



DAIKIN ROOM AIR CONDITIONER

INSTALLATION MANUAL

R410A Split Series



Installation manual Installationsanleitung Manuel d'installation Installatiehandleiding Manual de instalación Manuale di installazione Εγχειρίδιο εγκατάστασης Manual de instalação Руководство по монтажу Montaj kilavuzu

MODELS

FTXN25KEV1B FTXN35KEV1B

CE - DECLARATION-OF-CONFORMITY
CE - KONFORMITÄTSERKLARUNG
CE - DECLARATION-DE-CONFORMITE
CE - CONFORMITEITSVERKLARING

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CE - DECLARAÇÃO-DE-CONFORMIDADE CE - 3AABJIEHИE-O-COOTBETCTBИИ CE - OPFYLDELSESERKLÆRING CE - FÖRSÄKRAN-OM-ÖVERENSTÄMMELSE · DECLARACION-DE-CONFORMIDAD · DICHIARAZIONE-DI-CONFORMITA · ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ

CE - ERKLÆRING OM-SAMSVAR CE - ILMOITUS-YHDENMUKÄISUUDESTA CE - PROHLÁŠENÍ-O-SHODĚ

CE - IZJAVA-O-UŞKLAĐENOSTI CE - MEGFELELŐSÉGI-NYILATKOZAT CE - DEKLARACJA-ZGODNOŚCI CE - DECLARAŢIE-DE-CONFORMITATE

CE - IZJAVA O SKLADNOSTI CE - VASTAVUSDEKLARATSIOON CE - ДЕКЛАРАЦИЯ-3A-CЪOTBETCTBИE

CE - ATITIKTIES-DEKLARACIJA CE - ATBILSTIBAS-DEKLARĀCIJA CE - VYHLASENIE-ZHODY CE - UYUMLULUK-BILDIRĪSI

DAIKIN INDUSTRIES, LTD

01 (a) 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 Kilmageräte für die diese Erklärung besimmt ist.
03 © declare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclar ation:

Que werklaart hierbij op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft.
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11 💿 deklarerar i egenskap av huvudansvarig, att luftkonditioneringsmodellerna som berörs av denna deklaration innebär att: 10 ox erklærer under eneansvar, at klimaanlægmodellerne, som denne deklaration vedrører:

exidence et l'ulistendig ansvar for at de luftondisjoneringsmodeller som berones av denne deklarasjon innebærer at:
 exidence et l'ulistendig ansvar for at de luftondisjoneringsmodeller som berones av denne deklarasjon innebærer at:
 exidence av service de coproédinces, te av modely klimatizace, k innt as to top ordiséen ivztahuje:
 exidence av service depondences, te av model klima uredaja na koje se ova zipara ordossi.
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20 📾 kinnitab oma täielikul vastutusel, et käesoleva deklaratsiooni alla kuuluvad kliimaseadmete mudelid: 19 🐵 z vso odgovornostjo izjavlja, da so modeli klimatskih naprav, na katere se izjava nanaša:

во декларира на своя отговорност, че моделите климатична инсталация, за които се отнася тази декларация;
 Ф. visiška savo alsakomybe skelbia, kad oro kondicionavimo prielaisų modeliai, kuriems yra taikoma ši deklaracija;

23 😥 ar pilnu atbildību apliecina, ka tālāk uzskaitīto modeļu gaisa kondicionēlāji, uz kuriem attiecas šī deklarācija: 24 ® vyhlasuje na vlastnú zodpovednosť, že tieto klimatizačné modely, na ktoré sa vzťahuje toto vyhlásenie:

25 🕞 tamamen kendi sorumluluğunda olmak üzere bu bildirinin ilgili olduğu klima modellerinin aşağıdaki gibi olduğunu beyan eder:

FTXN25KEV1B, FTXN35KEV1B

01 are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our

02 deriden 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/aux 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 bindende documenten zijn, op voorwaarde dat ze worden gebruikt overeenkomstig

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 al(i) seguente(i) standard(s) o altro(i) documento(i) a carattere normativo, a patto che vengano usati in conformità alle

