



DAIKIN ROOM AIR CONDITIONER

INSTALLATION MANUAL

R410A Split Series



MODELS

FTX25KNV1B FTX35KNV1B

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

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

CE - DECLARAÇÃO-DE-CONFORMIDADE CE - 3AABAIEHIVE-O-COOTBETCTBUN CE - OVERENSSTEMMEL SESERKLÆRING CE - FÖRSÄKRAN-OM-ÖVERENSTÄMMELSE

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

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

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

CE - ATTIKTIES-DEKLARACIJA CE - ATBILSTĪBAS-DEKLARĀCIJA CE - VYHLÁSENIE-ZHODY CE - UYGUNLUK-BEYANI

Daikin Industries Czech Republic s.r.o.

- 01 (GB) declares under its sole responsibility that the air conditioning models to which this declaration relates:
- 02 (D) erklärt auf seine alleinige Verantwortung daß die Modelle der Klimageräte für die diese Erklärung bestimmt ist: 03 (F) déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclaration:
- 04 (NL) verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft.
 - 05 (E) declara baja 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 συσκευών στα οποία αναφέρεται η παρούσα δήλωση:
 - 08 (P) declara sob sua exclusiva responsabilidade que os modelos de ar condicionado a que esta declaração se refere:
- 49 (се) заявляет испочительно под свою ответственность, что модели клидицинеров водруга, ктогорым относится настоящее заявление: 10 се) enkaerer under eneansvar, at kimaanlægmodellerne, som denne deklaration vedrører: 11 (S) deklarerar i egenskap av huvudansvarig, att luftkonditioneringsmodellerna som berörs av denna deklaration innebär att.
 - 12 (N) erklærer et fullstendig ansvar for at de luftkondisjoneringsmodeller som berøres av denne deklarasjon, innebærer at:
 - 13 (Fix) ilmoittaa yksinomaan omalla vastuullaan, että tämän ilmoituksen tarkoittamat ilmastointilaitteiden mallit:
 - 14 (② prohlažuje ve svie piné odpovědnosti, že modely klimatizaca, k nimž se toto prohlášení vzlahuje: 15 (④) izjavluje pod isključivo vkastlom odgovomnoštu, da su modeli klima uredaja na koje se ova izjava odnosi: 16 (④) teljes felelossége tudatában klipienti, hogy a klimaberendezés modellek, melyekre e nyřatkozat vonatkozik:

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

18 (RO) declară pe proprie răspundere că aparatele de aer condiționat la care se referă această declarație: 19 (st.) z vso odgovornostjo izjavlja, da so modeli klimatskih naprav, na katere se izjava nanaša:

20 (637) kinnitab oma täielikul vastutusel, et käesoleva deklaratsiooni alla kuuluvad kliimaseadmete mudelid:

21 (вс) декларира на своя отговорност, че моделите климатична инсталация, за които се отнася тази декларация; 22 (II) visiška savo atsakomybe skelbia, kad oro kondicionavimo prietaisų modeliai, kuriems yra taikoma ši deklaracija:

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

24 (®N. vyhlasuje na viastnú zodpovednosť, že tielo klimatizaché modely, na ktoré sa vztahuje toto vyhlásenie:
25 (®) tamarnen kendí sorumlutúgunda olmak tizere bu bildírinin ligli oldugu klima modellerinin aşagirdakí gibí oldugunu beyan edler:

FTX25KNV1B, FTX35KNV1B,

01 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/entspreichen, unter der Voraussetzung, daß sie gemäß unseren Anweisungen eingesetzt werden:

03 sont conformes à lalaux 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 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 nestras 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 χρησιμοποιούνται σύμφωνα 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 09 соответствуют следующим стандартам или другим нормативным документам, при условии их использования согласно нашим acordo com as nossas instruções:

10 overholder følgende 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 följer 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:

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 normativním dokumentům:

17 spelniają wymogi następujących nom i innych dokumentów normalizacyjnych, pod warunkiem że używane są zgodnie z naszymi 16 megfelelnek az alábbi szabvány(ok)nak vagy egyéb irányadó dokumentum(ok)nak, ha azokat előírás szerint használják: instrukcjami

