

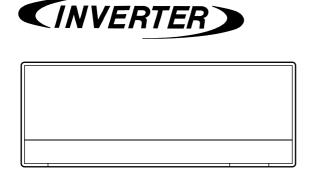
Models

FTXG25EV1BW

FTXG35EV1BW

INSTALLATION MANUAL

R410A Split Series



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

> Montaj kılavuzları R410A Split serisi

Русский

Türkçe

CTXG50EV1BS CTXG50EV1BW ATXG25EV1B ATXG35EV1B ATXG50EV1B

FTXG25EV1BS

FTXG35EV1BS

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

· DECLARACION-DE-CONFORMIDAD · DICHIARAZIONE-DI-CONFORMITA · ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ .

CE - DECLARAÇÃO-DE-CONFORMIDADE CE - 3ARBJIEHИE-O-COOTBETCTBИИ CE - OPFYLDELSESERKLÆRING CE - FÖRSÄKRAN-OM-ÖVERENSTÄMMELSE

CE - ERKLÆRING OM-SAMSVAR CE - ILMOITUS-YHDENMUKAISUUDESTA CE - PROHLAŠENÍ-O-SHODĚ

CE - IZJAVA-O-UŞKLADENOSTI CE - MEGFELELÖSÉGI-NYILATKOZAT CE - DEKLARACJA-ZGODNOŠCI CE - DECLARAŢIE-DE-CONFORMITATE

IZJAVA O SKLADNOSTI VASTAVUSDEKLARATSIOON GEKTIAPALIVR-3A-CЪOTBETCTBNE ម៉ូម៉ូម៉ូ

CE - ATTIKTIES-DEKLARACIJA CE - ATBILSTIBAS-DEKLARĀCIJA CE - VYHLÁSENIE-ZHODY CE - UYUMLULUK-BILDIRĪSI

DAIKIN INDUSTRIES, LTD.

declares under its sole responsibility that the air conditioning models to which this declar ation relates:

02 © erklärt auf seine alleinige Verantwortung daß die Modelle der Klimageräte für die diese Er klärung bestimmt ist.
03 © dekare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclar ation:

04 @. verklaart hierbij op eigen exclusiere verantwoordelijkheid dat de airoonditioning units waarop deze verklaring betrekking heeft.
 05 @. declara baja su única responsabilidad que los modelos de airo acondicionado a los cuales hace referencia la declaración:
 06 ⊙ dichiara sotto sua responsabilità che i condizionatori modello a cui è riferita questa dichiarazione:

📵 δηλώνει με αποκλειστική της ευθύνη ότι τα μοντέλα των κλιματιστικών συσκευών στα οποία αναφέρεται η παρούσα δήλωση: Š 08 (P) declara sob sua exclusiva responsabilidade que os modelos de ar condicionado a que esta declaração se refere:

09 🝩 заявляет, исключительно под свою ответственность, что модели кондиционеров воздуха, к которым относится настоящее заявление:

CTXG50EV1BW, CTXG50EV1BS, ATXG25EV1B, ATXG35EV1B, ATXG50EV1B FTXG25EV1BW, FTXG35EV1BW, FTXG25EV1BS, FTXG35EV1BS,

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

02 der/den 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 onze instructies:

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 nuestras instrucciones: nostre istruzioni:

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

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 нашии

11 respektive utrustning är utförd i överensstämmelse med och följer följande standard(er) eller andra normgivande dokument, under förutsättning att användning sker i överensstämmelse med våra instruktioner:

mukaisesti:

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:

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

21 (вс) декларира на своя отговорност, че моделите климатична инсталация, за които се отнася тази декларация:

20 🖘 kinnitab oma täielikul vastutusel, et käesoleva deklaratsiooni alla kuuluvad kliimaseadmete mudelid:

11 (s) deklarerar i egenskap av huvudansvarig, att luftkonditioneringsmodellerna som berörs av denna deklaration innebär att:

10
o
erklærer under eneansvar, at klimaanlægmodellerne, som denne deklaration vedrører:

12 (v) erklærer et fullstendig ansvar for at de luftkondisjoneringsmodeller som berøres av denne deklarasjon innebærer at:

17 🖭 deklaruje na własną i wyłączną odpowiedzialność, że modele klimatyzatorów, których dotyczy niniejsza deklaracja:

18 (no) declară pe proprie răspundere că aparatele de aer condiționat la care se referă această declarație:

