. Do not vent gases into the atmosphere.

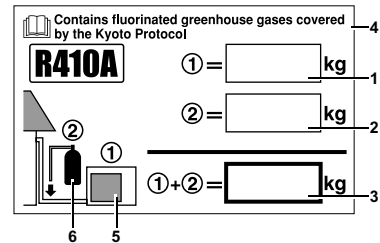
Refrigerant type: **R410A**

GWP⁽¹⁾ value: **1975** ⁽¹⁾ GWP = global warming potential

Please fill in with indelible ink,

- ① the factory refrigerant charge of the product,
 - ② the additional refrigerant amount charged in the field and
 - ①+② the total refrigerant charge
- on the refrigerant charge label supplied with the product.

The filled out label must be adhered in the proximity of the product charging port (e.g. onto the inside of the stop valve cover).



- 1 factory refrigerant charge of the product: see unit name plate
- 2 additional refrigerant amount charged in the field
- 3 total refrigerant charge
- 4 Contains fluorinated greenhouse gases covered by the Kyoto Protocol
- 5 outdoor unit
- 6 refrigerant cylinder and manifold for charging

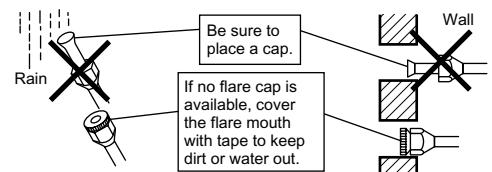
NOTE

National implementation of EU regulation on certain fluorinated greenhouse gases may require to provide the appropriate official national language on the unit. Therefore an additional multilingual fluorinated greenhouse gases label is supplied with the unit. Sticking instructions are illustrated on the backside of that label.

7. Refrigerant piping work

7-1 Caution on pipe handling

- 1) Protect the open end of the pipe against dust and moisture.
- 2) All pipe bends should be as gentle as possible. Use a pipe bender for bending.

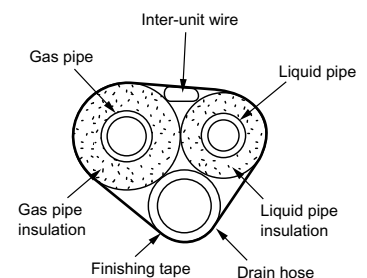


7-2 Selection of copper and heat insulation materials

When using commercial copper pipes and fittings, observe the following:

- 1) Insulation material: Polyethylene foam
Heat transfer rate: 0.041 to 0.052W/mK (0.035 to 0.045kcal/mh°C)
Refrigerant gas pipe's surface temperature reaches 110°C max.
Choose heat insulation materials that will withstand this temperature.
- 2) Be sure to insulate both the gas and liquid piping and to provide insulation dimensions as below.

Gas side	Liquid side	Gas pipe thermal insulation	Liquid pipe thermal insulation
O.D. 9.5mm	O.D. 6.4mm	I.D. 12-15mm	I.D. 8-10mm
Minimum bend radius		Thickness 10mm Min.	
30mm or more			
Thickness 0.8mm (C1220T-O)			



- 3) Use separate thermal insulation pipes for gas and liquid refrigerant pipes.

Standby Electricity Saving

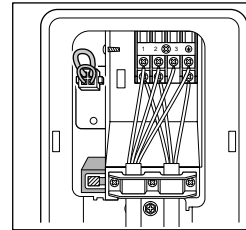
The standby electricity saving function turns off power supply to the outdoor unit and sets the indoor unit into standby electricity saving mode, thus reducing the power consumption of the air conditioner.

CAUTION

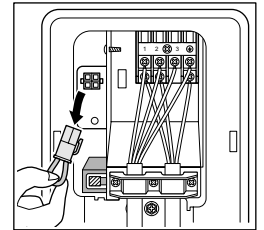
- The standby electricity saving function cannot be used for models other than the specified ones.

■ Procedure for turning on standby electricity saving function

- 1) Check that the main power supply is turned off. Turn it off if has not been turned off.
- 2) Remove the stop valve cover.
- 3) Disconnect the selective connector for standby electricity saving.
- 4) Turn on the main power supply.



Standby electricity saving function off.



Standby electricity saving function on.

The standby electricity saving function is turned off before shipping.

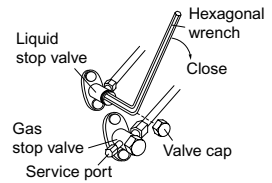
CAUTION

- Before connecting or disconnecting the selective connector for standby electricity saving, make sure that the main power supply is turned off.
- The selective connector for standby electricity saving is required if an indoor unit other than the above applicable ones is connected.