18 sunt în conformitate cu următorul (următoarele) standard(e) sau alt(e) document(e) normativ(e), cu condiția ca acestea să fie utilizate în

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

20 on vastavuses järgmis(!)e standardi(te)ga või teiste normatiivsete dokumentidega, kui neid kasutatakse vastavalt meie juhenditele: 21 съответстват на следните стандарти или други нормативни документи, при условие, че се използват съгласно 1 инструкции

24 sú v zhode s nasledovnou(ými) nomou(ami) alebo iným(i) nomatívnym(i) dokumentom(ami), za predpokladu, že sa používajú v súlade 22 atitinka 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:

s našim návodom:

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

07 Οδηγιών, όπως έχουν τροποποιηθεί. 08 Directivas, conforme alteração em. 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. Machinery 2006/42/EC ** Electromagnetic Compatibility 2014/30/EU * Low Voltage 2014/35/EU

> 23 ievērojot prasības, kas noteiktas: 25 bunun koşullarına uygun olarak:

24 održiavajúc ustanovenia:

17 zgodnie z postanowieniami Dyrektyw:

18 în urma prevederilor:

09 в соответствии с положениями:

22 laikantis nuostatų, pateikiamų:

21 следвайки клаузите на:

12 gitt i henhold til bestemmelsene i: 14 za dodržení ustanovení předpisu:

03 conformément aux stipulations des: 04 overeenkomstig de bepalingen van:

02 gemäß den Vorschriften der:

01 following the provisions of:

05 siguiendo las disposiciones de: 07 με τήρηση των διατάξεων των: 08 de acordo com o previsto em:

06 secondo le prescrizioni per:

11 enligt villkoren i:

13 noudattaen määräyksiä:

15 prema odredbama:

16 követi a(z):

19 ob upoštevanju določb:

10 under iagttagelse af bestemmelserne i:

20 vastavalt nõuetele:

 Direktiivejä, sellaisina kuin ne ovat muutettuina. 16 irányelv(ek) és módosításaik rendelkezéseit. 18 Directivelor, cu amendamentele respective. 12 Direktiver, med foretatte endringer. 10 Direktiver, med senere ændringer. 11 Direktiv, med företagna ändringar. 15 Smjemice, kako je izmijenjeno. 17 z późniejszymi poprawkami. 14 v platném znění. 09 Директив со всеми поправками. 21 Забележка* 16 Negjegyzés * a(z) <A> alapján, a(z) igazolta a megfelelést, a(z) <C> tanúsítvány szerint.

25 Değiştirilmiş halleriyle Yönetmelikler.

21 Директиви, с техните изменения.

19 Direktive z vsemi spremembami. 20 Direktiivid koos muudatustega. 22 Direktyvose su papildymais. Direktīvās un to papildinājumos.

24 Smernice, v platnom znení.

DAIKIN.TCF.015R29/09-2016 74736-KRQ/EMC97-4957 DEKRA (NB0344) ô \$ ô kaip nustatyta < A> ir kaip teigiamai nuspręsta < B> ako bolo uvedené v <A> a pozitívne zistené <A>'da belirtildiği gibi ve <C> Sertifikasına göre kā norādīts <A> un atbilstoši pozitīvajam vērtējumam saskaņā ar sertifikātu <C> от <В> съпасно Сертификата <С> v súlade s osvedčením <C>. pagal Sertifikatą <C>.

> 24 Poznámka * 23 Piezīmes *

> kot je določeno v < A> in odobreno s strani < B> aşa cum este stabilit în <A> şi apreciat pozitiv de în conformitate cu Certificatul <C>.

> > 19 Opomba*

20 Märkus

v skladu s certifikatom <C>.

25 Not *

nagu on näidatud dokumendis <A> ja heaks kiidetud järgi vastavalt sertifikaadile <C>.

