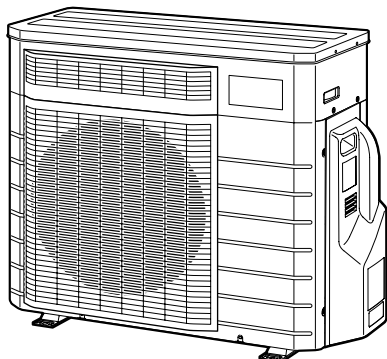


DAIKIN

INSTALLATION MANUAL

R410A Split Series

INVERTER



Models

RXR28EV1B8

RXR42EV1B8

RXR50EV1B8

RXR28EV1B9

RXR42EV1B9

RXR50EV1B9

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-COMFORMITY
CE - KONFORMITÄTSERKÄRÄYKYS
CE - DECLARATION-DE-CONFORMITE
CE - KONFORMITEITS/VERKLARING

DAIKIN INDUSTRIES, LTD.

CE - DECLARACION-DE-CONFORMIDAD
CE - DICHIARAZIONE-DE-CONFORMITÀ
CE - ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ

CE - DECLARAÇÃO-DE-CONFORMIDADE
CE - ЗАЯВЛЕНИЕ-О-СОТВЕТСТВИИ
CE - ÖPFEJDELSESERKLÄRING
CE - FÖRSÄKRAN-OM-ÖVERENSSTÄMMELSE

CE - ERKLÄRUNG OM-SÄMSVAR
CE - ILMOITUS-YHDENMUKAISUJUEDESTA
CE - DEKLARACJA-ZGODNOSCŃ
CE - DECLARAȚIE-DE-CONFORMITATE

CE - IZJAVA-O-USKLABENOSTI
CE - MEGFELELŐSÉG-NYILATKOZAT
CE - DEKLARACJA-ZGODNOSCŃ
CE - DECLARAȚIE-DE-CONFORMITATE

CE - IZJAVA-O SKLADNOSTI
CE - VASTAVUŠDEKLARACIJA
CE - DEKLARACIJA-ČIŠĆIVOSTI
CE - UYUMLULUK-BİLDİRİSİ

CE - ATTIKTIKIES-DEKLARACIJA
CE - ATBILSTĪBAS-DEKLARACIJA
CE - VYHLÁSENIE-ZHODY
CE - UYUMLULUK-BİLDİRİSİ

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

RXR28EV1B9, RXR42EV1B9, RXR60EV1B9

- 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 erenden følgende Norm(en) oder einen anderen Normdokument oder -dokumenten entsprich(t)entsprechen, unter der Voraussetzung, daß sie gemäß unseren Anweisungen eingesetzt werden;
- 03 sont conformes à la(ux) norme(s) ou autre(s) document(s) normatif(s), pour autant qu'ils soient utilisés conformément à nos instructions;
- 04 conform de volgende norm(en) of één of meer andere bñderende 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(oi) seguente(i) standard(i) o altro(i) documento(i) a carattere normativo, a patto che vengano usati in conformità alle nostre istruzioni;
- 07 είναι σύμφωνα με το(α) ακόλουθ(ο) πρότυπο(α) ή άλλο(α) έγγραφο(α) κανονισμών, υπό την προϋπόθεση ότι χρησιμοποιούνται σύμφωνα με τις οδηγίες μας;

EN60335-2-40,

- 01 following the provisions of:
- 02 gemäß den Vorschriften der:
- 03 conformément aux stipulations des:
- 04 overeenkomstig de bepalingen van:
- 05 seguindo las disposiciones de:
- 06 secondo le prescrizioni per:
- 07 με τηρών τον διατάξαν των:
- 08 de acordo com o previsto em:
- 09 в соответствии с положениями:

- 01 Note * as set out in <A> and judged positively by according to the Certificate <C>.
- 02 Hinweis * wie in der <A> aufgeführt und von positiv beurteilt gemäß Zertifikat <C>.
- 03 Remarque * tel que défini dans <A> et jugé positivement par conformément au Certificat <C>.
- 04 Bemerk * zoals vermeld in <A> en positief beoordeeld door overeenkomstig Certificaat <C>.
- 05 Nota * como se establece en <A> y es valorado positivamente por de acuerdo con el Certificado <C>.

- 11 Information * enigi <A> och godkänns av enligt Certifikat <C>.
- 12 Merk * som det framkommer i <A> og gjennoms positiv bedømmelse av ifølge Sertifikaat <C>.
- 13 Huom * jalka on esittänyt asiantuntijassa <A> ja jalka on hyväksynyt Sertifikaatin <C> mukaisesti.
- 14 Poznámka * jak bylo uvedeno v <A> a pozitivně zjištěno v souladu s ověřením <C>.
- 15 Napomena * kako je izloženo u <A> i pozitivno ocijenjeno od strane prema Certificatu <C>.

