

INSTALLATION MANUAL

安装手册

URV SYSTEM Inverter Air Conditioners

MODELS

Wall-mounted type

型号

挂壁型

FXAQ20MAVE

FXAQ25MAVE

FXAQ32MAVE

FXAQ40MAVE

FXAQ50MAVE

FXAQ63MAVE

READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION.
KEEP THIS MANUAL IN A HANDY PLACE FOR FUTURE REFERENCE.

LESEN SIE DIESE ANWEISUNGEN VOR DER INSTALLATION SORGFÄLTIG DURCH. BEWAHREN SIE DIESE ANLEITUNG FÜR SPÄTERE BEZUGNAHME GRIFFBEREIT AUF.

LIRE SOIGNEUSEMENT CES INSTRUCTIONS AVANT L'INSTALLATION. CONSERVER CE MANUEL A PORTEE DE MAIN POUR REFERENCE ULTERIEURE.

LEA CUIDADOSAMENTE ESTAS INSTRUCCIONES ANTES DE INSTALAR. GUARDE ESTE MANUAL EN UN LUGAR A MANO PARA LEER EN CASO DE TENER ALGUNA DUDA.

PRIMA DELL'INSTALLAZIONE LEGGERE ATTENTAMENTE QUESTE ISTRUZIONI.
TENERE QUESTO MANUALE A PORTATA DI MANO PER RIFERIMENTI FUTURI.

ΔΙΑΒΑΣΤΕ ΠΡΟΣΕΚΤΙΚΑ ΑΥΤΈΣ ΤΙΣ ΟΔΗΓΙΕΣ ΠΡΙΝ ΑΠΌ ΤΗΝ ΕΓΚΑΤΑΣΤΑΣΗ EXETE AYTO ΤΟ ΕΓΧΕΙΡΙΔΙΟ ΕΥΚΑΙΡΟ ΓΙΑ ΝΑ ΤΟ ΣΥΜΒΟΥΛΕΥΕΣΤΕ ΣΤΟ ΜΕΛΛΟΝ.

LEES DEZE INSTRUCTIES ZORGVULDIG DOOR VOOR INSTALLATIE. BEWAAR DEZE HAN-DLEINDING WAAR U HEM KUNT TERUGVINDEN VOOR LATERE NASLAG.

LEIA COM ATENÇÃO ESTAS INSTRUÇÕES ANTES DE REALIZAR A INSTALAÇÃO. MANTENHA ESTE MANUAL AO SEU ALCANCE PARA FUTURAS CONSULTAS.

ПЕРЕД НАЧАЛОМ МОНТАЖА ВНИМАТЕЛЬНО ОЗНАКОМЬТЕСЬ С ДАННЫМИ ИНСТРУКЦИЯМИ. СОХРАНИТЕ ДАННОЕ РУКОВОДСТВО В МЕСТЕ, УДОБНОМ ДЛЯ ОБРАЩЕНИЯ В БУДУЩЕМ.

安裝前務必仔細閱讀此安裝指南, 閱後妥善保存, 以便隨時參看。

安装前务必仔细阅读此安装指南、阅后妥善保存、以便随时参看。

English

Deutsch

Français

Español

Italiano

Ελληνικά

Nederlands

Portugues

Русский

中文 (繁體)

中文 (简体) 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 - OPFYLDELSESERKLÆRING CE - FÖRSÄKRAN OM ÖVERENSTÄMMELSE CE - ERKLÆRING OM SAMSVAR CE - ILMOITUS YHDENMUKAISUUDESTA

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declares under its sole responsibility that the air conditioning models to which this declaration relates: erklärt auf seine alleinige Verantwortung daß die Modelle der Klimageräte für die diese Erklärung bestimmt ist: déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclaration:

verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft: declara baja su única responsabilidad que los modelos de aire acondicionado a los cuales hace referencia la declaración: 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: declara sob sua exclusiva responsabilidade que os modelos de ar condicionado a que esta declaração se refere: erklærer under eneansvar, at klimaanlægmodellerne, som denne deklaration vedrører:

deklarerar i egenskap av huvudansvarig, att luftkonditioneringsmodellerna som berörs av denna deklaration innebär att: erklærer et fullstendig ansvar for at de luftkondisjoneringsmodeller som berøres av denne deklarasjon innebærer at: ilmoittaa yksinomaan omalla vastuullaan, että tämän ilmoituksen tarkoittamat ilmastointilaitteiden mallit:

FXC20LVE, FXC25LVE, FXC32LVE, FXC40LVE, FXC50LVE, FXC63LVE, FXC80LVE, FXC125LVE

FXM40LVE, FXM50LVE, FXM63LVE, FXM80LVE, FXM100LVE, FXM125LVE, FXM200LVE, FXM250LVE

FXL20LVE, FXL25LVE, FXL32LVE, FXL40LVE, FXL50LVE, FXL63LVE

FXN20LVE, FXN25LVE, FXN32LVE, FXN40LVE, FXN50LVE, FXN63LVE

FXH32LVE, FXH63LVE, FXH100LVE

FXS20LVE, FXS25LVE, FXS32LVE, FXS40LVE, FXS50LVE, FXS63LVE, FXS80LVE, FXS100LVE, FXS125LVE

FXK25LVE, FXK32LVE, FXK40LVE, FXK63LVE

FXA20LVE, FXA25LVE, FXA32LVE, FXA40LVE, FXA50LVE, FXA63LVE

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

der/den folgenden Norm(en) oder einem anderen Normdokument oder -dokumenten entspricht/entsprechen, unter der Voraussetzung, daß sie gemäß unseren Anweisungen eingesetzt werden:
sont conformes à la/aux norme(s) ou autre(s) document(s) normatif(s), pour autant qu'ils soient utilisés conformément à nos instructions:

conform de volgende norm(en) of één of meer andere bindende documenten zijn, op voorwaarde dat ze worden gebruikt overeenkomstig onze instructies: 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: sono conformi al(i) seguente(i) standard(s) o altro(i) documento(i) a carattere normativo, a patto che vengano usati in conformità alle nostre istruzioni:

είναι σύμφωνα με το(α) ακόλουθο(α) πρότυπο(α) ή άλλο έγγραφο(α) κανονισμών, υπό την προϋπόθεση ότι χρησιμοποιούνται σύμφωνα με τις οδηγίες μας: 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: overholder følgende standard(er) eller andet/andre retningsgivende dokument(er), forudsat at disse anvendes i henhold til vore instrukser:

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: respektive utstyr er i overensstemmelse med følgende standard(er) eller andre normgivende dokument(er), under forutssetning av at disse brukes i henhold til våre instrukser: vastaavat seuraavien standardien ja muiden ohjeellisten dokumenttien vaatimuksia edellyttäen, että niitä käytetään ohjeidemme mukaisesti:

EN60335-2-40,

following the provisions of: gemäß den Vorschriften der: conformément aux stipulations des:

overeenkomstig de bepalingen van: siguiendo las disposiciones de: secondo le prescrizioni per:

με τήρηση των διατάξεων των: de acordo com o previsto em: under iagttagelse af bestemmelserne i:

enligt villkoren i: gitt i henhold til bestemmelsene i: noudattaen määräyksiä: Low Voltage 73/23/EEC
Machinery Safety 98/37/EC
Electromagnetic Compatibility 89/336/EEC*

Directives, as amended. Direktiven, gemäß Änderung. Directives, telles que modifiées.

Richtlijnen, zoals geamendeerd. Directivas, según lo enmendado. Direttive, come da modifica.

Οδηγιών, όπως έχουν τροποποιηθεί. Directivas, conforme alteração em. Direktiver, med senere ændringer.