както е изложено в <А> и оценено положително

22 Pastaba*

zgodnie z dokumentacją <A>, pozytywną opinią

17 Uwaga *

18 Notă*

 | Świadectwem <C>.

otka on esitetty asiakirjassa <A> ja jotka on jak bylo uvedeno v <A> a pozitívně zjištěno v souladu s osvědčením <C>. som det fremkommer i <A> og gjennom positiv kako je izloženo u <A> i pozitivno ocijenjeno od strane prema Certifikatu <C>. bedømmelse av ifølge Sertifikat <C>. nyvāksynyt Sertifikaatin <C> mukaisesti. enligt <A> och godkänts av enligt Certifikatet <C>. 11 Information * 14 Poznámka * 15 Napomena* 13 Huom* 12 Merk* tal como estabelecido em <A> e com o parecer positivo de de acordo com o Certificado <C>. όπως καθορίζεται στο <Α> και κρίνεται θετικά από с положительным решением согласно som anført i <A> og posifivt vurderet af i henhold til Certifikat <C>. delineato nel <A> e giudicato positivamente το <Β> σύμφωνα με το Πιστοποιητικό <C>. как указано в <А> и в соответствии da secondo il Certificato <C>.

Свидетельству <С>

Bemærk *

-

positivamente por **** de acuerdo con el **Certificado <C>**.

como se establece en <A> y es valorado overeenkomstig Certificaat <C>. Sonfomement au Certificat <C>

> Nota * 8

Примечание

ඉ

zoals vermeld in <A> en positief beoordeeld door

Bemerk *

07 Σημείωση*

wie in <A> aufgeführt und von positiv beurteilt

pemails Zertifikat <>>.

08 Nota*

tel que défini dans <A> et évalué positivement par

Remarque * 02 Hinweis*

Nota *

8

as set out in <A> and judged positively by

Note *

according to the Certificate <C>.

13 ** DICz*** on valtuutettu laatimaan Teknisen asiakirjan.

14 ** Společnost DICz*** má oprávnění ke kompilaci souboru technické konstrukce 15 ** DICZ*** je ovlašten za izradu Datoteke o tehničkoj konstrukciji.

09 ** Компания DICZ*** уполномочена составить Комплект технической документации.

11 ** DICz*** är bemyndigade att sammanställa den tekniska konstruktionsfilen.

10 ** DICz*** er autoriseret til at udarbejde de tekniske konstruktionsdata. 12 ** DICz*** har tillatelse til å kompilere den Tekniske konstruksjonsfilen.

07 ** Η DICZ*** είναι εξουσιοδοτημένη να συντάξει τον Τεχνικό φάκελο κατασκευής.

08 ** A DICz*** está autorizada a compilar a documentação técnica de fabrico.

02** DICz** hat die Berechtigung die Technische Konstruktionsakte zusammenzustellen.

01 ** DICz*** is authorised to compile the Technical Construction File.

03 ** DICZ*** est autorisé à compiler le Dossier de Construction Technique.

04** DICz*** is bevoegd om het Technisch Constructiedossier samen te stellen.
05** DICz*** está autorizado a compilar el Archivo de Construcción Técnica.

06 ** DICz*** è autorizzata a redigere il File Tecnico di Costruzione.

***DICz = Daikin Industries Czech Republic s.r.o.

16 ** A DICz*** jogosult a műszaki konstrukciós dokumentáció összeállítására.

17 ** DICz*** ma upoważnienie do zbierania i opracowywania dokumentacji konstrukcyjnej. 18 ** DICz*** este autorizat să compileze Dosarul tehnic de construcție.

19 ** DICz*** je pooblaščen za sestavo datoteke s tehnično mapo. 20 ** DICz*** on volitatud koostama tehnilist dokumentatsiooni.

 tarafından olumlu olarak değerlendirildiği gibi.

22 ** DICz*** yra įgaliota sudaryti šį techninės konstrukcijos failą. 23 ** DICz*** ir autorizēts sastādīt tehnisko dokumentāciju.

21 ** DICz*** е оторизирана да състави Акта за техническа конструкция.

24* Społočnosť DICz** je oprávnená vytvoriť súbor technickej konštrukcie. 25** DICz** Teknik Yapi Dosyasni dertemeye yetkildir.

DAIKIN INDUSTRIES CZECH REPUBLIC S.r.o.

U Nové Hospody 1/1155, 301 00 Plzeň Skvrňany,

Pilsen, 3rd of October 2016 Managing Director **Tetsuya Baba**

Czech Republic

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

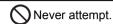
MARNING.....Failure to follow these instructions properly may result in personal injury or loss of life.