- 16 Megjegyzés * a(z) <A> alapján a(z) igazolta a megjelölt, a(z) <C> tanúsítvány szerint.
- 17 Uwaga * zgodnie z dokumentacją <A> pozytywną opinią świadczyłem <C>.
- 18 Noat * äsa cum esse stabilii in <A> și aprobat pozitiv de în conformitate cu Certificatul <C>.
- 19 Opomba * kot je obloženo v <A> in odobreno s strani v skladu s certifikatom <C>.
- 20 Märkus * nagu on nähtud dokumentis <A> ja teatis kindel järgi vastavalt sertifikaatile <C>.

- 01 Directives, as amended.
- 02 Direktiven, gemäß Änderung.
- 03 Directives, telles que modifiées.
- 04 Richtlijnen, zoals gewijzigd.
- 05 Directivas, según lo emmendado.
- 06 Direktive, come da modifica.
- 07 Оδηγίες, όπως έχουν τροποποιηθεί.
- 08 Directivas, conforme alteração em.
- 09 Директиве, со всеми поправками.

- 20 Direktiver, med senere ændringer.
- 21 Direktiv, med foretagne ændringer.
- 22 Direktiver, med foretagne ændringer.
- 23 Direktiveja, saistāra kūn tie ova iuzmetuina.
- 24 Direktivas un to papildinājums.
- 25 Snemnice, kako je izmjenjeno.
- 26 Smernice, s platnom zneni.
- 27 Директиви, с текориме измененија.
- 28 Direktiwa, co amercendamentele respective.

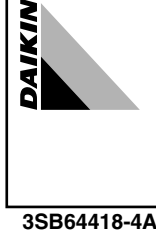
- 21 Забелювка * катро е корисно а <A> и одобрено покломено от согласно Сертификат <C>.
- 22 Pastaba * kaip nustatyta <A> ir kaip teigiamai nuspresta pagal Sertifikaatą <C>.
- 23 Pznamen * ja norasiti <A> un apibūsti pozitvajam vertinimam sesana ar sertifikatu <C>.
- 24 Poznámka * ako bolo uvedené v <A> a pozitivne zistené v súlade s overením <C>.
- 25 Not * <A> ja beidritidigi ghi ve <C> Sertifikaata göre tarafindan olumlu olarak deđerlendirildi gibi.

- 19 sruin, talmatimuz gire kulanimisasi kosulimisasi asgudaki standartlar ve norm belitlen belgeete uyumludur.
- 20 atlinca zemian nurodytu standartu su salgya, kad yra naudojami pagal musu nurodytus:
- 21 tad, ja keliu atbilstisi razobia nurodijimam, abtisi sekociusim standartam u citem normativum dokumentim:
- 24 su v zbove s nasledovnyymi) normami) alebo inymi) normativnymi) dokumentami(ami), za predpokladu, že sa používajú v súlade s našimi rávodami:
- 25 ünün, talmatimuz gire kulanimisasi kosulimisasi asgudaki standartlar ve norm belitlen belgeete uyumludur.

- 16 meplenek az alábbi szabvány(ok)nak vagy egyéb irányadó dokumentum(ok)nak, ha azokat előírás szerint használják;
- 17 spełnia, wymogi następujących norm i innych dokumentów normalizacyjnych, pod warunkiem że używane są zgodnie z naszymi instrukcjami;
- 18 sunt în conformitate cu următoarele (următoarele) standarde (sau alte documente) normative, cu condiția ca acestea să fie utilizate în conformitate cu instrucțiunile noastre;
- 19 sklaun z nasledujimi standardi in drugiimi normativi, pod pogojem, da se uporabljajo v skladu z našimi navodili;
- 20 on vastastusse järgmis(ite) standard(ite)ga või teiste normatiivsete dokumentitega, kui need kasutatakse vastavalt meie juhenditele;
- 21 съответстват на следните стандарти или други нормативни документи, при условие, че се използват съгласно нашите инструкции;
- 22 atlinca zemian nurodytu standartu su salgya, kad yra naudojami pagal musu nurodytus:
- 23 tad, ja keliu atbilstisi razobia nurodijimam, abtisi sekociusim standartam u citem normativum dokumentim:
- 24 su v zbove s nasledovnyymi) normami) alebo inymi) normativnymi) dokumentami(ami), za predpokladu, že sa používajú v súlade s našimi rávodami:
- 25 ünün, talmatimuz gire kulanimisasi kosulimisasi asgudaki standartlar ve norm belitlen belgeete uyumludur.