Direktiv, med företagna ändringar. Direktiver, med foretatte endringer. Direktiivejä, sellaisina kuin ne ovat muutettuina.

*Note as set out in the Hinweis wie in der Tech

Remarque

as set out in the Technical Construction File **DAIKIN.TCF.014** and judged positively by **NMi** according to the **Certificate 9110074503**. wie in der Technischen Konstruktionsakte **DAIKIN.TCF.014** aufgeführt und von **NMi** positiv ausgezeichnet gemäß **Zertifikat 9110074503**. tel que stipulé dans le Fichier de Construction Technique **DAIKIN.TCF.014** et jugé positivement par **NMi** conformément au **Certificat 9110074503**.

Bemerk zoals vermeld in het Technisch Constructiedossier DAIKIN.TCF.014 en in orde bevonden door NMi overeenkomstig Certificaat 9110074503.

Nota tal como se expone en el Archivo de Construcción Técnica DAIKIN.TCF.014 y juzgado positivamente por NMi según el Certificado 9110074503.

Nota delineato nel File Tecnico di Costruzione DAIKIN.TCF.014 e giudicato positivamente da NMi secondo il Certificato 9110074503.

Σημείωση όπως προσδιορίζεται στο Αρχείο Τεχνικής Κατασκευής **DAIKIN.TCF.014** και κρίνεται θετικά από το **NMi** σύμφωνα με το **Πιστοποιητικό 9110074503**. Nota Bemærk som anført i den Tekniske Konstruktionsfil **DAIKIN.TCF.014** og positivt vurderet af **NMi** i henhold til **Certifikat 9110074503**.

Som animit ruen revinse Ronstitutional Darkin. 101.014 og positivt virtuelet at Nim mermori til Certifikat 91100/4300.

Information utrustningen är utförd i enlighet med den Tekniska Konstruktionsfilen **DAIKIN.TCF.014** som positivt intygas av **NMi** vilket också framgår av **Certifikat 9110074503**.

Merk som det fremkommer i den Tekniske Konstruksjonsfilen **DAIKIN.TCF.014** og gjennom positiv bedømmelse av **NMi** ifølge **Sertifikat 9110074503**.

Huom jotka on esitetty Teknisessä Asiakirjassa **DAIKIN.TCF.014** ja jotka **NMi** on hyväksynyt **Sertifikaatin 9110074503** mukaisesti.

DAIKIN

Hitoshi Jinno
Manager Quality Control Department

Sakai, 1st of Feb 2003

DAIKIN INDUSTRIES, LTD.

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

DECLARATION-DE-CONFORMITE - CONFORMITEITSVERKLARING KONFORMITÄTSERKLÄRUNG

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

DECLARAÇÃO-DE-CONFORMIDADE 3ARBJIEHÚE-O-COOTBETCTBUU OPFYLDELSESERKLÆRING FÖRSÄKRAN-OM-ÖVERENSTÄMMELSE

CE - ERKLÆRING OM-SAMSVAR CE - ILMOITUS-YHDENMUKAISUUDESTA 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 - ATTIKTIES-DEKLARACIJA CE - ATBILSTIBAS-DEKLARĀCIJA CE - VYHLÁSENIE-ZHODY CE - UYUMLULUK-BILDIRISI

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02 🔘 erklärt auf seine alleinige Verantwortung daß die Modelle der Klimageräte für die diese Erklärung bestimmt ist: 01 (®) declares under its sole responsibility that the air conditioning models to which this declar ation relates:

03 (F) déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclar ation:

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 GB) δηλώνει με αποκλειστική της ευθύνη ότι τα μοντέλα των κλιμαπιστικών συσκευών στα οποία αναφέρεται η παρούσα δήλωση;

09 (в. в. заявляет, исключительно под свою ответственность, что модели кондиционеров воздуха, к которым относится настоящее заявление: 08 (P) declara sob sua exclusiva responsabilidade que os modelos de ar condicionado a que esta declaração se refere:

=XZQ20MVE, FXZQ25MVE, FXZQ32MVE, FXZQ40MVE, FXZQ50MVE

-XMQ40MVE, FXMQ50MVE, FXMQ63MVE, FXMQ80MVE, FXMQ100MVE, FXMQ125MVE, FXMQ200MVE, FXMQ250MVE *XCQ20MVE, FXCQ25MVE, FXCQ32MVE, FXCQ40MVE, FXCQ50MVE, FXCQ63MVE, FXCQ86MVE, FXCQ125MVE FXNQ20MVE, FXNQ25MVE, FXNQ32MVE, FXNQ40MVE, FXNQ50MVE, FXNQ63MVE FXLQ20MVE, FXLQ25MVE, FXLQ32MVE, FXLQ40MVE, FXLQ50MVE, FXLQ63MVE

=XHQ32MVE, FXHQ63MVE, FXHQ100MVE

FXSQ20MVE, FXSQ25MVE, FXSQ32MVE, FXSQ40MVE, FXSQ50MVE, FXSQ63MVE, FXSQ80MVE, FXSQ100MVE, FXSQ125MVE

02 der/den folgenden Norm(en) oder einem anderen Normdokument oder -dokumenten entspricht/entsprechen, unter der Voraussetzung, daß sie gemäß unseren Anweisungen eingesetzt werden:

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

acordo com as nossas instrucões:

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:

nuestras instrucciones:

förutsättning att användning sker i överensstämmelse med våra instruktioner:

instrukser:

disse brukes i henhold til våre instrukser:

mukaisesti:

06 sono conformi a(ii) 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 αήπφωνα με τις οδηγίες μας:

EN60335-2-40

10 under iagttagelse af bestemmelserne i: 17 zgodnie z postanowieniami Dyrektyw: 18 în urma prevederilor: 11 enligt villkoren i 16 követi a(z): 03 conformément aux stipulations des: 04 overeenkomstig de bepalingen van: 09 в соответствии с положениями 07 με τήρηση των διατάξεων των: 05 siguiendo las disposiciones de: 06 secondo le prescrizioni per: 08 de acordo com o previsto em: 02 gemäß den Vorschriften der: 01 following the provisions of:

25 bunun koşullarına uygun olarak: 22 laikantis nuostatu, pateikiamų: 23 ievērojot prasības, kas noteiktas: 24 održiavajúc ustanovenia: 21 следвайки клаузите на: 20 vastavalt nõuetele: 12 gitt i henhold til bestemmelsene i: 14 za dodržení ustanovení předpisu: 13 noudattaen määräyksiä: 15 prema odredbama:

19 ob upoštevanju določb:

06 * delineato nel File Tecnico di Costruzione «A» e giudicato positivamente da «B» secondo il Certificato «C». 01 * as set out in the Technical Construction File <A> and judged positively by according to the Certificate <C>.

02 * wie in der Technischen Konstruktionsakte <A> aufgeführt und von positiv ausgezeichnet gemäß Zertifikat <C>. zoals vermeld in het Technisch Constructiedossier < A> en in orde

overeenkomstig Certificaat <C> bevonden door

05 * tal como se expone en el Archivo de Construcción Técnica <A> y uzgado positivamente por **** según el **Certificado <C>**.

03 * tel que stipulé dans le Fichier de Construction Technique <A> et jugé positivement par conformément au Certificat <C>.

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07 * όπως προσδιορίζεται στο Αρχείο Τεχνικής Κατασκευής <Α> και κρίνεται θετικά από το <Β> σύμφωνα με το Πιστοποιητικό <C>. 10 * som anført i den Tekniske Konstruktionsfil «A» og positivt vurderet af «B» i henhold til Certifikat «C». com o parecer positivo de de acordo com o Certificado <C>. 08 * tal como estabelecido no Ficheiro Técnico de Construção <A> e соответствии с положительным решением <В> согласно 09 * как указано в Досье технического толкования <А> и в Свидетельству «С».