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:







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

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 the supply cord is damaged, it must be replaced by the manufacturer, a service agent or similarly qualified persons in order to avoid a hazard.
- 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.



Safety Precautions

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.
- This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial and household use by lay persons.
- Sound pressure level is less than 70 dB(A).
- Installation shall be done by an installer, the choice of materials and installation shall comply with the applicable legislation. In Europe the EN378 is the applicable standard that shall be used.

Accessories

Indoor unit (A)-(H)



Mounting plate	1	Remote controller holder	1	Operation manual	1
(B) Titanium apatite deodorizing filter	2	© Dry battery AAA. LR03 (alkaline)	2	(H) Installation manual	1
© Wireless remote controller	1	F Indoor unit fixing screw (M4 × 12L)	2		

Choosing an Installation Site

Before choosing the installation site, obtain user approval.

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) no laundry equipment is located.

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).

Preparation before Installation

1. Removing and installing the 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 front 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 front panel shaft on the left side. To disengage the front panel shaft on the right side, slide the panel to the left while pulling it toward you.

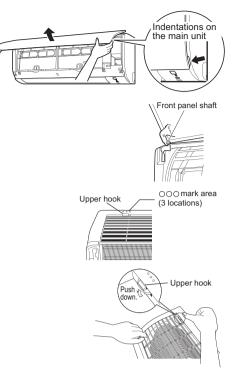
Installation method

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

2. Removing and installing the front grille

Removal method

- 1) Remove the front panel to remove the air filter.
- 2) Remove the 3 screws 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.



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 centre 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 3 screws of the front grille.
- 3) Install the air filter and then mount the front panel.

3. How to set the different addresses

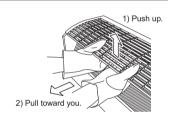
When 2 indoor units are installed in one room, the 2 wireless remote controllers can be set for different addresses. Change the address setting of one of the two units.

When cutting the jumper be careful not to damage any of the surrounding parts.

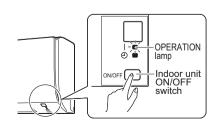
- Remove the battery cover on the remote controller and cut the address jumper.
- 2) Press \uparrow_{TFMP} , $\uparrow_{\text{V}}^{\text{TEMP}}$ and \uparrow_{OFF} at the same time.
- 3) Press , select **?** , press •FAN .

(The indoor unit OPERATION lamp will blink for about 1 minute.)

- Press the indoor unit ON/OFF switch while the OPERATION lamp is blinking.
- If setting could not be carried out completely while the OPERATION lamp was blinking, carry out the setting process once again from the beginning.
- After setting is complete, pressing FAN for about 5 seconds will cause the remote controller to return to the previous display.