Pump Down Operation

In order to protect the environment, be sure to pump down when relocating or disposing of the unit.

- 1) Remove the valve cap from liquid stop valve and gas stop valve.
- 2) Carry out forced cooling operation.
- 3) After 5 to 10 minutes, close the liquid stop valve with a hexagonal wrench.
- 4) After 2 to 3 minutes, close the gas stop valve and stop forced cooling operation.



Forced cooling operation

■ Using the indoor unit ON/OFF switch

Press the indoor unit ON/OFF switch for at least 5 seconds. (Operation will start.)

- Forced cooling operation will stop automatically after around 15 minutes. To force a trial operation to stop, press the indoor unit ON/OFF switch.

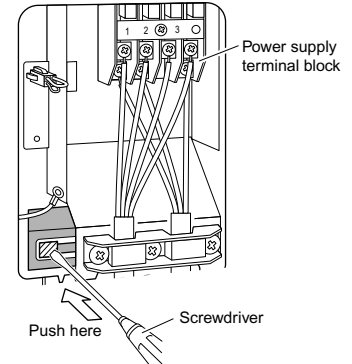
■ Using the indoor unit's remote controller

- 1) Press "MODE" button and select the cooling mode.
- 2) Press "ON/OFF" button to turn on the system.
- 3) Press both of "TEMP" button and "MODE" button at the same time.
- 4) Press "MODE" button twice. (7 will be displayed and the unit will enter trial operation.)
 - Trial operation will stop automatically after around 30 minutes. To stop trial operation, press "ON/OFF" button.

■ Using the outdoor unit forced cooling operation switch (with standby electricity saving function turned off)

Push on "☐" (SW1) with a screwdriver. (Operation will start.)

- Forced cooling operation will stop automatically after around 15 minutes. To force a trial operation to stop, press the forced operation switch (SW1).



The selective connector for standby electricity saving in use (with standby electricity saving function turned off)

⚠ CAUTION

- When pressing the switch, do not touch the terminal block. It has a high voltage, so doing so may cause electric shock.
- After closing the liquid stop valve, close the gas stop valve within 3 minutes, then stop the forced operation.

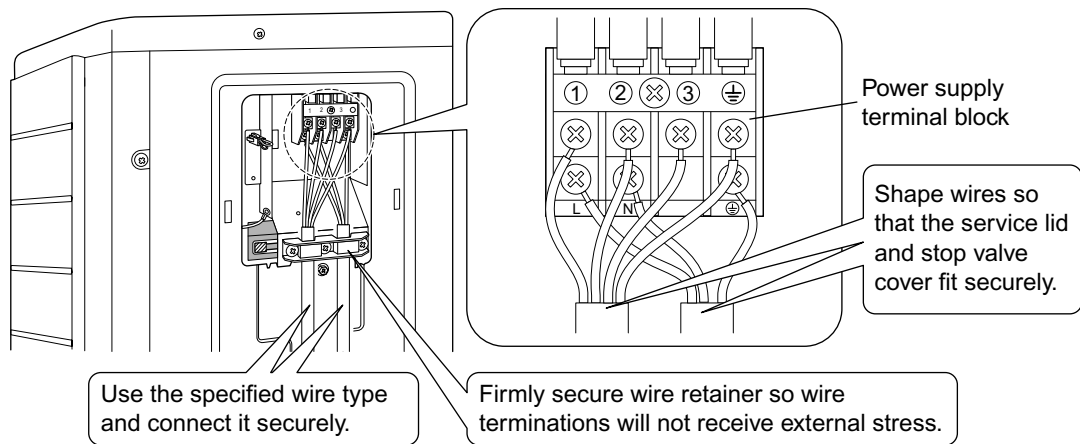
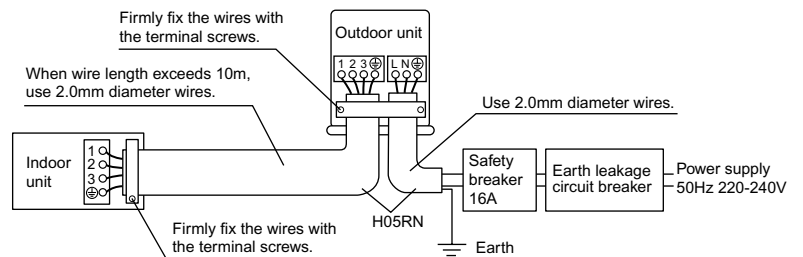
Wiring

⚠ WARNING

- Do not use tapped wires, stranded wires, extension cords, or starburst connections, as they may cause overheating, electrical shock, or fire.
- Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so may cause electric shock or fire.
- Be sure to install an earth leak detector. (One that can handle higher harmonics.)
(This unit uses an inverter, which means that it must be used an earth leak detector capable handling harmonics in order to prevent malfunctioning of the earth leak detector itself.)
- Use an all-pole disconnection type breaker with at least 3mm between the contact point gaps.
- Do not connect the power wire to the indoor unit. Doing so may cause electric shock or fire.