11 (S) deklarerar i egenskap av huvudansvarig, att luftkonditioneringsmodellerna som berörs av denna deklaration innebär att: 10 00) erklærer under eneansvar, at klimaanlægmodellerne, som denne deklaration vedrører:

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

13 (Fiv) ilmoittaa yksinomaan omalla vastuullaan, että tämän ilmoituksen tarkoittamat ilmastointilaitteiden mallit: 14 (CZ) prohlašuje ve své plné odpovědnosti, že modely klimatizace, k nímž se toto prohlášení vztahuje: 16 (H) teljes felelőssége tudatában kijelenti, hogy a klímaberendezés modellek, melyekre e nyilatkozat vonatkozik.

15 (HB) izjavljuje pod isključivo vlastitom odgovornošću da su modeli klima uređaja na koje se ova izjava odnosi:

23 (20) ar pilnu atbildību apliecīna, ka tālāk uzskaitīto modeļu gaisa kondiciorētāji, uz kuriem attiecas šī deklarācija: 24 (8) vyhlasuje na viastnu zodpovednost, ža tieto klimatizačne modely, na ktorē sa vzdahuje toto vyhlásenie. 25 (79) tanamen kendi sorumludigunda olmak tuzere bu bildirinin ītgli olduģu klima modellerinin aşaģidaki gibi olduģuru bejan eder.

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

20 (est) 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:

deb deklaruje na własną i wyłączną odpowiedzialność, że modele klimatyzatorów, których dotyczy niniejsza deklaracja:
 de @o deolara pe proprie ráspundere cá aparatele de aer condiţionat la care se referá aceastá declaraţie:

FXAQ20MVE, FXAQ25MVE, FXAQ32MVE, FXAQ40MVE, FXAQ50MVE, FXAQ63MVE FXKQ25MVE, FXKQ32MVE, FXKQ40MVE, FXKQ63MVE BEVQ71MVE, BEVQ100MVE, BEVQ125MVE FXU071MV1, FXU0100MV1, FXU0125MV1

FXAQ20MHV1, FXAQ25MHV1, FXAQ32MHV1, FXAQ40MHV1, FXAQ50MHV1

BEVQ50MVE

FXMQ125MFV1, FXMQ200MFV1, FXMQ250MFV1

FXLQ20MHV1, FXLQ25MHV1, FXLQ32MHV1, FXLQ40MHV1, FXLQ50MHV1. FXMO100MAVE, FXMO125MAVE, FXMO200MAVE, FXMO250MAVE FXMQ40MAVE, FXMQ50MAVE, FXMQ63MAVE, FXMQ80MAVE FXNQ20MAVE, FXNQ25MAVE, FXNQ32MAVE, FXNQ40MAVE FXLQ20MAVE. FXLQ25MAVE. FXLQ32MAVE. FXLQ40MAVE FXNQ50MAVE, FXNQ63MAVE FXLQ50MAVE, FXLQ63MAVE

FXKQ25MAVE, FXKQ32MAVE, FXKQ40MAVE, FXKQ63MAVE FXAQ20MAVE, FXAQ25MAVE, FXAQ32MAVE, FXAQ40MAVE 3EVQ71MAVE, BEVQ100MAVE, BEVQ125MAVE FXHQ32MAVE, FXHQ63MAVE, FXHQ100MAVE FXUQ71MAV1, FXUQ100MAV1, FXUQ125MAV1 FXAQ50MAVE, FXAQ63MAVE

17 spełniaja wymogi następujących norm 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: 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

18 sunt în conformitate cu următorul (următoarele) standard(e) sau alt(e) document(e) normativ(e), cu condiția ca acestea să fie utilizate în conformitate cu instrucțiunile noastre инструкциям: 10 overholder falgende standard(er) eller andetlandre retningsgivende dokument(er), forudsat at disse anvendes i henhold til vore

21 съответстват на следните стандарти или други нормативни документи, при условие, че се използват съгласно нашите 19 skladni z naslednjimi standardi in drugimi normativi, pod pogojem, da se uporabljajo v skladu z našimi navodili: 20 on vastavuses järgmis(t)e standardi(le)ga või teiste normatiivsete dokumentidega, kui neid kasutatakse vastavatt meie juhenditele: 11 respektive utrustning är utförd i överensstämmelse med och följer följande standard(er) eller andra normgivande dokument, under

22 atitinka žemiau nurodytus standartus ir (arba) kitus norminius dokumentus su salyga, kad yra naudojami pagal mūsų nurodymus:

инструкции: 12 respektive utstyr er i overensstemmelse med følgende standard(er) eller andre normgivende dokument(er), under forutssetning av at

23 tad. ja lietoti atbilstoši ražotāja norādījumiem, atbilst sekojošiem standartiem un citiem normatīviem dokumentiem: 13 vastaavat seuraavien standardien ja muiden ohleellisten dokumenttien vaatimuksia edellyttäen, että niitä käytetään ohleidemme

24 sú v zhode s nasledovnou(ými) normou(ami) alebo iným(i) normatívnym(i) dokumentom(ami), za predpokladu, že sa pouzívajú v súlade s našim návodom:

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 nomám nebo normatívním dokumentům:

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

Electromagnetic Compatibility 89/336/EEC Low Voltage 73/23/EEC Machinery Safety 98/37/EC

16* a(z) <A> műszaki konstrukciós dokumentáció alapján, a(z) igazolta a megfelelést a(z) <C> tanúsítvány szerint. 11 * utrustningen är utförd i enlighet med den Tekniska Konstruktionsfilen <A> som positivt intygas av vilket också 17 * zgodnie z archiwalną dokumentacją konstrukcyjną <A>, pozytywną opinia i Świadectwem <C> 12 * som det fremkommer i den Tekniske Konstruksjonsfilen <A> og gjennom positiv bedømmelse av ifølge Sertifilkat <C>.

framgår av Certifikat <C>.

13 * jotka on esitetty Teknisessä Asiakirjassa <A> ja jotka on hyvāksynyt Sertifikaatin <C> mukaisesti.

14* jak bylo uvedeno v souboru technické konstrukce <A> a pozitivně zjištěno v souladu s osvědčením <C>.

15 * kako je izloženo u Datoteci o tehničkoj konstrukciji «A» i pozitivno ocijenjeno od strane «B» prema Certifikatu «C».

20 * nagu on näidatud tehnilises dokumentatsioonis <A> ja heaks kiidetud järgi vastavalt sertifilkaadile <C>.

19 * kot je določeno v tehnični mapi <A> in odobreno s strani 1 18 * conform celor stabilite în Dosarul tehnic de construcție <A> și

skladu s certifikatom <C>.

apreciate pozitiv de în conformitate cu Certificatul <C>

21 * както е заложено в Акта за техническа конструкция <А> и оценено положително от <В> съгласно Сертификат <С>.

<A> DAIKIN.TCF.022

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25 Değiştirilmiş halleriyle Yönetmelikler

16 iránvelv(ek) és módosításaik rendelkezéseit.