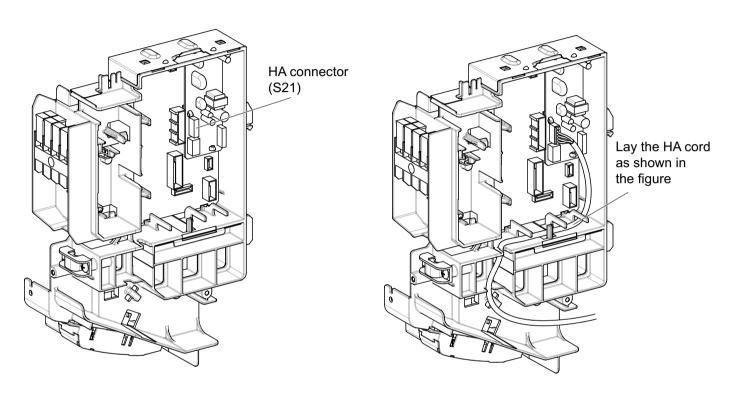


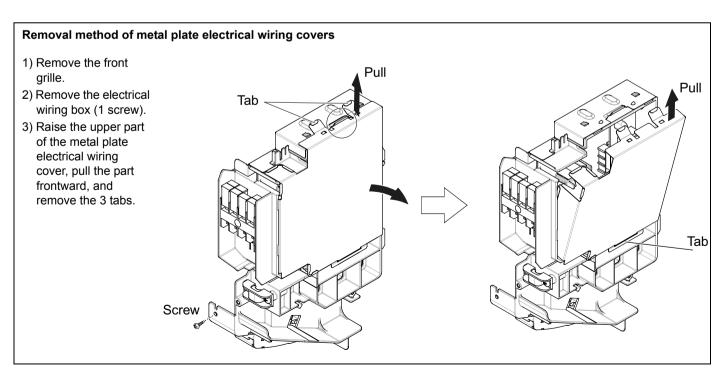


Preparation before Installation

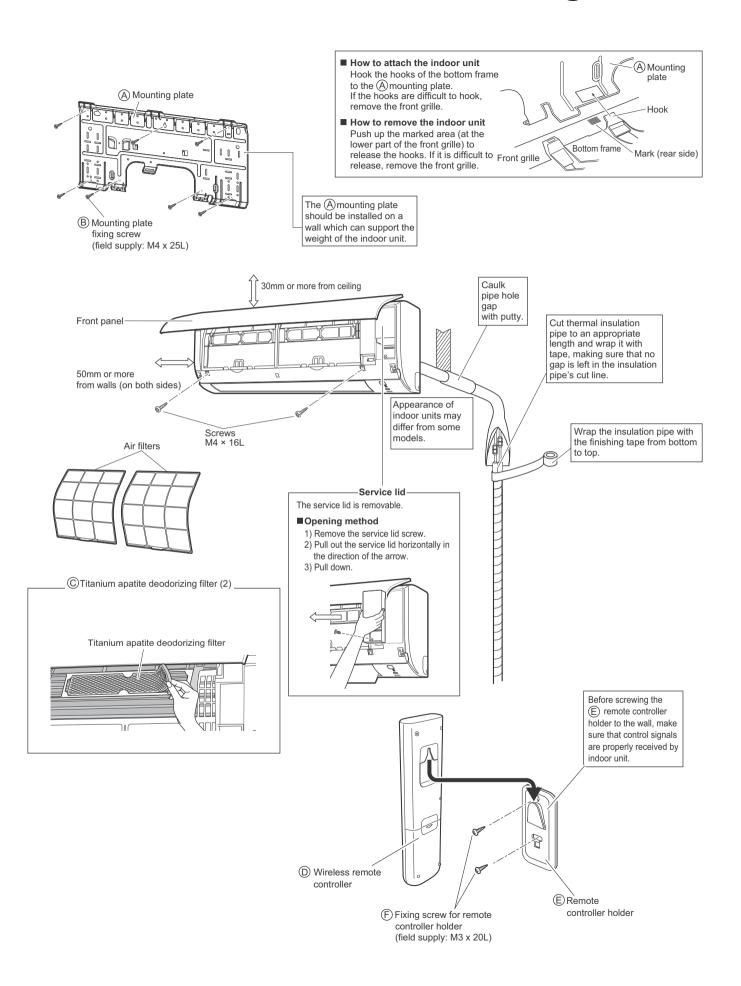
1. When connecting to an HA system (Wired remote controller, Central remote controller, Wireless adaptor, etc.)

- 1) Remove the metal plate electrical wiring cover.
 (Refer to the **Removal/attachment methods of metal plate electrical wiring covers.**)
- 2)Attach the connection cord to the S21 connector and pull the harness as shown in the figure.
- 3)Replace the electrical wiring cover as it was, and pull the harness around, as shown in the figure.





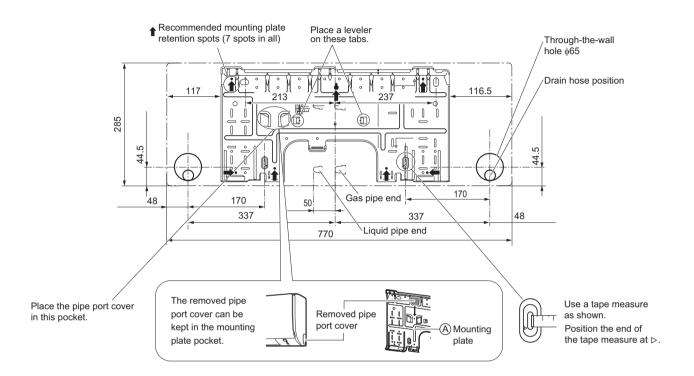
Indoor Unit Installation Drawings



1. Installing the mounting plate

- · The mounting plate should be installed on a wall which can support the weight of the indoor unit.
- 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

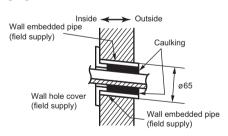


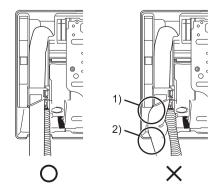
2. Boring a wall hole and installing wall embedded pipe

- 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.
- 1) 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.