- Do not turn on the safety breaker until all work is completed.

- 1) Strip the insulation from the wire (20mm).
- 2) Connect the connection wires between the indoor and outdoor units so that the terminal numbers match. Tighten the terminal screws securely. We recommend a flathead screwdriver be used to tighten the screws. The screws are packed with the terminal board.

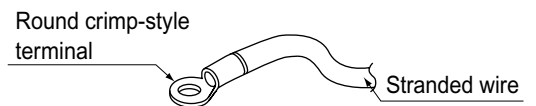


Observe the notes mentioned following when wiring to the power supply terminal board.

Precautions to be taken for power supply wiring.

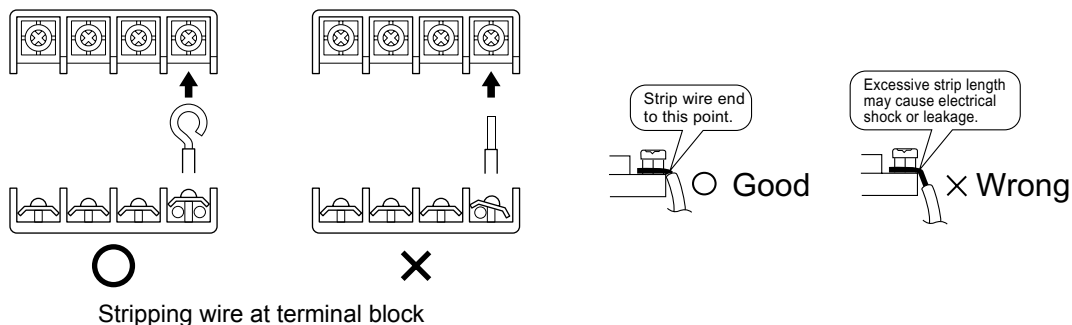
Use a round crimp-style terminal for connection to the power supply terminal board. In case it cannot be used due to unavoidable reasons, be sure to observe the following instruction.

Place the round crimp-style terminals on the wires up to the covered part and secure in place.



⚠ CAUTION

- When connecting the connection wires to the terminal board using a single core wire, be sure to perform curling. Problems with the work may cause heat and fires.



- 3) Pull the wire and make sure that it does not disconnect. Then fix the wire in place with a wire stop.

Trial Operation and Testing

1. Trial operation and testing

1-1 Measure the supply voltage and make sure that it falls in the specified range.

1-2 Trial operation should be carried out in either cooling or heating mode.

- In cooling mode, select the lowest programmable temperature; in heating mode, select the highest programmable temperature.
 - 1) Trial operation may be disabled in either mode depending on the room temperature.
 - 2) After trial operation is complete, set the temperature to a normal level (26°C to 28°C in cooling mode, 20°C to 24°C in heating mode).
 - 3) For protection, the system disables restart operation for 3 minutes after it is turned off.
- 1-3 Carry out the test operation in accordance with the operation manual to ensure that all functions and parts, such as louver movement, are working properly.
- The air conditioner requires a small amount of power in its standby mode. If the system is not to be used for some time after installation, shut off the circuit breaker to eliminate unnecessary power consumption.
 - If the circuit breaker trips to shut off the power to the air conditioner, the system will restore the original operation mode when the circuit breaker is opened again.

2. Test items

Test items	Symptom	Check
Indoor and outdoor units are installed properly on solid bases.	Fall, vibration, noise	
No refrigerant gas leaks.	Incomplete cooling/heating function	
Refrigerant gas and liquid pipes and indoor drain hose extension are thermally insulated.	Water leakage	
Draining line is properly installed.	Water leakage	
System is properly earthed.	Electrical leakage	
The specified wires are used for inter-unit wiring.	Inoperative or burn damage	
Indoor or outdoor unit's air inlet or outlet has clear path of air. Stop valves are opened.	Incomplete cooling/heating function	
Indoor unit properly receives remote control commands.	Inoperative	

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