07 Οδηγιών, όπως έχουν τροποποιηθεί

05 Directivas, según lo enmendado. 03 Directives. telles que modifiées. 04 Richtlijnen, zoals geamendeerd.

06 Direttive, come da modifica.

01 Directives, as amended. 02 Direktiven, gemäß Änderung.

08 Directivas, conforme alteração em. 09 Директив со всеми поправками

15 Smjernice, kako je izmijenjeno. 17 z późniejszymi poprawkami.

14 v platném znění

18 Directivelor, cu amendamentele respective

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

20 Direktiivid koos muudatustega.

23 Direktīvās un to papildinājumos.

24 Smernice, v platnom znení.

22 Direktyvose su papildymais.

13 Direktiivejä, sellaisina kuin ne ovat muutettuina.

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

22 * kaip nurodyta Techninėje konstrukcijos byloje <A> ir patvirtinta pagal pažymėjimą <C>

23 * kā noteikts tehniskajā dokumentācijā <A>, atbilstoši pozitīvajam lēmumam ko apliecina sertifikāts <C>. 24 * ako je to stanovené v Súbore technickej konštrukcie <A> a kladne posúdené podľa Certifikátu <C>.

25 * < A> Teknik Yapı Dosyasında belirtildiği gibi ve < C> sertifikasına göre < B> tarafından olumlu olarak değerlendirilmiştir.

DAIKIN INDUSTRIES.

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

Manager Quality Control Department 1st of November 2005 Noboru Murata



FXAQ20MAVE FXAQ25MAVE FXAQ32MAVE FXAQ40MAVE FXAQ50MAVE FXAQ63MAVE

VRV SYSTEM Inverter Air Conditioners

Installation manual

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1. SAFETY CONSIDERATIONS

Please read these "SAFETY CONSIDERATIONS" carefully before installing air conditioning equipment and be sure to install it correctly. After completing the installation, make sure that the unit operates properly during the start-up operation. Please instruct the customer on how to operate the unit and keep it maintained. Also, inform customers that they should store this installation manual along with the operation manual for future reference.

This air conditioner comes under the term "appliances not accesible to the general public".

Meaning of warning and caution symbols.



WARNING Failure to observe a warning may result in death or serious injury.



CAUTION Failure to observe a caution may result in injury or damage to the equipment.



· /!\ WARNING -

- Ask your dealer or qualified personnel to carry out installation work. Do not try to install the machine yourself. Improper installation may result in water leakage, electric shocks or fire.
- Perform installation work in accordance with this installation manual. Improper installation may result in water leakage, electric shocks or fire.
- When installing the unit in a small room, take measures against to keep refrigerant concentration from
 exceeding allowable safety limits in the event of refrigerant leakage. Contact the place of purchase for more
 information. Excessive refrigerant in a closed ambient can lead to oxygen deficiency.
- Be sure to use only the specified accessories and parts for installation work.

 Failure to use the specified parts may result in water leakage, electric shocks, fire or the unit falling.
- 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 injuries.
- Carry out the specified installation work after taking into account strong winds, typhoons or earthquakes. Improper installation work may result in the equipment falling and causing accidents.
- Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel according to local laws and regulations and this installation manual.

 An insufficient power supply capacity or improper electrical construction may lead to electric shocks or fire.

- Make sure that all wiring is secured, the specified wires are used, and no external forces act on the terminal
 connections or wires.
 - Improper connections or installation may result in fire.
- When wiring the power supply and connecting the wiring between the indoor and outdoor units, position the wires so that the control box cover can be securely fastened.
 - Improper positioning of the control box cover may result in electric shocks, fire or the terminals overheating.
- If the refrigerant gas leaks during installation, ventilate the area immediately. Toxic gas may be produced if the refrigerant gas comes into contact with fire.
- After completing the installation work, check that the refrigerant gas does not leak.
 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.
- Before touching electrical parts, turn off the unit.
- 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.

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- While following the instructions in this installation manual, install drain piping in order to ensure proper drainage and insulate piping in order to prevent condensation.
 Improper drain piping may result in water leakage and property damage.
- Install the indoor and outdoor units, power cord and connecting wires at least 1 meter away from televisions or radios in order to prevent image interference or noise.
 - (Depending on the radio waves, a distance of 1 meter may not be sufficient enough to eliminate the noise.)
- Remote controller (wireless kit) transmitting distance can result shorter than expected in rooms with electronic fluorescent lamps. (inverter or rapid start types)
 - Install the indoor unit as far away from fluorescent lamps as possible.
- Do not install the air conditioner in the following locations:
 - (a) where a mineral oil mist or an oil spray or vapor is produced, for example in a kitchen Plastic parts may deteriorate and fall off or result in water leakage.
 - (b) where corrosive gas, such as sulfurous acid gas, is produced Corroding copper pipes or soldered parts may result in refrigerant leakage.
 - (c) near machinery emitting electromagnetic waves Electromagnetic waves may disturb the operation of the control system and result in a malfunction of the equipment.
 - (d) where flammable gases may leak, where there are carbon fiber or ignitable dust suspensions in the air, or where volatile flammables such as thinner or gasoline are handled.
 - Operating the unit in such conditions may result in fire.

2. BEFORE INSTALLATION

Do not exert pressure on the resin parts when opening the unit or when moving it after opening. Before rigging tubes, check which type of refrigerant is used. Proper operation is not possible if the types of refrigerant are not the same.

- Be careful not to bend any of the plastic parts when moving the unit when taking it out of the packing case or afterwards.
- Decide upon a line of transport.
- When transporting, transport to the installation location without taking it out of the packing case. If you have to remove the unit from the packing case when transporting it, be sure not to damage it.
- Refer to the installation manual of the outdoor unit for items not described in this manual.
- Do not dispose of any parts necessary for installation until the installation is complete.

2-1 PRECAUTIONS

- Be sure to read this manual before installing the indoor unit.
- Entrust installation to the place of purchase or a qualified serviceman. Improper installation could lead to leaks and, in worse cases, electric shock of fire.
- Use only parts provided with the unit or parts satisfing required specifications. Unspecified parts could cause the unit to fall out of place, or could lead to leaks and, in worse cases, electric shock or fire.
- Do not install or operate the unit in rooms mentioned below.
 - Laden with mineral oil, or filled with oil vapor or spray like in kitchens. (Plastic parts may deteriorate which could eventually cause the unit to fall out of place, or could lead to leaks.)
 - Where corrosive gas like sulfurous gas exists. (Copper tubing and brazed spots may corrode, which could eventually lead to refrigerant leaks.)
 - · Where volatile flammable gas like thinner or gasoline is used.
 - Where exposed to combustible gases and where voltatile flammable gas like thinner or gasoline is used. (Gas in the vicinity of the unit could ignite.)
 - Where machines can generate electromagnetic waves. (Control system may malfunction.)
 - Where the air contains high levels of salt such as that near the ocean and where voltage fluctuates greatly such as that in factories. Also in vehicles or vessels.
- When selecting installation site, refer to the installation pattern.
- This unit, both indoor and outdoor, is suitable for installation in a commercial and light industrial environment. If installed as a household appliance it could cause electromagnetic interference.

2-2 ACCESSORIES

Check the following accessories are included with your unit.

Name (1) Installation panel		(2) Attachment screws for the installation panel	(3) Paper pattern for installation	(4) Insulating tape
Quantity 1 set 8 pcs. \rightarrow FXA(Q)20,25,32 type 9 pcs. \rightarrow FXA(Q)40,50,63 type		1 pc.	1 pc.	
Shape		M4 × 25L		

Name	(5) Clamp	(6) Securing screws	
Quantity	1 large 3 small	2 pcs.	
Shape		M4 × 12L	Other) Operation manual Installation manual

2-3 OPTIONAL ACCESSORIES

• These are two types of remote controllers: wired and wireless. Select a remote controller according to customer request and install in an appropriate place.

Remote controller	Model	
Wired type	BRC1C51	
when type	BRC1A61	
	Heat pump type	BRC7E618
Wireless type	Cooling only type	BRC7E619

• If the customer wishes to use a remote controller that is not listed above, select a suitable remote controller after consulting catalogs and technical materials.