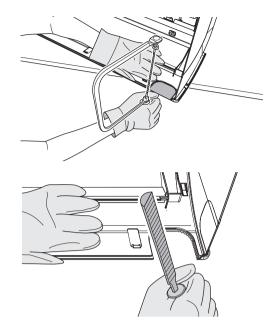
3. Installing the indoor unit

- 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.





- · Remove the pipe port cover as shown below.
- 1) Cut off the pipe port cover from inside the front grille using a copping
 - Apply the blade of the copping saw to the notch, and cut off the pipe port cover along the uneven inner surface.
- 2) After cutting off the pipe port cover, perform filing. Remove the burrs along the cut section using a half round needle file.

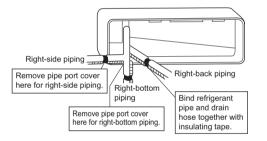


⚠ CAUTION

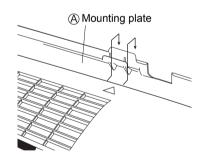
- · If the pipe port cover is cut off using nippers, the front grille will be damaged. Please do not use nippers.
- · Wear gloves during the pipe port cover removal.

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

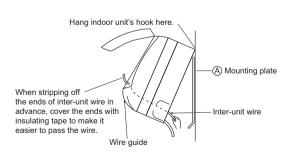
- 1) Attach the drain hose to the underside of the refrigerant pipes with adhesive vinyl tape.
- 2) Wrap the refrigerant pipes and drain hose together with insulation



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.



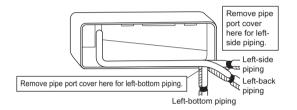
- 4) Open the front panel, then open the service lid. (Refer to preparation before installation.)
- 5) Pass the inter-unit wire from the outdoor unit through the feed-through wall hole and then through the back of the indoor unit. Pull them through the front side. Bend the ends of tie wires upward for 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.



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

How to replace the drain plug and drain hose · Replacing onto the left side Drain hose attachment position 1) Remove the insulation fixing screw on the The drain hose is on the back of the unit. right and remove the drain hose. 2) Remove the drain plug on the left side and attach it to the right side. Left side Right side 3) Insert the drain hose and tighten with Front side of unit included insulation fixing screw. Attachment on the left side Attachment on the right side (factory default) * (Forgetting to tighten this may cause water leakages.) Insulation Insulation fixing screw fixing screw Drain hose Drain hose

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

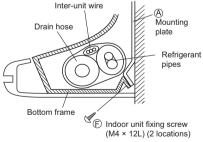


2) Be sure to connect the drain hose to the drain port in place of a drain plug.



Do not apply lubricating oil (refrigerant oil) to the drain plug when inserting it. The application of lubrication oil to the drain plug will deteriorate the plug and cause drain leakage from the plug.

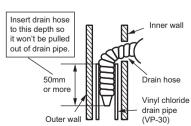
- 3) Shape the refrigerant pipes along the pipe path marking on the mounting plate.
- 4) Pass the drain hose and refrigerant pipes through the wall hole, then set the indoor unit on mounting plate hooks, using the \triangle markings at the top of the indoor unit as a guide.
- 5) Pull in the inter-unit wire.
- 6) Connect the inter-unit pipes.
- Drain (A) Mounting plate hose Caulk this hole Wrap insulating tape around the with putty or bent portion of refrigerant pipes. Bind with adhesive caulking material. Overlap at least half the width of vinyl tape. the tape with each turn.
- 7) Wrap the refrigerant pipes and drain hose together with insulation tape as shown in the figure on the right (in case of setting the drain hose through the back of the indoor unit).
- 8) While exercising care so that the inter-unit wire does 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.