- 19 <A> z svo odgovorností izjavlja, da so modeli klimatskih naprav, na katere se zjava nanaša;
- 20 <A> kimlja oma täieliku vastutust, et käesoleva deklaratsiooni alla kuuluvad kliimaseadmete mudelid;
- 21 <A> deklariira oma eest otvovpnost, et voolavate kliimatihna instratsiia, za koroie se otnasä zää deklaratsiia;
- 22 <A> vyškä savo atsakomybe skelbia, kad oro kondicionavimo prietaisų modeliai, kuriems yra laikoma ši deklaracija;
- 23 <A> ar pilnu atbildību apliecinā, ka tāk uzskatīto modeļu gaisa kondicionēji, uz kuriem attiecas šī deklarācija;
- 24 <A> vyhlásije na vlastnú zodpovednosť, že tieto klimatizačné modely, na ktoré sa vzťahuje toto vyhlásenie;
- 25 <A> lamamen kendi sorumluluğunda otnak üzere bu bildirimini ilgili ölçüğü, klima modelerinin asgudaki gibi oldugunu beyan eder;

- 19 <A> z svo odgovorností izjavlja, da so modeli klimatskih naprav, na katere se zjava nanaša;
- 20 <A> kimlja oma täieliku vastutust, et käesoleva deklaratsiooni alla kuuluvad kliimaseadmete mudelid;
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3SB64418-4A

Shimri Sada
Manager Quality Control Department
1st. of Nov. 2008

Shimri Sada

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

<A>	DAIKIN.TCF.015 K1/07-2007
	KEMA Quality B.V.
<C>	74736-KRO/EMC97-4957

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 Подорожнюк об'явує про наявність оригінальної інструкції:

Тільки оригінальний текст є оригінальною інструкцією. Решта мов – це переклади оригінальної інструкції.

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 originaleprog 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:

Englanninkielinen teksti on alkuperäinen ohje. Muut kielet ovat alkuperäisten ohjeiden käännöksiä.

14 Dodatki k polynům dodávaným k zařízení:

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

15 Dodatki uputama isporučanim s opremom:

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

16 Kiegészítés a berendezéshoz mellékelt útmutatóhoz:

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

17 Uzpehnenie informacij odošnje instrukcij dostarczanih z urzadjenjem:

Originalna instrukcija opracovana v jeziku angleški. Instrukcije v pozostajih jezikih so, tumačenjani instrukcij originalnej.

18 Anexa la instrucțiunile livrate cu echipamentul:

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

19 Dodatek k navodilom, priložen opremi:

Izvorni jezik (ah navodil) je angleščina. Navodila v drugih jezikih so prevodi navodil v izvornem jeziku.

20 Lisa varustusega koos tamiud juhendite:

Inglisekeelne 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 Přidatek pře instrukci, přistavtu su jřanqa:

Anglickés textas yra originali instrukcija. Tekstai kitomis kalbomis yra šios instrukcijos originalo vertimas.

23 Papildinājums kopā ar iekārtām piegādātajām instrukcijām:

Originalā instrukcija ir teksts angļu valodā. Teksti pārējos valodās ir oriģinālo instrukciju tulkojumi.

24 Doplnok k polynom dodávaným spolu so zařadjením:

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

25 Ekjipman ile birlikte verilen talimatlara ek:

İngilizce metin asıl talimatlar. Diğer diller asıl talimatların çevrilidir.




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

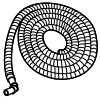

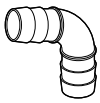

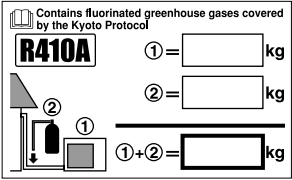
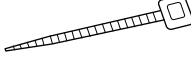

• Ask your dealer or qualified personnel to carry out installation work. Do not attempt to install the air conditioner yourself. Improper installation may result in water leakage, electric shocks or fire.	
• Install the air conditioner in accordance with the instructions in this installation manual. 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:

<p>Ⓐ Installation Manual</p>	1	<p>Ⓑ Drain plug</p>	
<p>Ⓒ Humidifying hose (8m)</p> 	1		1
<p>Ⓔ Elbow</p> 	1	<p>Ⓓ Joint</p> 	1
<p>Ⓖ Refrigerant charge label</p> 	1	<p>Ⓕ Binding band</p> 	5
<p>Ⓗ Multilingual fluorinated greenhouse gases label</p>  <p>There is on the bottom packing case.</p>	1		

- The standard humidifying hose is 8m.
- The extension hose (option) is 2m (KPMH974A402).
- An humidifying hose of 10m (KPMH974A42) is also available as an option to replace the standard one (8m).

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 neighbors of the user.
- 3) Avoid places near a bedroom or similar, 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 cables at least 3 meter 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 3 meter 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.

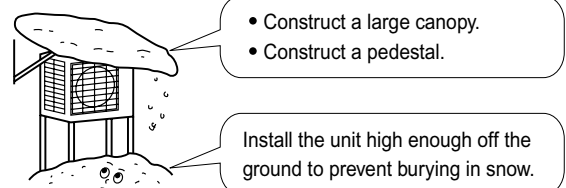
NOTE

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.