16 (H) teljes felelőssége tudatában kijelenti, hogy a klímaberendezés modellek, melyekre e nyilatkozat vonatkozik:

15 (n. izjavljuje pod isključivo vlastitom odgovornošću da su modeli klima uređaja na koje se ova izjava odnosi: 13 🙉 ilmoittaa yksinomaan omalla vastuullaan, että tämän ilmoituksen tarkoittamat ilmastointilaitteiden mallit:

14 🖘 prohlašuje ve své plné odpovědnosti, že modely klimatizace, k nimž se toto prohlášení vztahuje:

19 🖘 z vso odgovornostjo izjavlja, da so modeli klimatskih naprav, na katere se izjava nanaša:

22 🗷 visiška savo atsakomybe skelbia, kad oro kondicionavimo prietaisų modeliai, kuriems yra taikoma ši deklaracija:

23 🗷 ar pilnu atbildību apliecina, ka tālāk uzskaitīto modeļu gaisa kondicionētāji, uz kuriem attiecas šī deklarācija:

24 🕸 vyhlasuje na vlastnú zodpovednosť, že tieto klimatizačné modely, na ktoré sa vzťahuje toto vyhlásenie:

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

21 съответстват на следните стандарти или други нормативни документи, при условие, че се използват съгласно нашите 20 on vastavuses järgmist tie standardirte) aa või teiste normatiivsete dokumentidega, kui neid kasutatakse vastavalt meie juhenditele;

24 sú v zhode s nasledovnou(ými) normou(ami) alebo iným(i) normatívnym(i) dokumentom(ami), za predpokladu, že sa používajú v súlade 22 attinka žemiau nurodytus standartus ir (arba) kitus norminius dokumentus su sąlyga, kad yra naudojami pagal mūsų nurodymus: 23 tad, ja lietoti atbilstoši ražotāja norādījumiem, atbilst sekojošiem standartiem un citiem normatīviem dokumentiem:

25 ürünün, talimatlarımıza göre kullanılması koşuluyla aşağıdaki standartlar ve norm belirten belgelerle uyumludur. s našim návodom:

EN60335-2-40

19 ob upoštevanju določb: 10 under iagttagelse af bestemmelserne i: 17 zgodnie z postanowieniami Dyrektyw: 12 gitt i henhold til bestemmelsene i: 14 za dodržení ustanovení předpisu: 13 noudattaen määräyksiä: 15 prema odredbama: 11 enligt villkoren 16 követi a(z): 03 conformément aux stipulations des: 04 overeenkomstig de bepalingen van: 07 με τήρηση των διατάξεων των: 05 siguiendo las disposiciones de: 08 de acordo com o previsto em: 02 gemäß den Vorschriften der: 06 secondo le prescrizioni per: 01 following the provisions of:

23 ievērojot prasības, kas noteiktas: 25 bunun koşullarına uygun olarak: 22 laikantis nuostatų, pateikiamų: 21 следвайки клаузите на: 24 održiavajúc ustanovenia: 20 vastavalt nõuetele:

18 în urma prevederilor: 09 в соответствии с положениями:

wie in der Technischen Konstruktionsakte Daikin. TCF.015 aufgeführt und von KEMA positiv ausgezeichnet gemäß as set out in the Technical Construction File Daikin.TCF.015 and judged positively by KEMA according to the Certificate 74736-KRQ/EMC97-4957. Zertifikat 74736-KRQ/EMC97-4957. 02 Hinweis* Note *

tel que stipulé dans le Fichier de Construction Technique **Dalkin.T.CF.015** et jugé positivement par KEMA conformément au Certificat 74736-KROJEMC97-4957. zoals vermeld in het Technisch Constructiedossier Daikin. TCF.015 en in orde bevonden door KEMA overeenkomstig Certificaat 74736-KRQ/EMC97-4957. 04 Bemerk*

Remarque *

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tal como se expone en el Archivo de Construcción Técnica Daikin TCF.015 y juzgado positivamente por KEMA según delineato nel File Tecnico di Costruzione Daikin.TCF.015 e giudicato positivamente da KEMA secondo il Certificato 74736-KRQ/EMC97-4957. el Certificado 74736-KRQ/EMC97-4957. 05 Nota* 06 Nota*