FOR THE FOLLOWING ITEMS, TAKE SPECIAL CARE DURING CONSTRUCTION AND CHECK AFTER INSTALLATION IS FINISHED.

1. Items to be checked after completion of work

Items to be checked	If not properly done, what is likely to occur	Check
Are the indoor and outdoor unit fixed firmly?	The units may drop, vibrate or make noise.	
Is the gas leak test finished?	It may result in insufficient cooling.	
Is the unit fully insulated?	Condensate water may drip.	
Does drainage flow smoothly?	Condensate water may drip.	
Does the power supply voltage correspond to that shown on the name plate?	The unit may malfunction or the components burn out.	
Are wiring and piping correct?	The unit may malfunction or the components burn out.	
Is the unit safely grounded?	Dangerous at electric leakage.	
Is wiring size according to specifications?	The unit may malfunction or the components burn out.	
Is something blocking the air outlet or inlet of either the indoor or outdoor units?	It may result in insufficient cooling.	
Are refrigerant piping length and additional refrigerant charge noted down?	The refrigerant charge in the system is not clear.	

2. Items to be checked at time of delivery

* Also review the "SAFETY CONSIDERATIONS"

Items to be checked	Check
Did you explain about operations while showing the operation manual to your customer?	
Did you hand the operation manual over to your customer?	

Points for explanation about operations

The items with \triangle WARNING and \triangle CAUTION marks in the instruction manual are the items pertaining to possibilities for bodily injury and material damage in addition to the general usage of the product. Accordingly, it is necessary that you make a full explanation about the described contents and also ask your customers to read the instruction manual.

2-4 NOTE TO THE INSTALLER

Be sure to instruct customers how to properly operate the unit (especially cleaning filters, operating different functions, and adjusting the temperature) by having them carry out operations themselves while looking at the manual.

3. SELECTING INSTALLATION SITE

- (1) Select an installation site where the following conditions are fulfilled and that meets with your customer's approval.
 - In the upper space (including the back of the ceiling) of the indoor unit where there is no possible dripping of water from the refrigerant pipe, drain pipe, water pipe, etc.
 - Where the wall is strong enough to bear the indoor unit weight.
 - Where sufficient clearance for installation and maintenance can be ensured.
 (Refer to Fig. 1 and Fig. 2)

- Where optimum air distribution can be ensured.
- Where nothing blocks the air passage.
- Where condensate can be properly drained.
- · Where the wall is not significantly tilted.
- Where not exposed to combustible gases.
- Where pipe between indoor and outdoor units is possible within the allowable limit. (Refer to the installation manual of the outdoor unit.)
- Install the indoor and outdoor units, power cable and transmission wiring, at least 1 m from TVs and radios, to prevent distorted pictures and static. (Depending on the type and source of the electrical waves, static may be heard even when more than 1 m away.)
- Install the indoor unit no less than 2.5 m above the floor. Where unavoidably lower, take what measures are necessary to keep hands out of the air inlet.
- Where the cool (warm) air reaches all across the room.

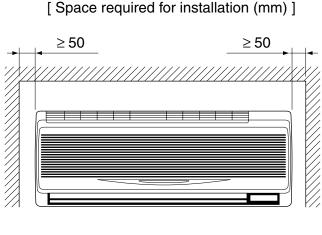
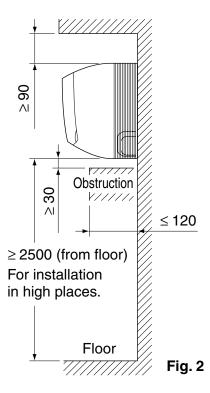


Fig. 1



- (2) Consider whether the place where the unit will be installed can support the full weight of the unit, and reinforce it with boards and beams, etc. if needed before proceeding with the installation. Also, reinforce the place to prevent vibration and noise before installing. (The installation pitch can be found on the paper pattern for installation (3), so refer to it when considering the necessity for reinforcing the location.)
- (3) The indoor unit may not be directly installed on the wall. Use the attached installation panel (1) before installing the unit.

4. INDOOR UNIT INSTALLATION

• Use only accessories and parts which are of the designated specification when installing.

- Install so that the unit does not tilt to either side or forward.
- Do not hold the unit by the horizontal flaps when lifting it. (This may damage the horizontal flaps.)

(1) Open the piping through-hole.

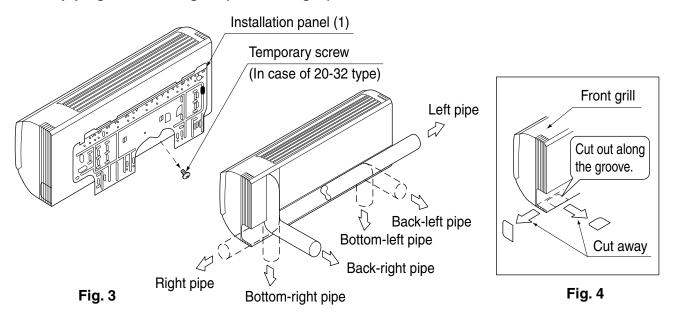
• The refrigerant pipe and drain pipe can be passed out in one of 6 directions: left, bottom-left, back-left, right, bottom-right, and back-right. (Refer to Fig. 3)

- Using the paper pattern for installation (3), choose where to pass the piping out and open a through-hole (φ80) in the wall.
 - Open the hole so that there is a downward slope for the drain piping. (See "6.DRAIN PIPING WORK")
- (2) Remove the installation panel (1) from the unit and attach to the wall.

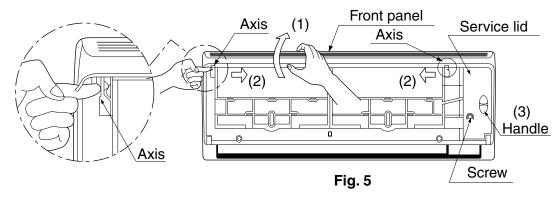
(The installation panel is temporarily attached to the unit with screw. (In case of 20-32 type)) (Refer to Fig. 3)

- (a) Check the location for the hole using the included paper pattern for installation (3).
 - Choose a location so that there is at least a 90 mm gap between the ceiling and the main unit.
- (b) Temporarily attach the installation panel (1) at the temporary-securing position on the paper pattern for installation (3) and use a level to make sure the drain hose is either level or tilted slightly downward.
- (c) Secure the installation panel (1) to the wall using either screws or bolts.
 - If using the attachment screws for the installation panel (2), attach using at least 4 screws on either side (for a total of 8 screws (20-32 type), 9 screws (40-63 type)) of the recommended installation cleat position on the included paper pattern for installation (3).
 - If using bolts, attach using a M8 M10 bolt (for a total of 2 bolts) on either side.
 - If dealing with concrete, use commercially available foundation bolts (M8 M10).

(3) If using the left, bottom-left, right, or bottom-right positions for the piping, cut out the through-hole for the piping in the front grill. (Refer to Fig. 4)



- (4) Remove the front panel and the service lid. (Refer to Fig. 5)
 - < How to remove the front panel and service lid >
 - (1) Open the front panel to the point where it stops.
 - (2) Push the axes on either side of the front panel towards the center of the main unit and remove. (You can also remove it by sliding the front panel either to the left or right and pulling it forward.)
 - (3) Remove the screw from the service lid and pull the handle forward.



(5) Point the pipe in the direction it will be passed out.

For right, bottom-right, and back-right piping (Refer to Fig. 6)

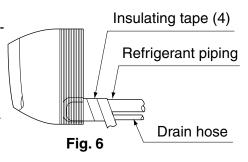
Wrap the drain hose and the refrigerant piping together with the insulating tape (4) so that the drain hose is below the refrigerant piping.