- 1) To prevent exposure to wind, install the outdoor unit with its suction side facing the wall.
- 2) Never install the outdoor unit at a site where the suction side may be exposed directly to wind.
- 3) To prevent exposure to wind, it is recommended to install a baffle plate on the air discharge side of the outdoor unit.
- 4) In heavy snowfall areas, select an installation site where the snow will not affect the unit.



Outdoor Unit Installation Drawings

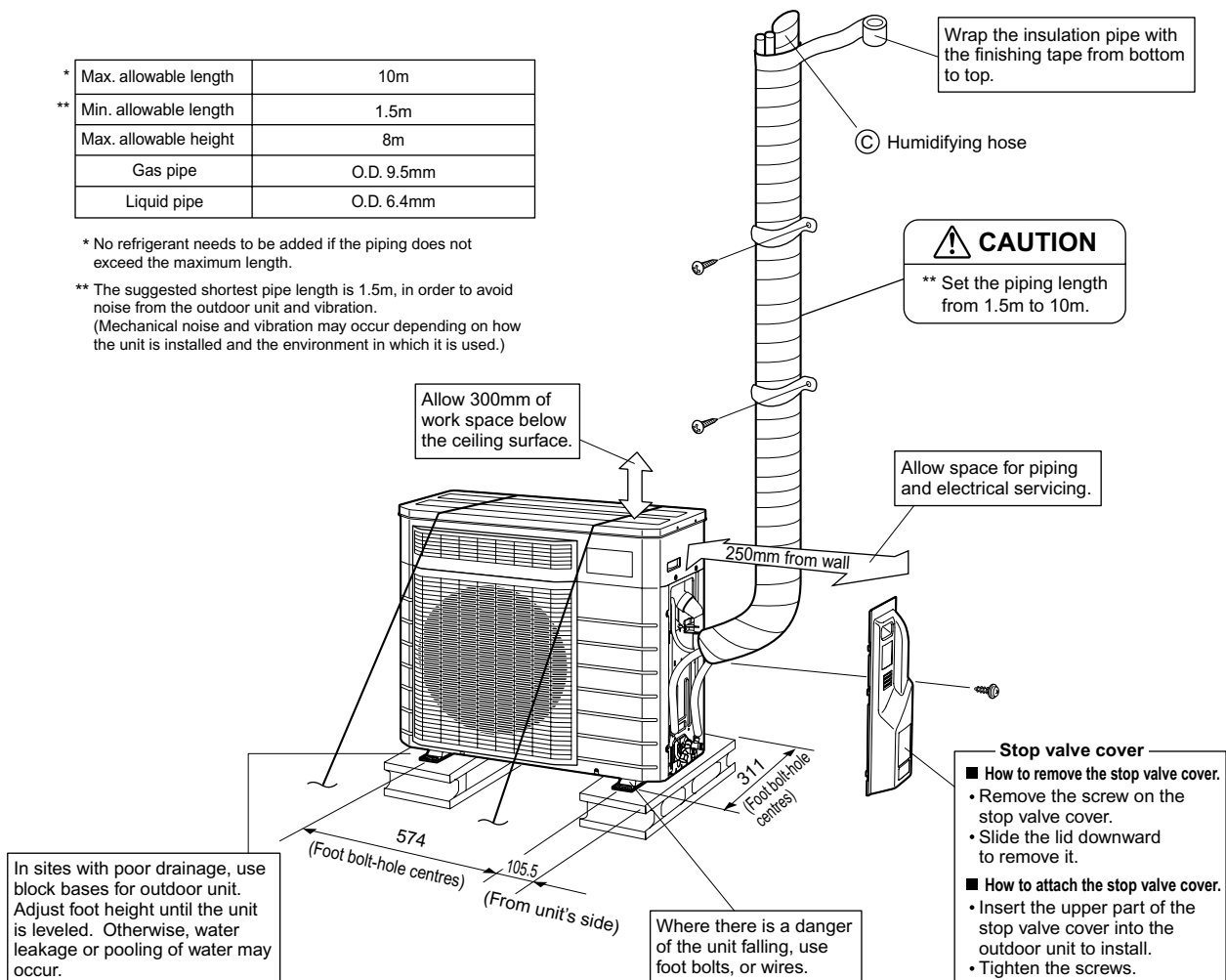
1. Precautions for humidifying hose installation work.