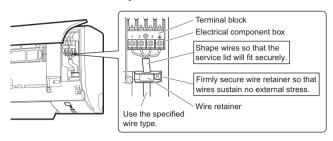


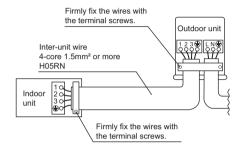
Wiring diagram

	Unified Wiring Diagram Legend					
For applied parts and numbering refer to the wiring diagram sticker supplied on the unit. Part numbering is realized by Arabic numbers in ascending order for each part and is represented in the overview below by symbol *** in the part code.						
	: CIRCUIT BREAKER		(1)	: PROTECTIVE EARTH		
-•-	: CONNECTION			: PROTECTIVE EARTH (SCREW)		
· · · · · · · · · · · · · · · · · · ·	: CONNECTOR		A	: RECTIFIER		
Ţ	: EARTH		—)—	: RELAY CONNECTOR		
	: FIELD WIRING		00	: SHORT CIRCUIT CONNECTOR		
	: FUSE		_	: TERMINAL		
INDOOR	: INDOOR UNIT			: TERMINAL STRIP		
OUTDOOR	: OUTDOOR UNIT		O •	: WIRE CLAMP		
BLK : BLACK	GRN : GREEN	PNK	: PINK	WHT : WHITE		
BLU : BLUE	GRY : GREY	PRP, PPL	: PURPLE	YLW : YELLOW		
BRN : BROWN	ORG : ORANGE	RED	: RED			
A*P	: PRINTED CIRCUIT BOARD		PS	: SWITCHING POWER SUPPLY		
BS*	: PUSH BUTTON ON / OFF, OPERATION S	SWITCH	PTC*	: THERMISTOR PTC		
BZ, H*O	: BUZZER		Q*	: INSULATED GATE BIPOLAR TRANSISTOR (IGBT)		
C*	: CAPACITOR		Q*DI	: EARTH LEAK CIRCUIT BREAKER		
AC*, CN*, E*, HA*, HE, HL*, HN*, HR*, MR*_A, MR*_B, S*, U, V, W, X*A	: CONNECTION, CONNECTOR		Q*L	: OVERLOAD PROTECTOR		
D*, V*D	: DIODE		Q*M	: THERMO SWITCH		
DB*	: DIODE BRIDGE		R*	: RESISTOR		
DS*	: DIP SWITCH		R*T	: THERMISTOR		
E*H	: HEATER		RC	: RECEIVER		
F*U, FU* (FOR CHARACTERISTICS REFER TO PCB INSIDE YOUR UNIT)	: FUSE		S*C	: LIMIT SWITCH		
FG*	: CONNECTOR (FRAME GROUND)		S*L	: FLOAT SWITCH		
H*	: HARNESS		S*NPH	: PRESSURE SENSOR (HIGH)		
H*P, LED*, V*L	: PILOT LAMP, LIGHT EMITTING DIODE		S*NPL	: PRESSURE SENSOR (LOW)		
HAP	: LIGHT EMITTING DIODE (SERVICE MOI	NITOR GREEN)	S*PH, HPS*	: PRESSURE SWITCH (HIGH)		
HIGH VOLTAGE	: HIGH VOLTAGE		S*PL	: PRESSURE SWITCH (LOW)		
IES	: INTELLIGENT EYE SENSOR		S*T	: THERMOSTAT		
IPM*	: INTELLIGENT POWER MODULE		S*W, SW*	: OPERATION SWITCH		
K*R, KCR, KFR, KHuR	: MAGNETIC RELAY		SA*	: SURGE ARRESTOR		
L	: LIVE		SR*, WLU	: SIGNAL RECEIVER		
L*	: COIL		SS*	: SELECTOR SWITCH		
L*R	: REACTOR		SHEET METAL	: TERMINAL STRIP FIXED PLATE		
M*	: STEPPER MOTOR		T*R	: TRANSFORMER		
M*C	: COMPRESSOR MOTOR		TC, TRC	: TRANSMITTER		
M*F	: FAN MOTOR		V*, R*V	: VARISTOR		
M*P	: DRAIN PUMP MOTOR		V*R	: DIODE BRIDGE		
M*S	: SWING MOTOR		WRC	: WIRELESS REMOTE CONTROLLER		
MR*, MRCW*, MRM*, MRN*	: MAGNETIC RELAY		X*	: TERMINAL		
N	: NEUTRAL		X*M	: TERMINAL STRIP (BLOCK)		
n=*	NUMBER OF PASSES THROUGH FERF	RITE CORE	Y*E	: ELECTRONIC EXPANSION VALVE COIL		
PAM	: PULSE-AMPLITUDE MODULATION		Y*R, Y*S	: REVERSING SOLENOID VALVE COIL		
PCB*	: PRINTED CIRCUIT BOARD		Z*C	: FERRITE CORE		
PM*	: POWER MODULE		ZF, Z*F	: NOISE FILTER		