όπως προσδιορίζεται στο Αρχείο Τεχνικής Κατασκευής **Daikin.TCF.015** και κρίνεται θετικά από το **KEMA** σύμφωνα με το tal como estabelecido no Ficheiro Técnico de Construção Dalkin.TCF.015 e com o parecer positivo de KEMA de acordo com o как указано в Досье тежического толкования Daikin.TGF015 и в соответствии с положительным решением KEMA соответо Свидетельству 74736-КRO/EMC97-4957. **1ιστοποιητικό 74736-ΚRQ/EMC97-4957.** Certificado 74736-KRQ/EMC97-4957. Примечание 07 Σημείωση ' 08 Nota *

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10 overholder følgende standard(er) eller andet/andre retningsgivende dokument(er), forudsat at disse anvendes i henhold til vore 12 respektive utstyr er i overensstemmelse med følgende standard(er) eller andre normgivende dokument(er), under forutssetning av at 13 vastaavat seuraavien standardien ja muiden ohjeellisten dokumenttien vaatimuksia edellyttäen, että niitä käytetään ohjeidemme 15 u skladu sa slijedećim standardom(ima) ili drugim normativnim dokumentom(ima), uz uvjet da se oni koriste u skladu s našim uputama: disse brukes i henhold til våre instrukser: инструкциям: instrukser:

 Direktiiveiä, sellaisina kuin ne ovat muutettuina. Direktiver, med senere ændringer. 12 Direktiver, med foretatte endringer 11 Direktiv, med företagna ändringar. 15 Smjernice, kako je izmijenjeno. 14 v platném znění. 05 Directivas, según lo enmendado. 03 Directives, telles que modifiées. 04 Richtlijnen, zoals geamendeerd. 02 Direktiven, gemäß Änderung. 06 Direttive, come da modifica. 01 Directives, as amended.

18 Directivelor, cu amendamentele respective. 17 z późniejszymi poprawkami. 07 Οδηγιών, όπως έχουν τροποποιηθεί. 08 Directivas, conforme alteração em. 09 Директив со всеми поправками. 19 Opomba *

25 Değiştirilmiş halleriyle Yönetmelikler.

16 irányelv(ek) és módosításaik rendelkezéseit.

24 Smernice, v platnom znení.

21 Директиви, с техните изменения. 19 Direktive z vsemi spremembami.

23 Direktīvās un to papildinājumos. Direktiivid koos muudatustega.

22 Direktyvose su papildymais.

kot je določeno v tehnični mapi Dalkin.TCF.015 in odobreno s strani KEMA v skladu s certifikatom 74736-KRQ/EMC97-4957

както е заложено в Акта за техническа конструкция **Daikin.TCF**015 и оценено положително от KEMA сългасно Сертификат 74736-KRO/EMC97-4957. nagu on näidatud tehnilises dokumentalsioonis **Dalkin.TCF.015** ja heaks kiidetud **KEMA** järgi vastavalt sertifikaadile 74736-KRO/EMOS7.4957. kaip nurodyta Techninėje konstrukcijos byloje Dalkin.TCF.015 ir patvirtinta KEMA pagal 21 Забележка * 22 Pastaba* som det fremkommer i den Tekniske Konstruksjonsfillen **Daikin.TCF.015** og gjernom positiv bedømmelse av **KEMA** lidge Sertifikat 74736-KRO/EMC97-4957.

20 Märkus*

utrustningen är utförd i enlighet med den Tekniska Konstruktionsfilen Daikin. TCF.015 som positivt intygas av KEMA vilket också

framgår av Certifikat 74736-KRQ/EMC97-4957.

til Certifikat 74736-KRQ/EMC97-4957.

11 Information *

Bemærk *

som anført i den Tekniske Konstruktionsfil Daikin. TCF.015 og positivt vurderet af KEMA i henhold

Electromagnetic Compatibility 89/336/EEC

Machinery Safety 98/37/EEC Low Voltage 73/23/EEC

kā noteikts tehniskajā dokumentācijā Dalkin.TCF.015, atbilstoši KEMA pozitīvajam lēmumam ko apliecina ako je to stanovené v Súbore technickej konštrukcie Dalkin. TCF.015 a kladne posúdené KEMA podľa Certifikátu 74736-KRO/EMC97-4957. sertifikāts 74736-K RQ/EMC97-4957. 24 Poznámka * 23 Piezīmes*

pażymėjimą 74736-KRQ/EMC97-4957.