- Moisture on the outdoor unit is brought to the indoor unit together with air around the outdoor unit during humidifying operation. Install the outdoor unit in a clean and calm location.
- When embedding ㉔ humidifying hose:
 - Cannot be installed to the existing embedded piping. Embedding work is separately necessary.
- The length of the ㉔ humidifying hose is marked on the hose packing material.
 - Use an extension hose (sold separately) when extending the ㉔ humidifying hose.
 - The length of the ㉔ humidifying hose needs to be set to ensure humidifying capacity. Cut off any excess hose. Use the remote controller to set the hose length.
- When it is difficult to install without cutting the ㉔ humidifying hose, cut the hose and join it with included ㉕ joint or ㉖ elbow after the installation. When doing this, bind the hose using included ㉗ binding band so that there is no air leakage. (Refer to **Connecting the Humidifying Hose** on page 8.)
- When laying the ㉔ humidifying hose inside the wall, block the ends of the ㉔ humidifying hose with tape or the like to prevent water or anything else from entering it until it is connected to the indoor unit and outdoor unit ducts.
- Do not bend the ㉔ humidifying hose more than 90°.

* Max. allowable length	10m
** Min. allowable length	1.5m
Max. allowable height	8m
Gas pipe	O.D. 9.5mm
Liquid pipe	O.D. 6.4mm

* No refrigerant needs to be added if the piping does not exceed the maximum length.

** 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.)

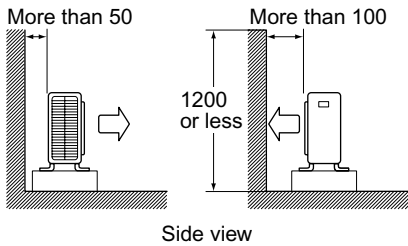


Unit: mm

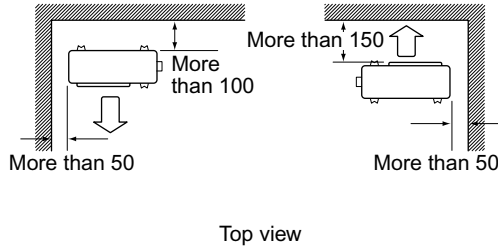
Installation Guidelines

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

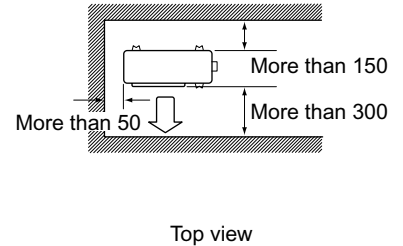
Wall facing one side



Walls facing two sides



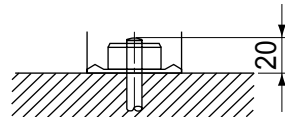
Walls facing three sides



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 four 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.



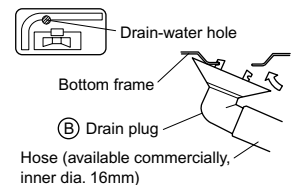
Outdoor Unit Installation

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.

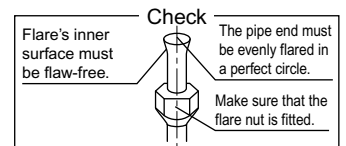
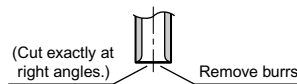
2. Drain work (heat pump-models).

- 1) Use ② 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.)



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.

A	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

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

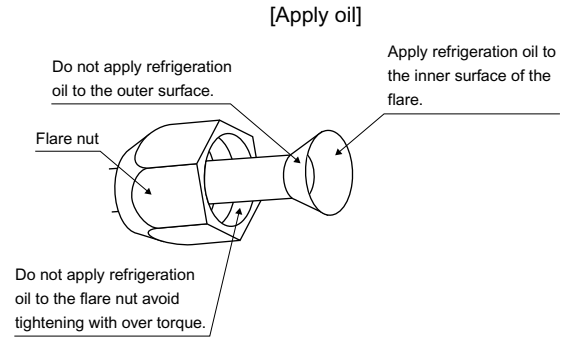
Outdoor Unit Installation

4. Refrigerant piping.

⚠ CAUTION

- 1) Use the flare nut fixed to the main unit. (To prevent cracking of the flare nut by aged deterioration.)
- 2) To prevent gas leakage, apply refrigeration oil only to the inner surface of the flare. (Use refrigeration oil for R410A.)
- 3) 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)

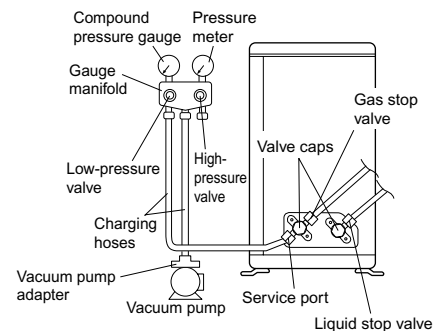
5. Purging air and checking gas leakage.

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

⚠ WARNING

- 1) Do not mix any substance other than the specified refrigerant (R410A) into the refrigeration cycle.
- 2) When refrigerant gas leaks occur, ventilate the room as soon and as much as possible.
- 3) R410A, as well as other refrigerants, should always be recovered and never be released directly into the environment.
- 4) 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).
(The vacuum pump should run for at least 10 min.)