07 είναι σύμφωνα με το(α) ακόλουθο(α) πρότυπο(α) ή άλλο έγγραφο(α) κανονισμών, υπό την προϋπόθεση ότι χρησφοποιούνται σύμφωνα με τις οδηγίες μας

EN60335-2-40

13 noudattaen määräyksiä: 15 prema odredbama: 11 enligt villkoren i 16 követi a(z): 02 gental 8 der Vorschriften der:
03 conformément aux stipulations des:
04 overenkomstig de bepalingen van:
05 signiendo las dispositiones de:
05 secondo le prescrizioni per:
05 secondo le prescrizioni per:
06 secondo le prescrizioni per:
06 secondo com o previsio em: 09 в соответствии с положениями: 01 following the provisions of:

23 ievērojot prasības, kas noteiktas: 24 održiavajúc ustanovenia: 25 bunun koşullarina uygun olarak: 22 laikantis nuostatų, pateikiamų: 21 следвайки клаузите на: 19 ob upoštevanju določb: 20 vastavalt nõuetele: 10 under iagttagelse af bestemmelserne i: 12 gitt i henhold til bestemmelsene i: 14 za dodržení ustanovení předpisu:

17 zgodnie z postanowieniami Dyrektyw: 06 Nota* 18 în urma prevederilor: as set out in <A> and judged positively by

Note *

positivo de de acordo com o Certificado <C> όπως καθορίζεται στο <**Α>** και κρίνεται θετικά από το <**Β>** σύμφωνα με το Πιστοποιητικό <**C>**. tal como estabelecido em <A> e com o parecer som anført i <A> og positivt vurderet af i henhold til Certifikat <C> . delineato nel <a>A> e giudicato positivamente положительным решением согласно как указано в <А> и в соответствии с da secondo il Certificato <C>. Свидетельству <С>. 09 Примечание * Σημείωση * 10 Bemærk* 08 Nota* tel que défini dans <A> et évalué positivement par zoals vermeld in <A> en positief beoordeeld door wie in der aufgeführt und von positiv beurteilt gemäß Zertifikat <C>. como se establece en <a>A> y es valorado positivamente por <a>B> de acuerdo con el conformément au Certificat <C>. overeenkomstig Certificaat <C>. according to the Certificate <C>. Certificado <C>.

> 03 Remarque * 02 Hinweis*

04 Bemerk *

Nota *

08 estão em conformidade com a(s) seguinte(s) norma(s) ou outro(s) documento(s) normativo(s), desde que estes sejam utilizados de acordo com as nossas instruções:

09 соответствуют следующим стандартам или другим нормативным документам, при условии их использования согласно нашим инструкциям

10 overholder falgende standard(er) eller andet/andre retningsgivende dokument(er), forudsat at disse anvendes i henhold til vore instrukser:

11 respektive utrustning är utförd i överensstämmelse med och följen följande standard(er) eller andra normgivande dokument, under 12 respektive utstyr er i overensstemmelse med følgende standard(er) eller andre normgivende dokument(er), under forutssetning av at förutsättning att användning sker i överensstämmelse med våra instruktioner:

13 vastaavat seuraavien standardien ja muiden ohjeellisten dokumenttien vaatimuksia edellyttäen, että niitä käytetään ohjeidemme disse brukes i henhold til våre instrukser: mukaisesti:

15 u skladu sa slijedećim standardom(ima) ili drugim normativnim dokumentom(ima), uz uvjet da se oni koriste u skladu s našim uputama: 14 za předpokladu, že jsou využívány v souladu s našími pokyny, odpovídají následujícím normám nebo normatívním dokumentům:

17 spelniają wymogi następujących norm i innych dokumentów normalizacyjnych, pod warunkiem że używane są zgodnie z naszymi 18 sunt în conformitate cu următorul (următoarele) standard(e) sau alt(e) document(e) normativ(e), cu condiția ca acestea să fie utilizate în 16 megfelelnek az alábbi szabvány/ok)nak vagy egyéb irányadó dokumentum(ok)nak, ha azokat előírás szerint használják:

21 съответстват на следните стандарти или други нормативни документи, при условие, че се използват съгласно нашите 20 on vastavuses järgmis(t)e standardi(te)ga või teiste normatiivsete dokumentidega, kui neid kasutatakse vastavalt meie juhenditele: 22 atitinka žemiau nurodytus standartus ir (arba) kitus norminius dokumentus su sąlyga, kad yra naudojami pagal mūsų nurodymus: инструкции:

19 skladni z naslednjimi standardi in drugimi normativi, pod pogojem, da se uporabljajo v skladu z našimi navodili:

conformitate cu instructiunile noastre

24 sú v zhode s nasledovnou(ými) normou(ami) alebo iným(i) normatívnym(i) dokumentom(ami), za predpokladu, že sa používajú v súlade 23 tad, ja lietoti atbilstoši ražotāja norādījumiem, atbilst sekojošiem standartiem un citiem normatīviem dokumentiem: s našim návodom:

25 ürünün, talimatlarımıza göre kullanılması koşuluyla aşağıdaki standartlar ve norm belirten belgelerle uyumludur.

Electromagnetic Compatibility 2004/108/EC Low Voltage 2006/95/EC

21 Забележка* 08 Directivas, conforme alteração em. 09 Директив со всеми поправками. a(z) <A> alapján, a(z) igazolta a megfelelést, a(z) <C> tanúsítvány szerint.

16 Megjegyzés*

enligt <A> och godkänts av enligt

Information *

Certifikatet <C>

17 Uwaga*

som det fremkommer i <A> og gjennom positiv bedømmelse av ifølge Sertifikat <C>. hyvāksynyt Sertifikaatin <C> mukaisesti.

12 Merk * 13 Huom *

18 Notă*

25 Değiştirilmiş halleriyle Yönetmelikler.

16 irányelv(ek) és módosításaik rendelkezéseit.

15 Smjernice, kako je izmijenjeno.

05 Directivas, según lo enmendado. **06** Direttive, come da modifica. **07** Οδηγιών, όπως έχουν τροποποιηθεί.

02 Direktiven, gemäß Anderung. 03 Directives, telles que modifiées. 04 Richtlinen, zoals geamendeerd.

14 v platném znění.

18 Directivelor, cu amendamentele respective

както е изложено в <Д> и оценено

17 z późniejszymi poprawkami.

23 Direktīvās un to papildinājumos.

24 Smemice, v platnom znení.

22 Direktyvose su papildymais.

Direktiivejä, sellaisina kuin ne ovat muutettuina.

10 Direktiver, med senere ændringer. 11 Direktiv, med företagna ändringar. 12 Direktiver, med foretatte endringer

21 Директиви, с техните изменения.

20 Direktiivid koos muudatustega.

kaip nustatyta <A> ir kaip teigiamai nuspręsta положително от съгласно pagal Sertifikata <C>. Сертификата <С> 23 Piezīmes * 22 Pastaba* zgodnie z dokumentacją <A>, pozytywną opinią i Świadectwem <C>. aşa cum este stabilit în <A> şi apreciat pozitiv de în conformitate cu Certificatul <C>

kā norādīts <A> un atbilstoši pozitīvajam vērtējumam saskanā ar sertifikātu <C>. súlade s osvedčením <C> Poznámka * ∗ Not 77 22 kot je določeno v <A> in odobreno s strani v nagu on näidatud dokumendis <A> ja heaks kiidetud järgi vastavalt sertifikaadile <C>.

skladu s certifikatom <C>.

19 Opomba *

jak bylo uvedeno v <A> a pozitívně zjištěno v jotka on esitetty asiakirjassa <A> ja jotka on

> 14 Poznámka * Napomena *

souladu s osvědčením <C>

Märkus *

kako je izloženo u <A> i pozitivno ocijenjeno od strane prema Certifikatu <C>.

ako bolo uvedené v <A> a pozitívne zistené v <A>'da belirtildiği gibi ve <C> Sertifikasına göre tarafından olumlu olarak Jeğerlendirildiği gibi.

<A> DAIKIN.TCF.015 N5/11-2010 KEMA Quality B.V.