Daikin.TCF.015 Teknik Yapı Dosyasında belirtildiği gibi ve 74736-KRQ/EMC97-4957 sertifikasına göre KEMA tarafından olumlu olarak değerlendirilmiştir. * ĕ

DAIKIN

Manager Quality Control Department Shiga, 1st of Nov. 2005 Noboru Murata

conform celor stabilite în Dosarul fehnic de construcție **Daikin.TCF.015** și apreciate pozitiv de **KEMA** în conformitate cu Certificatul 747364/RQJEMC97-4957.

kako je izloženo u Datoteci o tehniškoj konstrukciji **Dalkin.TCF.015** i pozitivno odjenjeno od strane **KEMA** prema Certifikau 74736-KRQIEMC974957.

a(z) Dalkin,TCF.015 műszaki konstrukciós dokumentáció alapján, a(z) KEMA igazolta a megfelelést a(z) 74736-KRQ/EMC97-4957 tanúsítvány szerint.

16 Megjegyzés*

17 Uwaga*

Notă* **e**

zgodnie z archiwalną dokumentacją konstrukcyjną Daikin.TCF.015 pozytywną opinią KEMA

Świadectwem 74736-KRQ/EMC97-4957.

jak bylo uvedeno v souboru technické konstrukce Daikin. TCF.015 a pozitivně zjištěno KEMA v souladu

jotka on esitetty Teknisessä Asiakirjassa Daikin.TCF.015 ja jotka KEMA on hyväksynyt

Sertifikaatin 74736-KRQ/EMC97-4957 mukaisesti.

s osvědčením 74736-KRQ/EMC97-4957.

14 Poznámka* 15 Napomena*

13 Huom * Merk *

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

Safety Precautions

- Read these Safety Precautions carefully to ensure correct installation.
- This manual classifies the precautions into WARNING and CAUTION. Be sure to follow all the precautions below: they are all important for ensuring safety.

WARNING......Failure to follow any of WARNING is likely to result in such grave consequences as death or serious injury.

CAUTION.....Failure to follow any of CAUTION may in some cases result in grave consequences.

The following safety symbols are used throughout this manual:

Be sure to observe this instruction.

Be sure to establish an earth connection.

Never attempt.

After completing installation, test the unit to check for installation errors. Give the user adequate instructions concerning the use and cleaning of the unit according to the Operation Manual.

WARNING

- Installation should be left to the dealer or another professional. Improper installation may cause water leakage, electrical shock, or fire
- Install the air conditioner according to the instructions given in this manual. Incomplete installation may cause water leakage, electrical shock, or fire.
- Be sure to use the supplied or specified installation parts. Use of other parts may cause the unit to come to lose, water leakage, electrical shock, or fire.
- Install the air conditioner on a solid base that can support the unit's weight. An inadequate base or incomplete installation may cause injury in the event the unit falls off the base
- Electrical work should be carried out in accordance with the installation manual and the national electrical wiring rules or code of practice. Insufficient capacity or incomplete electrical work may cause electrical shock or fire.
- Be sure to use a dedicated power circuit. Never use a power supply shared by another appliance.
- · For wiring, use a cable long enough to cover the entire distance with no connection. Do not use an extension cord. Do not put other loads on the power supply, use a dedicated power circuit. (Failure to do so may cause abnormal heat, electric shock or fire.)
- Use the specified types of wires for electrical connections between the indoor and outdoor units. Firmly clamp the interconnecting wires so their terminals receive no external stresses. Incomplete connections or clamping may cause terminal overheating or fire.
- After connecting interconnecting and supply wiring be sure to shape the cables so that they do not put undue force on the electrical covers or panels. Install covers over the wires. Incomplete cover installation may cause terminal overheating, electrical shock, or fire.
- If any refrigerant has leaked out during the installation work, ventilate the room. (The refrigerant produces a toxic gas if exposed to flames.)

After all installation is complete, check to make sure that no refrigerant is leaking out. (The refrigerant produces a toxic gas if exposed to flames.)