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.)*1.



5) Remove covers 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. 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).

6. Refilling the refrigerant.

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

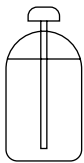
Precautions when adding R410A

Fill from the gas 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



Stand the cylinder upright when filling.

(There is a siphon pipe inside, so the cylinder need not be upside-down to fill with liquid.)

Filling other cylinders



Turn the cylinder upside-down when filling.

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

Outdoor Unit Installation

Important information regarding the refrigerant used

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

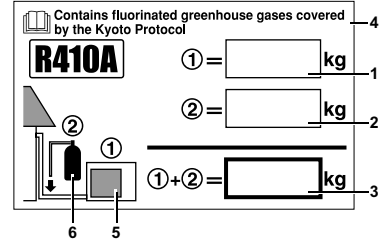
Refrigerant type: **R410A**

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.

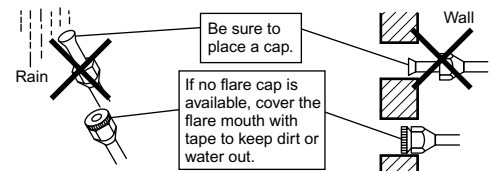
7-1 Cautions on pipe handling.

- 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.

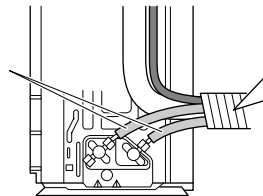
7-2 Selection of copper and heat insulation materials.

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

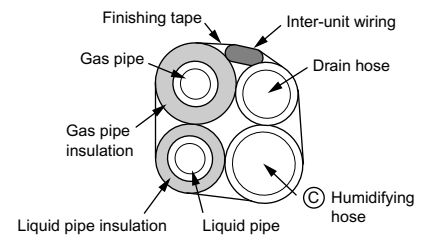
- 1) Insulation material: Polyethylene foam
Heat transfer rate: 0.041 to 0.052W/mK (0.035 to 0.045kcal/mh°C)
Refrigerant gas pipe's surface temperature reaches 110°C max.
Choose heat insulation materials that will withstand this temperature.
- 2) Be sure to insulate both the gas and liquid piping and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



Seal the edge of the insulation if there is a possibility that the condensation from the shut-off valve might drip onto the indoor unit through the gap between the insulation and the pipe.



Piping bundle diagram



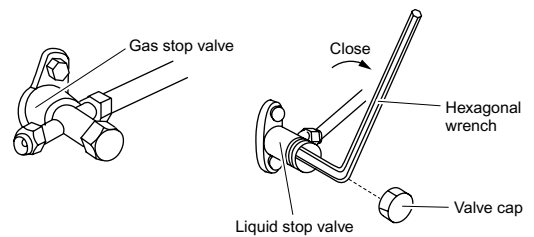
Gas side	Liquid side	Gas pipe thermal insulation	Liquid pipe thermal insulation
O.D. 9.5mm	O.D. 6.4mm	I.D. 12-15mm	I.D. 8-10mm
Minimum bend radius		Thickness 10mm Min.	
30mm or more			
Thickness 0.8mm (C1220T-O)			

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

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 five to ten minutes, close the liquid stop valve with a hexagonal wrench.
- 4) After two to three minutes, close the gas stop valve and stop forced cooling operation.



How to force cooling operation mode

■ Using the indoor unit operation/stop button

Press the indoor unit operation/stop button for at least five seconds.
(Operation will start.)

- Forced cooling operation will stop automatically after around 15 minutes.
To force a test run to stop, press the indoor unit operation/stop button.