74736-KRQ/EMC97-4957 ပွဲ ę

DAIKIN

Manager Quality Control Department Shinri Sada

C

2010

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

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

MARNING......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.

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
- 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.

Accessories

Indoor unit A - K,

Mounting plate	1	E Remote controller holder	1	(J) Operation manual	1
B Mounting plate fixing screw (M4 × 25L)	6	F Fixing screw for remote controller holder (M3 × 20L)	2	(K) Installation manual	1
Titanium apatite photocatalytic air-purifying filter	2	© Dry battery AAA. LR03 (alkaline)	2		
Wireless remote controller	1	(H) Indoor unit fixing screw (M4 × 12L)	2		

Choosing an Installation Site

• Before choosing the installation site, obtain user approval.

1. Indoor unit

- The indoor unit should be sited in a place where:
 - 1) the restrictions on installation specified in the indoor unit installation drawings are met,
 - 2) both air inlet and air outlet have clear paths met,
 - 3) the unit is not in the path of direct sunlight,
 - 4) the unit is away from the source of heat or steam,
 - 5) there is no source of machine oil vapour (this may shorten indoor unit life),
 - 6) cool (warm) air is circulated throughout the room,
 - 7) the unit is away from electronic ignition type fluorescent lamps (inverter or rapid start type) as they may shorten the remote controller range,
 - 8) the unit is at least 1m away from any television or radio set (unit may cause interference with the picture or sound),
 - 9) install at the recommended height (1.8m),
- 10) no laundry equipment is located.

2. Wireless remote controller

• Turn on all the fluorescent lamps in the room, if any, and find the site where remote controller signals are properly received by the indoor unit (within 7m).

Installation Tips

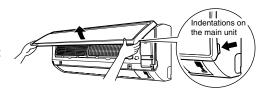
Removing and installing front panel

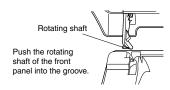
Removal method

- 1) Place your fingers in the indentations on the main unit (one each on the left and right sides), and open the panel until it stops.
- 2) Continue to open the front panel further while sliding the panel to the right and pulling it toward you in order to disengage the rotating shaft on the left side. To disengage the rotating shaft on the right side, slide the panel to the left while pulling it toward you.

Installation method

Align the tabs of the front panel with the grooves, and push all the way in. Then close slowly. Push the center of the lower surface of the panel firmly to engage the



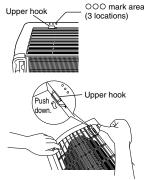


Removing and installing front grille

Removal method

- 1) Remove front panel to remove the air filter.
- 2) Remove the screws (2) from the front grille.
- 3) In front of the OOO mark of the front grille, there are 3 upper hooks. Lightly pull the front grille toward you with one hand, and push down on the hooks with the fingers of your other hand.





1) Push up.

When there is no work space because the unit is close to ceiling

↑ CAUTION

· Be sure to wear protection gloves.

Place both hands under the center of the front grille, and while pushing up, pull it toward you.

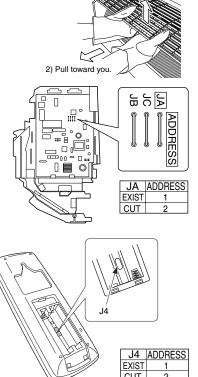
Installation method

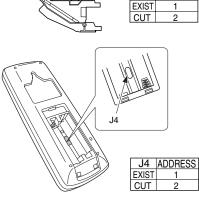
- 1) Install the front grille and firmly engage the upper hooks (3 locations).
- 2) Install 2 screws of the front grille.
- 3) Install the air filter and then mount the front panel.