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.



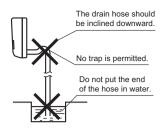


⚠ WARNING

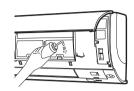
- · Do not use tapped wires, stranded wires, extension cords, or starburst connections, as they may cause overheating, electrical shock, or fire.
- · Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so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

5. Drain piping

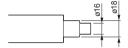
1) Connect the drain hose, as described right.



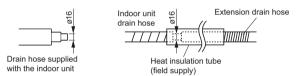
2) Remove the air filters and pour some water into the drain pan to check the water flows smoothly.



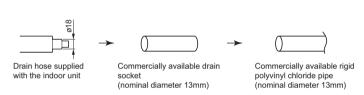
3) If drain hose extension or embedded drain piping is required, use appropriate parts that match the hose front end. [Figure of hose front end]



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.



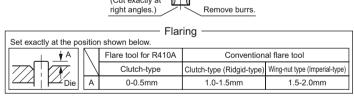
5) When connecting a rigid polyvinyl chloride pipe (nominal diameter 13mm) directly to the drain hose attached to the indoor unit as with embedded piping work, use any commercially available drain socket (nominal diameter 13mm) as a joint.

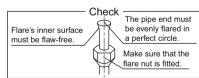


Refrigerant Piping Work

Flaring the pipe end

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





riangle 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.
- Never install a dryer 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.

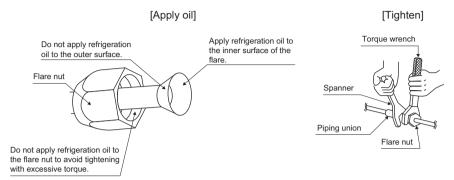
Refrigerant Piping Work

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

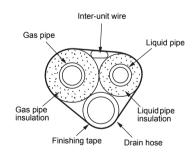
2-1. Caution on piping handling

- 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:
- 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.



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 0.8n	nm (C1220T-O)			

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

Trial Operation and Testing

1. Trial operation and testing

- Trial operation should be carried out in either COOL or HEAT operation.
- 1-1. Measure the supply voltage and make sure that it is within the specified range.
- 1-2. In COOL operation, select the lowest programmable temperature; in HEAT operation, select the highest programmable temperature.
- 1-3. Carry out the trial operation in accordance with the operation manual to ensure that all functions and parts, such as flap movement, are working properly.
 - For protection, the system disables restart operation for 3 minutes after it is turned off.
- 1-4. After trial operation is complete, set the temperature to a normal level (26°C to 28°C in COOL

operation, 20°C to 24°C in HEAT operation).

- When operating the air conditioner in COOL operation in winter, set it to the trial operation mode using the following method.
 - 1) Press \bigcap_{TEMP} , \bigcap_{TEMP} and \bigcap_{FF} at the same time.
 - 2) Press , select , , press FAN
 - 3) Press or HEAT to turn on the system.
 - Trial operation will stop automatically after about 30 minutes.
 To stop the operation, press OFF .
 - Some of the functions cannot be used in the trial operation mode.
- The air conditioner draws a small amount of power in its standby mode. If the system is not to be used for some time after installation, shut off the circuit breaker to eliminate unnecessary power consumption.
- If the circuit breaker trips to shut off the power to the air conditioner, the system will restore the original operation mode when the circuit breaker is opened again.

2. Test items

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

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