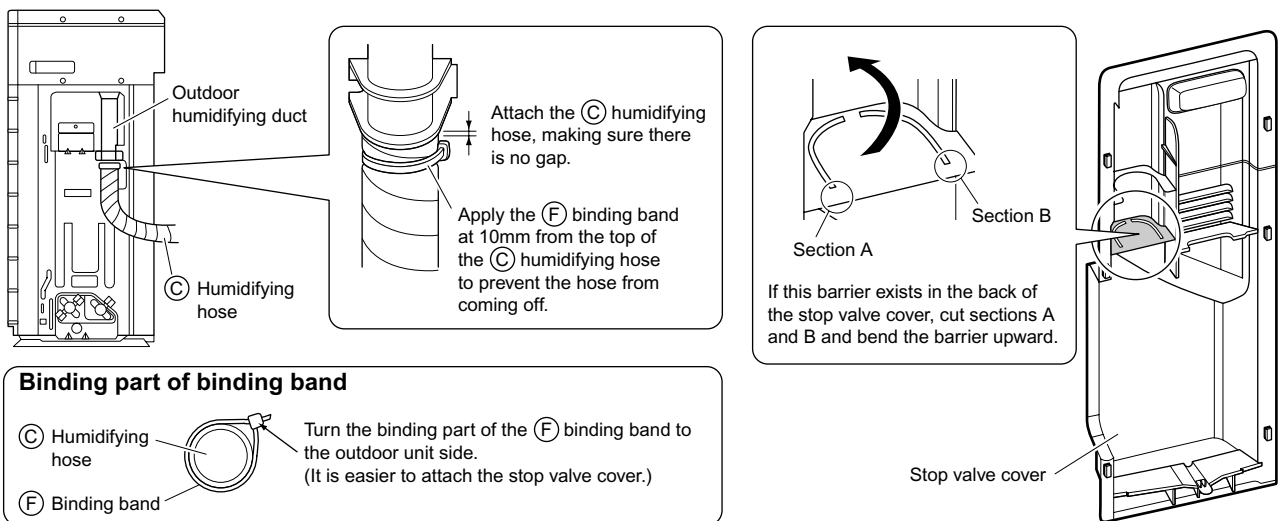
⚠ CAUTION

After closing the liquid stop valve, close the gas stop valve within three minutes, then stop the forced operation.

Connecting the Humidifying Hose

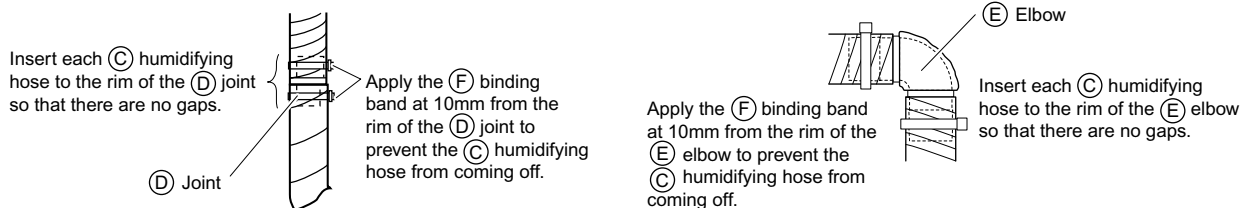
1. Connecting the humidifying hose.

- 1) Connect the (C) humidifying hose to the outdoor humidifying duct.
- 2) Apply a (F) binding band to prevent the (C) humidifying hose from coming off.



2. Connecting the cut humidifying hoses.

- When installing the cut (C) humidifying hoses, follow the instructions below.



- Use not more than 1 elbow to ensure humidifying capacity.

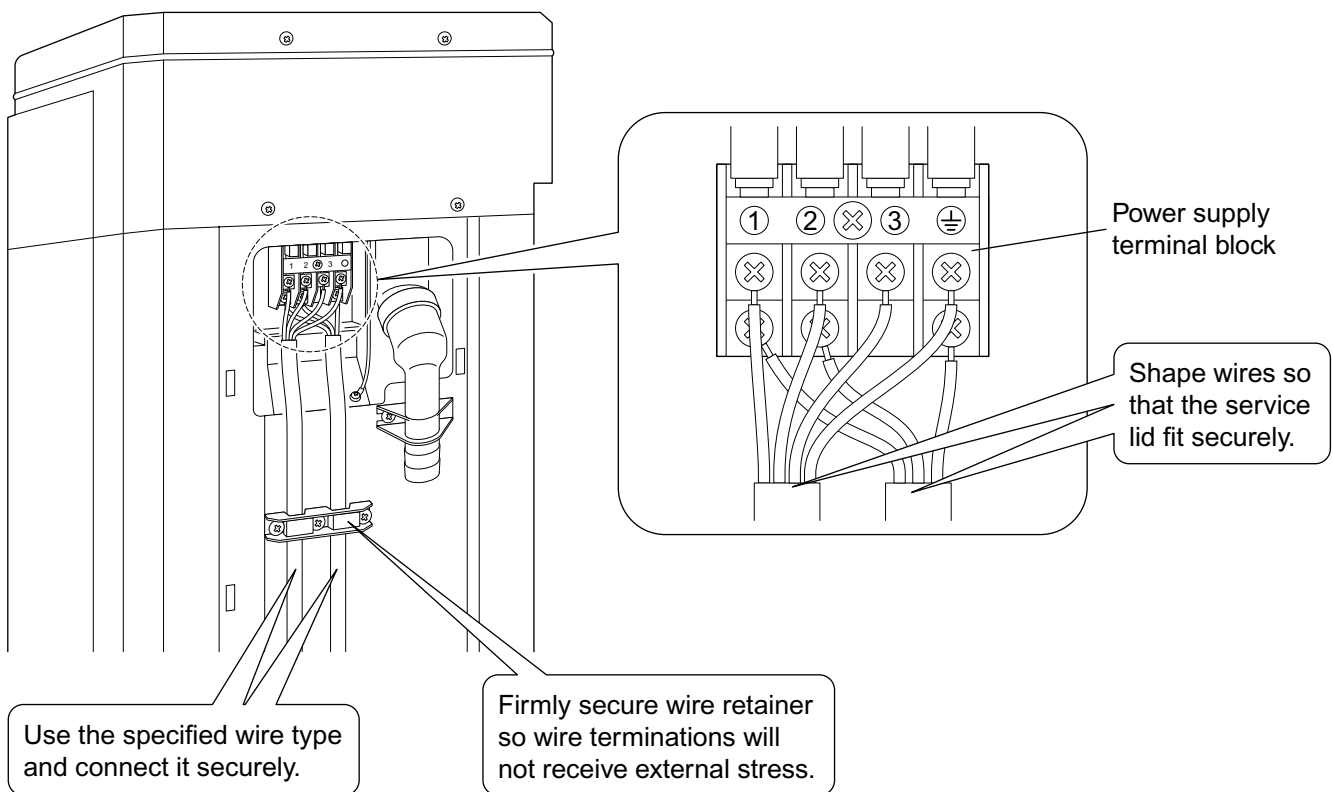
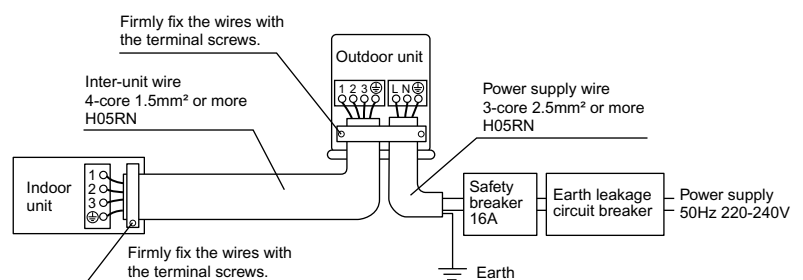
Wiring