- When installing or relocating the system, be sure to keep the refrigerant circuit free from substances other than the specified refrigerant (R410A), such as air. (Any presence of air or other foreign substance in the refrigerant circuit causes an abnormal pressure rise or rupture, resulting in injury.)
- During pump-down, stop the compressor before removing the refrigerant piping. If the compressor is still running and the shut-off valve is open during pump-down, air will be sucked in when the refrigerant piping is removed, causing abnormal pressure in the freezer cycle which will lead to breakage and even injury.
- During installation, attach the refrigerant piping securely before running the compressor. If the compressor is not attached and the shut-off valve is open during pump-down, air will be sucked in when the compressor is run, causing abnormal pressure in the freezer cycle which will lead to breakage and even injury.
- Be sure to establish an earth. Do not earth the unit to a utility pipe, arrester, or telephone earth. Incomplete earth may cause electrical shock, or fire. A high surge current from lightning or other sources may cause damage to the air conditioner



Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks, or fire.

! CAUTION

 Do not install the air conditioner in a place where there is danger of exposure to inflammable gas leakage. If the gas leaks and builds up around the unit, it may catch fire.



- Establish drain piping according to the instructions of this manual. Inadequate piping may cause flooding.
- Note for installing the outdoor unit. (For heat pump model only.) In cold area where the outside air temperature keep below or around freezing-point for a few days, the outdoor unit's drain may freeze. If so, it is recommended to install an electric heater in order to protect drain from freezing.
- Tighten the flare nut according to the specified method such as with a torque wrench. If the flare nut is tightened too hard, the flare nut may crack after a long time and cause refrigerant leakage

Accessories

Indoor unit

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(Λ)	_	/Н
$\langle \nabla \rangle$		(1)

Mounting plate	1	Remote controller holder	1	G Operation manual	1
B Titanium Apatite Photocatalytic Air-Purifying Filter	2	(E) AAA dry-cell batteries	2	(H) Installation manual	1
© Wireless remote controller	1	(F) Indoor unit fixing screws (M4 × 12L)	1		

Choosing a 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 intake and exhaust 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 (heat) 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 control range,
 - 8) the unit is at least 1 metre away from any television or radio set (unit may cause interference with the picture or sound).
 - 9) Install at the recommended height (1.8m).

2. Wireless remote controller

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

Installation Tips

How to remove and attach the front panel

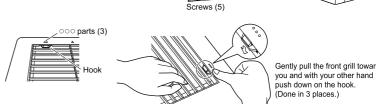
- · Removing the panel
 - 1) Place one finger on the panel tab on either side of the front panel and open it until it is horizontal.
 - 2) Sliding the front panel to the left will cause the revolving axis on the right to come off. The left revolving axis comes off by sliding it to the right.
- · Attaching the panel
 - 1) Place the revolving axis on either side of the front panel in the holes and close the front panel slowly. (Press both sides of the front panel.)

How to remove and attach the outlet vent panel

- · Removing the outlet vent panel
 - 1) Slightly pull the outlet vent panel towards you.
 - 2) Pull it up and remove the fixed axis on either side.
- Attaching the outlet vent panel
 - 1) Insert the fixed axles located on either side of the outlet vent panel into the axle bearings in a hooking motion from above, and slowly close the panel.

How to remove and attach the front grill

- · Removing the front grill
 - 1) Remove the front panel and the outlet vent panel.
 - 2) Remove the 5 screws in the front grill.



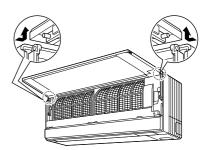
Outlet

- 3) Disengage the 3 hooks in the front grill. (Look for the ooo .)
- · Attaching the front grill
 - 1) Attach the front grill horizontally and attach the 3 hooks firmly into place.
 - 2) Insert the 5 screws.
 - 3) Attach the outlet vent panel and the front panel.



⚠ CAUTION

When removing or attaching the front grill, do not touch any electric parts. Any static electricity created through contact may cause malfunctions.



Outlet vent panel

Fixed axis

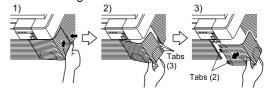
Axis bearing

parts (3)

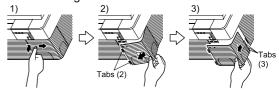
4. How to open the indoor unit service lid

- · Opening the lid
 - 1) Push and slide the service lid in the direction of the arrow.
 - 2) Disengage the tabs.
 - 3) Slide the other tab in the direction of the arrow.

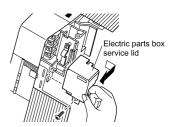
· When removing from the side of the indoor unit



• When removing from the bottom of the indoor unit



- 4) Remove the screw from the bottom of the electric parts box and remove the electric parts box service lid.
- · Attaching the lid
 - 1) Attach the electric parts box service lid.
 - 2) Set the tab of the service lid and install the lid.