For left, bottom-left, and left-back piping

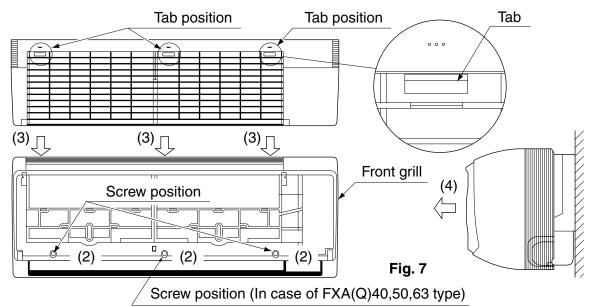
• Remove the front grill. (Refer to Fig. 7)

< How to remove the front grill >

Remove the front grill as described below when securing the indoor unit with screws or when attaching Optional Accessories (wireless remote controller, adapter PC board, etc.).



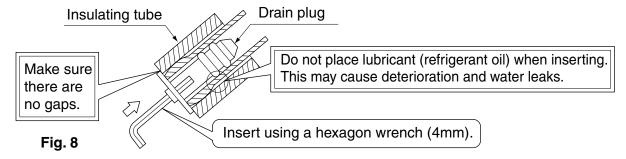
- (1) Remove the front panel.
- (2) Remove the screws (2 places in case of FXA(Q)20,25,32 type/3 places in case of FXA(Q)40,50,63 type) securing the front grill.
- (3) Remove the tabs (3 places) securing the front grill by pushing them in the direction of the arrows.
- (4) Making sure not to catch the horizontal flaps, remove the front grill by pulling in the direction of the arrow.



- Remove the drain plug, the insulation tubing, and the drain hose from the drain pan and replace. (Refer to Fig. 8)
- Connect the local refrigerant piping ahead of time, matching it to the liquid pipe and gas pipe marks engraved on the installation panel (1).

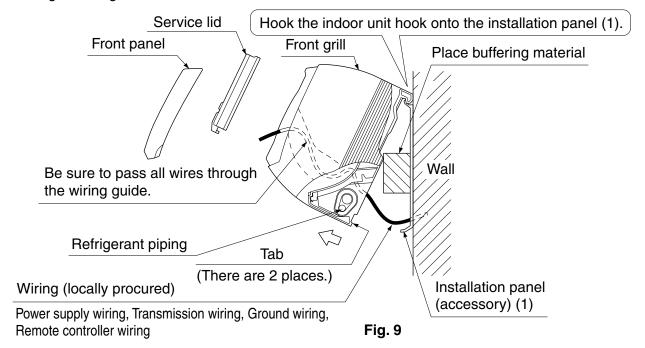
< Replacing the drain hose and drain plug >

- (1) Remove the drain plug and insulation tubing.
- (2) Remove the drain hose and replace onto the left side.
- (3) Replace the drain plug and the insulation tubing onto the right side.



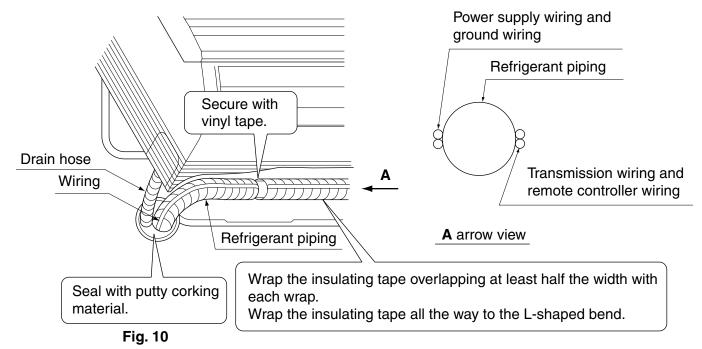
(6) Hook the indoor unit onto the installation panel. (Refer to Fig. 9)

• Placing buffering material between the wall and the indoor unit at this time will make work easier.



For right, bottom-right, and back-right piping

- Pass the drain hose and the refrigerant piping to the wall.
- (7) Pass power supply wiring, transmission wiring, ground wiring, and remote controller wiring through the wiring guide in through the back of the indoor unit and to the front.
- (8) Connect the piping. (See "5.REFRIGERANT PIPING WORK" and Fig. 10)



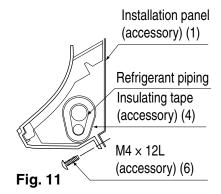
- To avoid the influence of noise from the power supply line on the transmission wiring and the remote
 controller wiring, these wirings must be kept as far as possible from the power/ground wirings. As shown in the
 figure, keep the power supply wiring and the ground wiring together. Keep the transmission and remote controller wirings together and route them maintaining a good distance from the power supply/ground wirings
 (that is, on the other side of the power supply/ground wirings). Then, fix them securely on the refrigerant pipe.
- Seal the piping through-hole with putty corking material.
- (9) Push on both bottom edges of the indoor unit using both hands and hook the tab on the back of the indoor unit onto the installation panel (1). (Refer to Fig. 9)

• At this time remove the buffering material placed in step (6).

• Make sure power supply wiring, transmission wiring, ground wiring and remote controller wiring are not caught inside the indoor unit.

■ When screwing in the indoor unit

- Remove the front grill. (Refer to Fig. 7)
- Secure the indoor unit to the installation panel (1) with the securing screws (6). (Refer to Fig. 11)



5. REFRIGERANT PIPING WORK

⟨For refrigerant piping of outdoor units, see the installation manual attached to the outdoor unit.⟩ ⟨Execute heat insulation work completely on both sides of the gas piping and the liquid piping. Otherwise, a water leakage can result sometimes.⟩

(When using a heat pump, the temperature of the gas piping can reach up to approximately 120°C, so use insulation which is sufficiently resistant.)

(Also, in cases where the temperature and humidity of the refrigerant piping sections might exceed 30°C or RH80 %, reinforce the refrigerant insulation. (20 mm or thicker) Condensation may form on the surface of the insulating material.)

(Before refrigerant piping work, check which type of refrigerant is used. Proper operation is not possible if the types of refrigerant are not the same.)

—/!\ CAUTION

- Use a pipe cutter and flare suitable for the type of refrigerant.
- Apply ester oil or ether oil around the flare section before connecting.
- To prevent dust, moisture or other foreign matter from infiltrating the tube, either pinch the end or cover it with tape.
- Do not allow anything other than the designated refrigerant to get mixed into the refrigerant circuit, such as air, etc. If any refrigerant gas leaks while working on the unit, ventilate the room thoroughly right away.
- The outdoor unit is charged with refrigerant.
- Use copper alloy seamless pipes (ISO 1337)
- Be sure to use both a spanner and torque wrench together, as shown in the drawing, when connecting or disconnecting pipes to/from the unit. (Refer to Fig. 12)
- Refer to "Table 1" for the dimensions of flare nut spaces.
- When connecting the flare nut, coat the flare section (both inside and outside) with ester oil or ether oil, rotate three or four times first, then screw in. (Refer to Fig. 13)

−<u></u> CAUTION

- Over-tightening may cause the flare nuts to crack or the refrigerant to leak.
- Use the flare nut included with the unit main body.

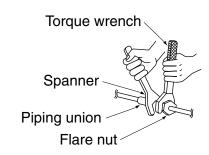


Fig. 12

Ester oil or ether oil

Fig. 13

• Refer to Table 1 for tightening torque.