3. How to set the different addresses

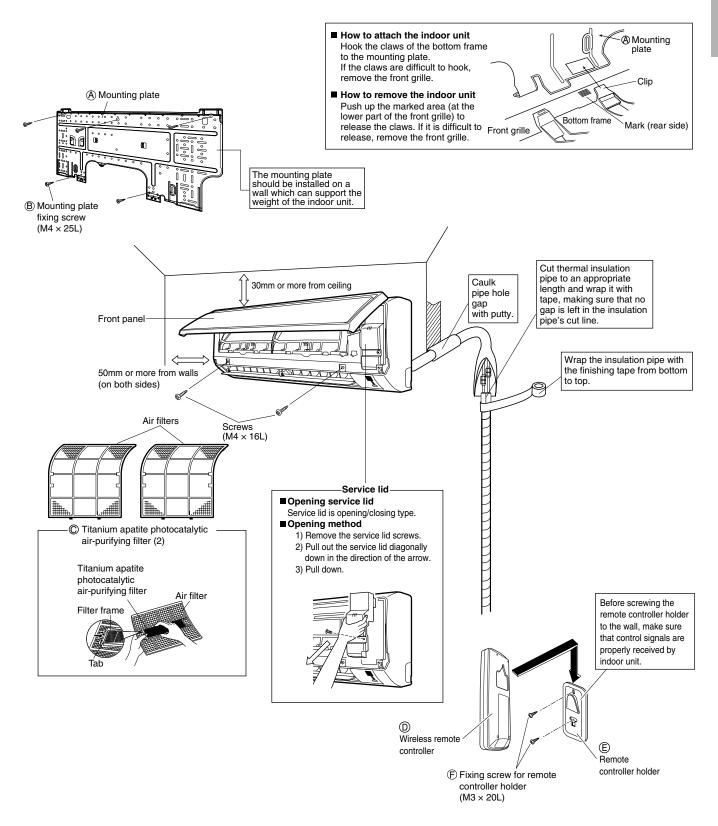
When two indoor units are installed in one room, the two wireless remote controllers can be set for different addresses.

- 1) In the same way as when connecting to an HA system, remove the metal plate electrical wiring cover.
- 2) Cut the address jumper (JA) on the printed circuit board.
- 3) Cut the address jumper (J4) in the remote controller.





Indoor Unit Installation Drawings

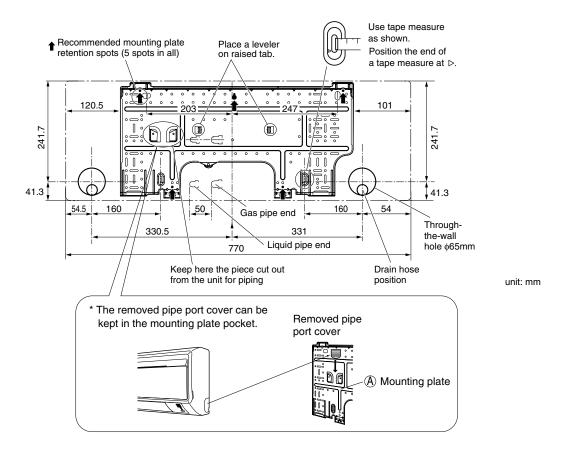


Indoor Unit Installation

1. Installing the mounting plate

- The mounting plate should be installed on a wall which can support the weight of the indoor unit.
 - 1) Temporarily secure the mounting plate to the wall, make sure that the panel is completely level, and mark the boring points on the wall.
 - 2) Secure the mounting plate to the wall with screws.

Recommended mounting plate retention spots and dimensions



2. Boring a wall hole and installing wall embedded pipe

- For walls containing metal frame or metal board, be sure to use a wall
 embedded pipe and wall cover in the feed-through hole to prevent possible
 heat, electrical shock, or fire.
- Be sure to caulk the gaps around the pipes with caulking material to prevent water leakage.
 - Bore a feed-through hole of 65mm in the wall so it has a down slope toward the outside.
 - 2) Insert a wall pipe into the hole.
 - 3) Insert a wall cover into wall pipe.
 - 4) After completing refrigerant piping, wiring, and drain piping, caulk pipe hole gap with putty.

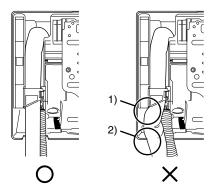
Wall embedded pipe (field supply) Caulking Wall hole cover (field supply) Wall embedded pipe (field supply)

3. Installing indoor unit

 In the case of bending or curing refrigerant pipes, keep the following precautions in mind.