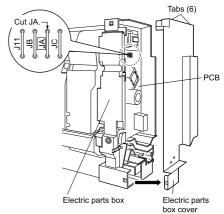
Slide the service lid to the right to remove it.

5. How to set the different addresses

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

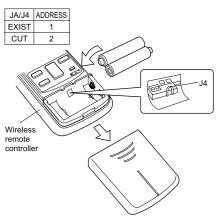
6. PCB in the indoor unit

- 1) Remove the front panel.
- 2) Remove the front grill. (5 screws)
- 3) Remove the electric parts box cover. (6 tabs)
- 4) Cut the address jumper (JA) on the indoor unit circuit board.

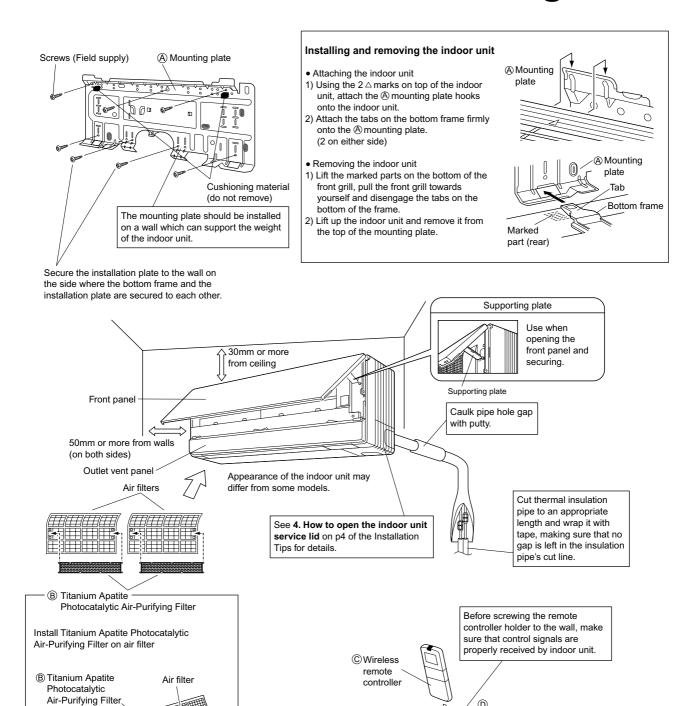


7. Wireless remote controller

1) Cut the jumper J4.



Indoor Unit Installation Drawings



Intelligent-Eye Sensor

CAUTION.

- 1) Do not hit or violently push the Intelligent-eye sensor. This can lead to damage and malfunction.
- 2) Do not place large objects near the sensor. Also keep heating units or humidifiers outside the sensor's detection area.

Screws

(Field supply)

Remote controller

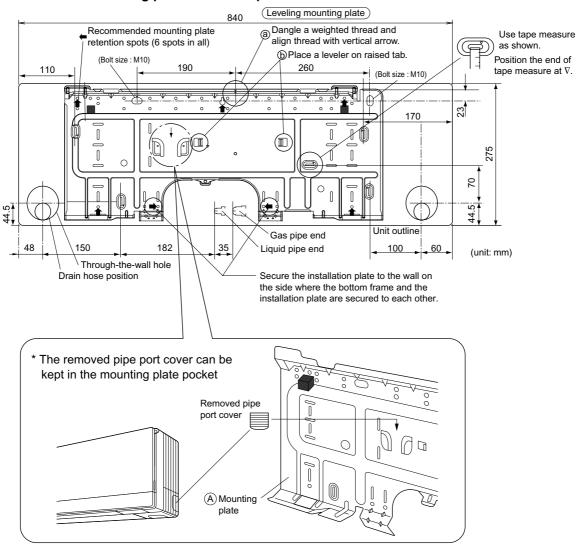
holder

Indoor Unit Installation

1. Installing the mounting plate

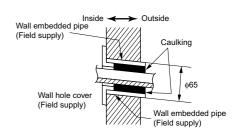
- The mounting plate should be installed on a wall which can support the weight of the indoor unit.
 - 1) Temporarily secure the mounting plate to the wall, make sure that the panel is completely level, and mark the boring points on the wall.
 - 2) Secure the mounting plate to the wall with screws.

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.