⚠ WARNING

- 1) Do not use tapped wires, stranded wires (**CAUTION (1)**), extension cords, or starburst connections, as they may cause overheating, electrical shock, or fire.
- 2) 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.
- 3) 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.)
- 4) Use an all-pole disconnection type breaker with at least 3mm between the contact point gaps.
- 5) The earth leakage circuit breaker must operate at 30mA or lower.
- 6) 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.

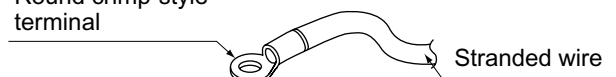


⚠ CAUTION (1)

In case using stranded wires is unavoidable for some reason, make sure to install the round crimp-style terminals on the tip.

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

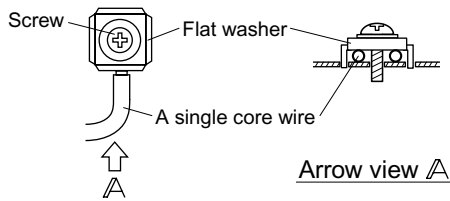
Round crimp-style terminal



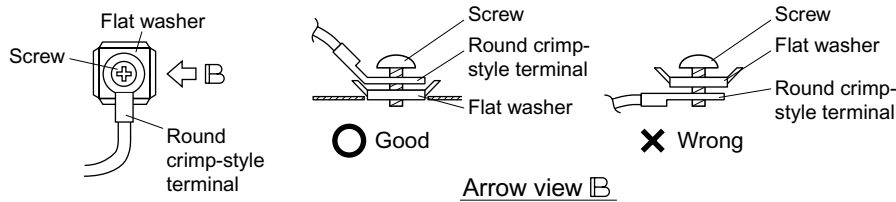
Stranded wire

<Ground terminal installation>

1) Use the following method when installing a single core wire.

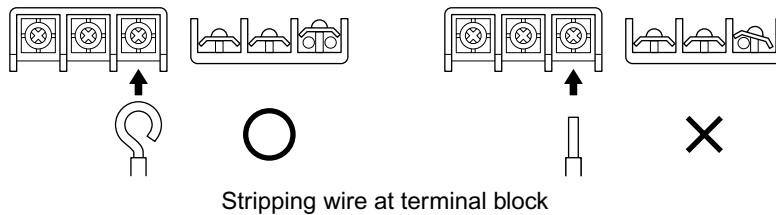


2) Use the following method when installing the round crimp-style terminal.



CAUTION (2)

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.



Test Run and Final Check

1. Trial operation and testing.

- Measure the supply voltage and make sure that it falls in the specified range.
- See “Test Run and Final Check” in the installation manual that came with the indoor unit for details on how to perform the test run and what to check for.

2. Test items.

Test Items	Symptom (diagnostic display on RC)	Check
Outdoor unit is installed properly on a solid base.	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 interconnecting wire connections.	Inoperative or burn damage	
Outdoor unit's air intake or exhaust has clear path of air. Stop valves are opened.	Incomplete cooling/heating function	

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for manufacturing.

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