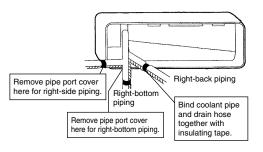
Abnormal sound may be generated if improper work is conducted.

- 1) Do not strongly press the refrigerant pipes onto the bottom frame.
- 2) Do not strongly press the refrigerant pipes on the front grille, either.

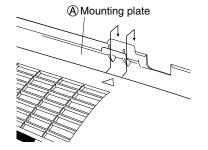


3-1. Right-side, right-back, or right-bottom piping

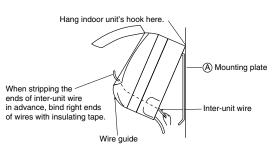
- 1) Attach the drain hose to the underside of the refrigerant pipes with adhesive vinyl tape.
- 2) Wrap the refrigerant pipes and drain hose together with insulation tape.



3) Pass the drain hose and refrigerant pipes through the wall hole, then set the indoor unit on the mounting plate hooks by using the \triangle markings at the top of the indoor unit as a guide.

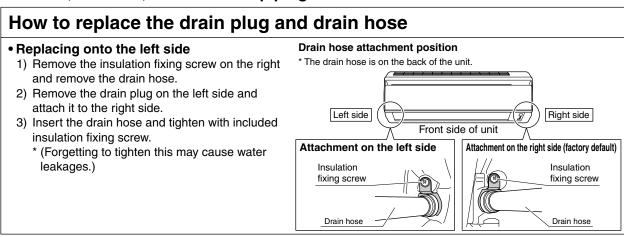


- 4) Open the front panel, then open the service lid. (Refer to installation tips.)
- 5) Pass the inter-unit wire from the outdoor unit through the feedthrough wall hole and then through the back of the indoor unit. Pull them through the front side. Bend the ends of tie wires upward for easier work in advance. (If the inter-unit wire ends are to be stripped first, bundle wire ends with adhesive tape.)
- 6) Press the bottom frame of the indoor unit with both hands to set it on the mounting plate hooks. Make sure the wires do not catch on the edge of the indoor unit.

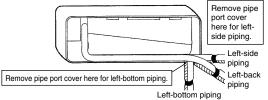


Indoor Unit Installation

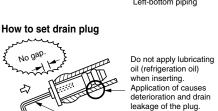
3-2. Left-side, left-back, or left-bottom piping



1) Attach the drain hose to the underside of the refrigerant pipes with adhesive vinyl tape.



2) Be sure to connect the drain hose to the drain port in place of a drain plug.



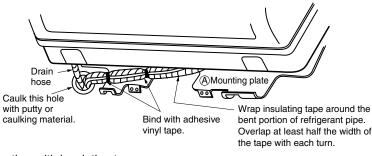
Insert a hexagonal wrench (4mm).

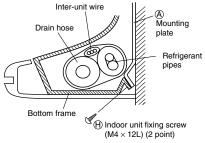
- 3) Shape the refrigerant pipe along the pipe path marking on the mounting plate.
- 4) Pass drain hose and refrigerant pipes through the wall hole, then set the indoor unit on mounting plate hooks, using the ∆ markings at the top of indoor unit as a guide.
- 5) Pull in the inter-unit wire.
- 6) Connect the inter-unit pipes.
- 7) Wrap the refrigerant pipes and drain hose together with insulation tape as right figure, in case of setting the drain hose through the back of the indoor unit
- 8) While exercising care so that the inter-unit wire do not catch indoor unit, press the bottom edge of indoor unit with both hands until it is firmly caught by the mounting plate hooks. Secure indoor unit to the mounting plate with indoor unit fixing screws (M4 × 12L).

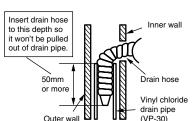
3-3. Wall embedded piping

Follow the instructions given under left-side, left-back, or left-bottom piping.

1) Insert the drain hose to this depth so it won't be pulled out of the drain pipe.