Indoor Unit Installation

Installing interunit wiring

- 1) Remove the service lid from the front grill.
- 2) Take off the electric parts box service lid.
- 3) After attaching the mounting plate, connect the interunit wiring as shown in the figure at right.

Laying piping, hoses, and wiring

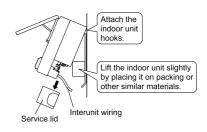
- · Lay the piping and drain hose according to the orientation of the piping coming out of the unit, as shown below.
- · Make sure the drain hose is sloped downward.
- Wrap the piping and the drain hose using insulating tape.
- · Bind and then shape the pipes, hoses, and wires so that they can fit through the piping through-hole.
- When cutting out the piping through-hole, cut out Part A using nippers along the cut-out groove as shown in the figure at right. Stopping the nippers part-way through Part A may cause it to break.

4-1. Right-Side, Right-Back, or Right-Bottom Piping

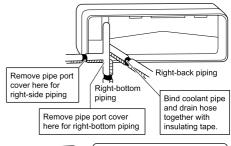
- 1) Attach the drain hose to the underside of the refrigerant pipes with adhesive vinvl tape.
- 2) Wrap the refrigerant pipes and drain hose together with insulation tape.
- 3) Put all the pipes through the through-hole in the wall and attach the indoor unit to the mounting plate. (See p5 Installing and removing the indoor unit)
- 4) Connect the pipes.
- 5) Store any excess power cord behind the indoor unit.
- 6) Making sure not to pinch the interunit wiring and the power cord, push on the bottom of the indoor unit with both hands and attach the tabs. If the indoor unit won't attach to the mounting plate, fix the bottom panel to the mounting plate with screws. (In one place on the left side or the right side.)

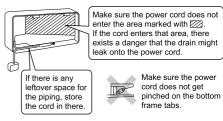
4-2. Left-Side, Left-Back, or Left-Bottom Piping

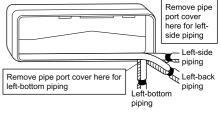
- 1) Attach the drain hose to the underside of the refrigerant pipes with adhesive vinyl tape.
- 2) Be sure to connect the drain hose to the drain port in place of a drain
 - 1. Pull out the drain plug.
 - 2. Pull out the drain hose and reattach it on the left side.
 - 3. Reattach the drain plug on the right side.
- 3) Pull in the refrigerant piping and lay it so that it matches the liquid and gas piping marked on the mounting plate.
- 4) Attach the indoor unit to the mounting plate.
- 5) Connect the pipes. If it is difficult to do, remove the front grill first.

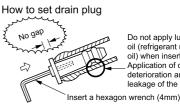




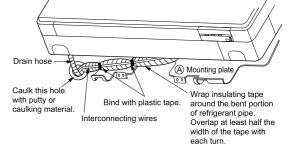








Do not apply lubricating oil (refrigerant machine oil) when inserting Application of causes deterioration and drain leakage of the plug

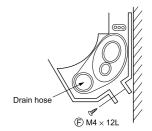


6) Wrap the insulation on the piping with insulating tape. If you are not replacing the drain hose, store it in the location shown below.

NOTE:

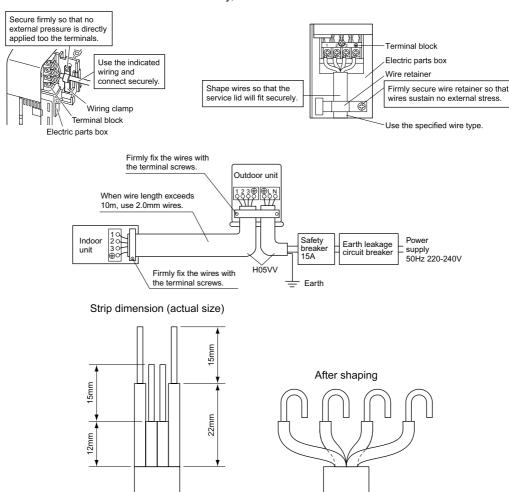
- 1. When fixing the indoor unit screws, use an

 Indoor unit fixing screw (M4 × 12L). (In one place on the left side or the right side.)
- 7) Store any excess power cord behind the indoor unit. (See 4-1. 6))
- 8) Making sure not to pinch the interunit wiring and the power cord, push on the bottom of the indoor unit with both hands and attach the tabs. If the indoor unit won't attach to the mounting plate, fix the bottom panel to the mounting plate with screws. (In one place on the left side or the right side.)