Table 1

Dina siza	Tightoning torque	Flare dimensions A (mm)		Flore	
Pipe size	Tightening torque	FXA-LVE(C)	FXAQ-M(A)VE	Flare	
φ 6.4 (1/4")	14.2 − 17.2N·m	8.6 – 9.0	8.7 – 9.1	50	
ф 9.5 (3/8")	32.7 – 39.9N⋅m	12.6 – 13.0	12.8 – 13.2	。/ R0.4-0.8	
ф 12.7 (1/2")	49.5 – 60.3N·m	15.8 – 16.2	16.2 – 16.6	06 H0.4-0.8	
ф 15.9 (5/8")	61.8 − 75.4N·m	19.0 – 19.4	19.3 – 19.7		

Not recommendable but in case of emergency

You must use a torque wrench but if you are obliged to install the unit without a torque wrench, you may follow the installation method mentioned below.

After the work is finished, make sure to check that there is no gas leak.

When you keep on tightening the flare nut with a spanner, there is a point where the tightening torque suddenly increases. From that position, further tighten the flare nut the angle shown below:

Table 2

Pipe size	Further tightening angle	Recommended arm length of tool
φ 6.4 (1/4")	60 to 90 degrees	Approx. 150mm
ф 9.5 (3/8")	60 to 90 degrees	Approx. 200mm
φ12.7 (1/2")	30 to 60 degrees	Approx. 250mm
φ15.9 (5/8") 30 to 60 degrees		Approx. 300mm

—∕!\ CAUTION

CAUTION TO BE TAKEN WHEN BRAZING REFRIGERANT PIPING

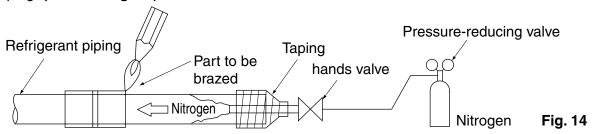
"Do not use flux when brazing refrigerant piping. Therefore, use the phosphor copper brazing filler metal (BCuP-2: JIS Z 3264/B-Cu93P-710/795: ISO 3677) which does not require flux."

(Flux has extremely harmful influence on refrigerant piping systems. For instance, if the chlorine based flux is used, it will cause pipe corrosion or, in particular, if the flux contains fluorine, it will damage the refrigerant oil.)

• When brazing the refrigerant piping, only begin brazing after having carried out nitrogen substitution (NOTE 1) or while inserting nitrogen into the refrigerant piping (NOTE 2). Once this is done, connect the indoor unit with a flared or a flanged connection.

NOTES **

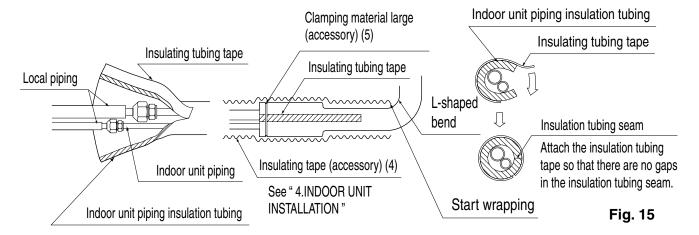
- 1. Refer to the "Manual for Multi Installation for Buildings" for directions on how to carry out nitrogen substitution. (Inquire with your dealer.)
- 2. Nitrogen should be set to 0.02 MPa with a pressure-reducing valve if brazing while inserting nitrogen into the piping. (Refer to Fig. 14)



−<u></u> CAUTION

Be sure to insulate any field piping all the way to the piping connection inside the unit. Any exposed piping may cause condensation or burns if touched.

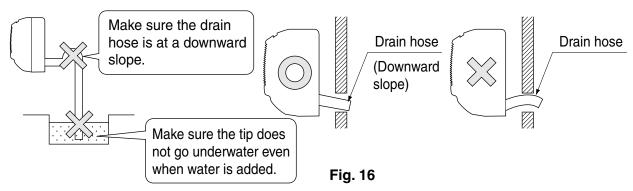
• After checking for gas leaks, be sure to insulate the pipe connections using the supplementary piping insulation tubing and insulating tape (4). The insulating tape (4) should be wrapped from the L-shaped bend all the way to the end inside the unit. (Refer to Fig. 15)



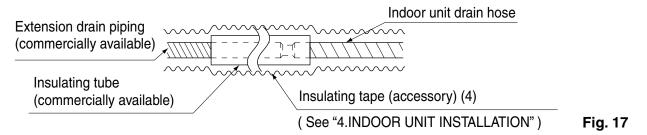
6. DRAIN PIPING WORK

(1) Install the drain piping. (Refer to Fig. 16)

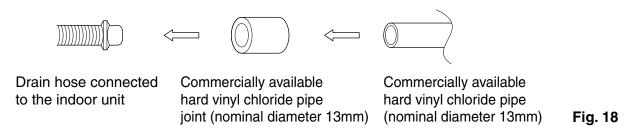
- The drain pipe should be short with a downward slope and should prevent air pockets from forming.
- Watch out for the points in the figure 16 when performing drain work.



 When extending the drain hose, use a commercially available drain extension hose, and be sure to insulate the extended section of the drain hose which is indoors. (Refer to Fig. 17)

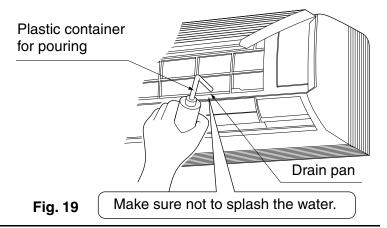


- Make sure the diameter of the piping is the same as the piping (hard vinyl chloride, nominal diameter 13mm) or bigger.
- When directly connecting a hard vinyl chloride pipe joint (nominal diameter 13mm) to the drain hose connected to the indoor unit (i.e. for embedded piping, etc.), use a commercially available hard vinyl chloride pipe joint (nominal diameter 13mm). (Refer to Fig. 18)



(2) Make sure the drain works properly.

 After drain work is complete, perform a drain check by opening the front panel, removing the air filter, pouring water into the drain pan, and making sure water flows smoothly out of the drain hose. (Refer to Fig. 19)





·/!\ CAUTION

Drain piping connections

Do not connect the drain piping directly to sewage pipes that smell of ammonia. The ammonia in the sewage might enter the indoor unit through the drain pipes and corrode the heat exchanger. Keep in mind that it will become the cause of getting drain pipe blocked if water collects on drain pipe.

7. ELECTRIC WIRING WORK

7-1 GENERAL INSTRUCTIONS

- All field supplied parts and materials and electric works must conform to local codes.
- Use copper wire only.
- For electric wiring work, refer to also "WIRING DIAGRAM" attached to the unit body.
- For remote controller wiring details, refer to the installation manual attached to the remote controller.
- All wiring must be performed by an authorized electrician.
- This system consists of multiple indoor units. Mark each indoor unit as unit A, unit B..., and be sure the terminal board wiring to the outdoor unit and BS unit are properly matched. If wiring and piping between the outdoor unit and an indoor unit are mismatched, the system may cause a malfunction.
- A circuit breaker capable of shutting down power supply to the entire system must be installed.
- Refer to the installation manual attached to the outdoor unit for the size of power supply wiring connected to the outdoor unit, the capacity of the circuit breaker and switch, and wiring instructions.
- Be sure to ground the air conditioner.
- Do not connect the ground wire to gas pipes, water pipes, lightning rods, or telephone ground wires.
 - · Gas pipes: might cause explosions or fire if gas leaks.
 - Water pipes: no grounding effect if hard vinyl piping is used.
 - Telephone ground wires or lightning rods: might cause abnormally high electric potential in the ground during lighting storms.