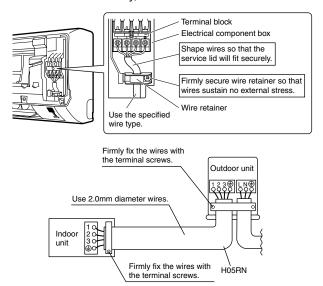






4. Wiring

- 1) Strip wire ends (15mm).
- 2) Match wire colours with terminal numbers on indoor and outdoor unit's terminal blocks and firmly screw wires to the corresponding terminals.
- 3) Connect the earth wires to the corresponding terminals.
- 4) Pull wires to make sure that they are securely latched up, then retain wires with wire retainer.
- 5) Shape the wires so that the service lid fits securely, then close service lid.



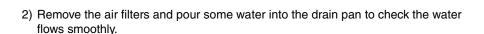
MARNING

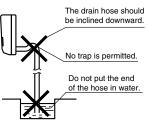
- Do not use tapped wires, stranded wires, extension cords, or starburst connections, as they may cause overheating, electrical shock, or fire.
- Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so may cause electric shock or fire.
- Do not connect the power wire to the indoor unit. Doing so may cause electric shock or fire.

Indoor Unit Installation

5. Drain piping

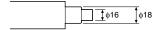
1) Connect the drain hose, as described right.



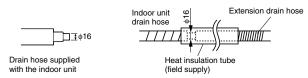




3) If drain hose extension or embedded drain piping is required, use appropriate parts that match the hose front end. [Figure of hose front end]



4) When extending the drain hose, use a commercially available extension hose with an inner diameter of 16mm. Be sure to thermally insulate the indoor section of the extension hose.



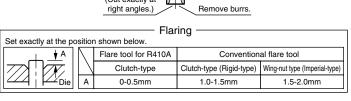
5) When connecting a rigid polyvinyl chloride pipe (nominal diameter 13mm) directly to the drain hose attached to the indoor unit as with embedded piping work, use any commercially available drain socket (nominal diameter 13mm) as a joint.

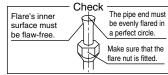


Refrigerant Piping Work

Flaring the pipe end

- 1) Cut the pipe end with a pipe cutter.
- 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.





⚠ WARNING

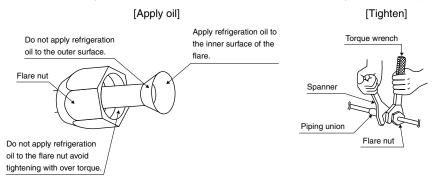
- Do not use mineral oil on flared part.
- Prevent mineral oil from getting into the system as this would reduce the lifetime of the units.
- Never use piping which has been used for previous installations. Only use parts which are delivered with the unit.
- Do never install a drier to this R410A unit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

2. 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	14.2-17.2N • m			
(330-407kgf • cm)	(144-175kgf • cm)			

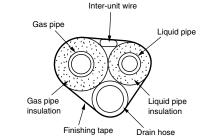
2-1. Caution on piping handling

- 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.



2-2. Selection of copper and heat insulation materials

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



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 b	end radius	Thickness 10mm Min.		
30mm (or more			
Thickness 0.8m	nm (C1220T-O)			

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

Trial Operation and Testing

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. Use the remote controller for trial operation as described below.
 - 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.

Trial operation from remote controller

- 1) Press "ON/OFF" button to turn on the system.
- 2) Press "TEMP" button (2 locations) and "MODE" button at the same time.
- 3) Press "MODE" button twice and select " 7-".
- 4) Trial operation terminates in approx. 30 minutes and switches into normal mode. To quit a trial operation, press "ON/OFF" button.

2. Test items

Test items	Symptom (diagnostic display on RC)	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 air outlet has clear path of air. Stop valves are opened.	Incomplete cooling/heating function	
Indoor unit properly receives remote control commands.	Inoperative	

DAIKIN INDUSTRIES, LTD.

DAIKIN EUROPE NV

Head office: Umeda Center Bldg., 2-4-12, Nakazaki-Nishi,

Kita-ku, Osaka, 530-8323 Japan

JR Shinagawa East Bldg., 2-18-1, Konan, Minato-ku, Tokyo, 108-0075 Japan http://www.daikin.com/global_ac/

Zandvoordestraat 300, B-8400 Oostende, Belgium