5. 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.



∱ WARNING

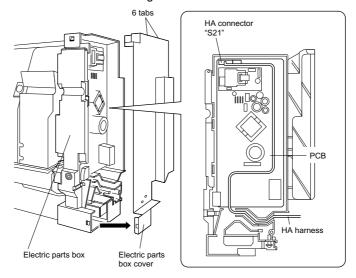
- 1) Do not use tapped wires, stand wires, extensioncords, or starbust connections, as they may cause overtheating, electrical shock, or fire
- 2) Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so may cause electric shock or fire.

■English 8

Indoor Unit Installation

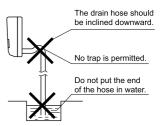
6. When connecting to an HA system

- 1) Remove the front grille. (5 screws)
- 2) Remove the metal plate electric parts box cover. (6 tabs)
- 3) Insert the connection cord to the HA connector "S21".
- 4) Lay the connecting cord as shown in the figure below.
- 5) Restore the electric parts box cover and the front grill.

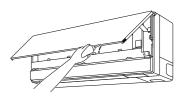


7. Drain piping

1) Connect the drain hose, as described right.

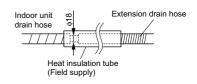


Remove the air filters and pour some water into the drain pan to check the water flows smoothly.



When drain hose requires extension, obtain an extension hose commercially available.

Be sure to thermally insulate the indoor section of the extension hose.



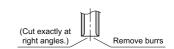
4) When connecting a rigid polyvinyl chloride pipe (nominal diameter 13mm) directly to the drain hose attached to the indoor unit as with embedded piping work, use any commercially available drain socket (nominal diameter 13mm) as a joint.



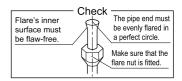
Refrigerant Piping Work

1. 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.



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)
ZZZ ZZZDie	Α	0-0.5mm	1.0-1.5mm	1.5-2.0mm



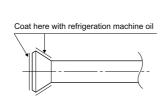
↑ WARNING

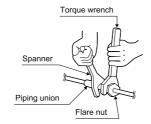
- 1) Do not use mineral oil on flared part.
- 2) Prevent mineral oil from getting into the system as this would reduce the lifetime of the units.
- 3) Never use piping which has been used for previous installations. Only use parts which are delivered with the unit.
- 4) Do never install a drier to this 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.

2. Refrigerant piping

- 1) 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.
 - Use torque wrenches when tightening the flare nuts to prevent damage to the flare nuts and escaping gas.

Flare nut tightening torque			
Gas side		Liquid side	
3/8 inch	1/2 inch	1/4 inch	
32.7-39.9N • m (333-407kgf • cm)	49.5-60.3N • m (505-615kgf • cm)	14.2-17.2N • m (144-175kgf • cm)	





2) To prevent gas leakage, apply refrigeration machine oil on both inner and outer surfaces of the flare. (Use refrigeration oil for R410A.)

2-1. Caution on Piping Handling

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

(Bending radius should be 30 to 40mm or larger.)



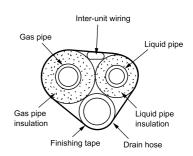
10

■English

Refrigerant Piping Work

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.



2) Be sure to insulate both the gas and liquid piping and to provide insulation dimensions as below.

Gas side		Liquid side	
25/35 class	50 class	25/35/50 class	
O.D. 9.5mm	O.D. 12.7mm	O.D. 6.4mm	
Thickness 0.8mm		Thickness 0.8mm	
Gas pipe thermal insulation		Liquid pipe thermal insulation	
25/35 class	50 class	25/35/50 class	
I.D. 12-15mm	I.D. 14-16mm	I.D. 8-10mm	
Thickness 10mm Min.			

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

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 Make sure the front panel opens and closes smoothly using remote controller. (Do not do this using the indoor unit operation/stop button.)
- 1-3 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 control 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.
- 1-4 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) Simultaneously press centor of TEMP button and MODE button.
- 3) Press MODE button twice.
 - (" 7" will appear on the display to indicate that Trial Operation mode is selected.)
- 4) Trial run mode 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 interconnecting wire connections.	Inoperative or burn damage	
Indoor or outdoor unit's air intake or exhaust has clear path of air. Shut-off valves are opened.	Incomplete cooling/heating function	
Indoor unit properly receives remote control commands.	Inoperative	

■English 12

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