7-2 ELECTRICAL CHARACTERISTICS

	Power	supply	Fan r	notor										
Model	Hz	Volts	Voltage range	MCA	MFA	kW	FLA							
FXA(Q)20LVE(M(A)VE)				0.3	15	0.04	0.2							
FXA(Q)25LVE(M(A)VE)				0.4	15	0.04	0.3							
FXA(Q)32LVE(M(A)VE)	50	220 - 240	Max. 264	0.4	15	0.04	0.3							
FXA(Q)40LVE(M(A)VE)	50		220 - 240	220 - 240	220 - 240	220 - 240	220 - 240	220 - 240	220 - 240	Min. 198	0.4	15	0.043	0.3
FXA(Q)50LVE(M(A)VE)					0.4	15	0.043	0.3						
FXA(Q)63LVE(M(A)VE)				0.6	15	0.043	0.5							
FXA(Q)20LVE(M(A)VE)		220		0.3	15	0.04	0.2							
FXA(Q)25LVE(M(A)VE)			220				0.3	15	0.04	0.2				
FXA(Q)32LVE(M(A)VE)	60			Max. 242	0.4	15	0.04	0.3						
FXA(Q)40LVE(M(A)VE)	00			220	, ZZO Mir	Min. 198	0.4	15	0.043	0.3				
FXA(Q)50LVE(M(A)VE)				0.4	15	0.043	0.3							
FXA(Q)63LVE(M(A)VE)				0.6	15	0.043	0.5							

MCA: Min. Circuit Amps (A); MFA: Max. Fuse Amps (A) kW: Fan Motor Rated Output (kW); FLA: Full Load Amps (A)

7-3 SPECIFICATIONS FOR FIELD SUPPLIED FUSES AND WIRE

Model	Power supply wiring			Remote controller wiring Transmission wiring		
Model	Field fuses	Wire	Size	Wire	Size	
FXA(Q)20LVE(M(A)VE)						
FXA(Q)25LVE(M(A)VE)			Wire size must comply with local codes.	Vinyl cord with sheath or cable (2 wire)	0.75 - 1.25 mm²	
FXA(Q)32LVE(M(A)VE)	15A	H02/// 113C				
FXA(Q)40LVE(M(A)VE)	15A	HU3VV - U3G				
FXA(Q)50LVE(M(A)VE)						
FXA(Q)63LVE(M(A)VE)						

Allowable length of transmission wirings and remote controller wiring are as follows.

(1) Outdoor unit - Indoor unit:

Max. 1000m (Max. wiring length: 2000m)

(2) Indoor unit - Remote controller: Max. 500m

8. HOW TO CONNECT WIRINGS AND WIRING EXAMPLE

8-1 HOW TO CONNECT WIRINGS

Methods of wiring power supply, units and connecting remote controller wiring

Power supply wiring

Unscrew and remove the service lid.

Connect the power supply wiring and ground wiring to the power supply terminal block (3P).

When doing this, tie the power supply wiring and the ground wiring using the included clamp (small) (5) and then firmly secure using the included clamp (small) (5) according to the figure. (Refer to Fig. 20)

Transmission withing

 Transmission wiring and remote controller wiring Unscrew and remove the service lid.

Connect the remote controller wiring and the transmission wiring to the terminal block (6P).

When doing this, tie the remote controller wiring and the transmission wiring using the included clamp (small) (5) and then firmly secure using the included clamp (small) (5) according to the figure. (Refer to Fig. 20)

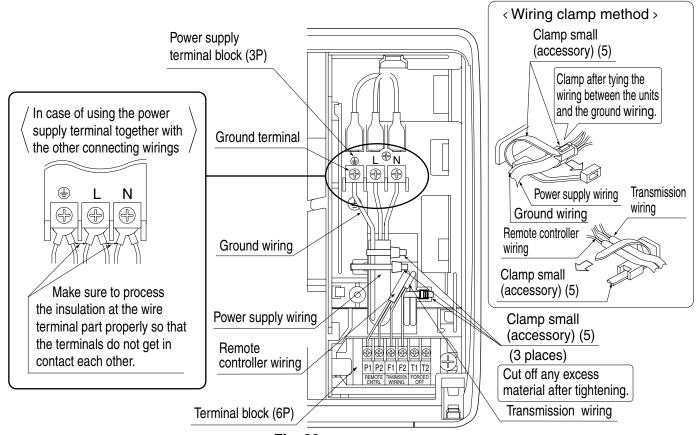


Fig. 20

—<u></u> ∴ CAUTION

Be sure to attach the sealing material and putty (field supplied) to hole of wiring to prevent the infiltration of water as well as any insects and other small creatures from outside. Otherwise a short-circuit may occur inside the electric parts box.

When clamping the wirings, be sure no pressure is applied to the wire connections by using the included clamp to make appropriate clamps. Also, when wiring, make sure the lid on the control box fits snugly by arranging the wirings neatly and attaching the service lid firmly. When attaching the service lid, make sure no wirings get caught in the edges. Pass wiring through the wiring through holes to prevent damage to them.

Make sure the remote controller wiring, and transmission wire the wiring between the units, and other electrical wiring do not pass through the same locations outside the machine, separating them by at least 50mm, otherwise electrical noise (external static) could cause mistaken operation or breakage.

Use only specified wire and tightly connect wires to terminals. Be careful wires do not place external stress on terminals. Keep wiring in neat order and so as not to obstruct other equipment such as popping open the service cover. Make sure the cover closes tight. Incomplete connections could result in overheating, and in worse case, electric shock or fire.

[PRECAUTIONS]

1. Use round crimp-style terminals for connecting wires to the power supply terminal board. (Refer to Fig. 21)

If unavailable, observe the following points when wiring.

- Do not connect wires of different gauge to the same power supply terminal. (Looseness in the connection may cause overheating.)
- When connecting wires of the same gauge, connect them according to Fig. 22.
- Use the specified electric wire. Connect the wire securely to the terminal. Lock the wire down without applying excessive force to the terminal. (Tightening torque: 131N·cm ±10 %)

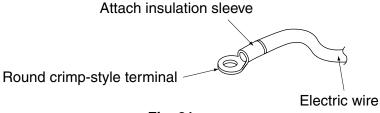


Fig. 21

2. Tightening torque for the terminal screws.

- Use the correct screwdriver for tightening the terminal screws. If the blade of screwdriver is too small, the head of the screw might be damaged, and the screw will not be properly tightened.
- If the terminal screws are tightened too hard, screws might be damaged.
- Refer to the table below for the tightening torque of the terminal screws.

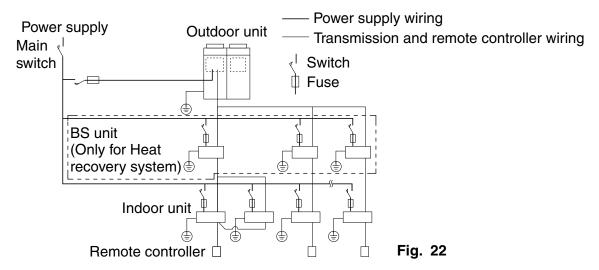
Terminal	Size	Tightening torque
Remote controller, Transmission wiring and Forced off terminal block (6P)	M3.5	0.79 – 0.97N·m
Power supply and Ground terminal block (3P)	M4	1.18 – 1.44N⋅m

- **3.** Do not connect wires of different gauge to the same ground terminal. Looseness in the connection may deteriorate protection.
- **4.** Keep transmission wiring at least 50mm away from power supply wiring. The equipment may malfunction if subjected to electrical (external) noise.
- **5.** For remote controller wiring, refer to the "INSTALLATION MANUAL OF REMOTE CONTROLLER" attached to the remote controller.
- 6. Never connect power supply wiring to the terminal block for remote controller. A mistake of the sort could damage the entire system.

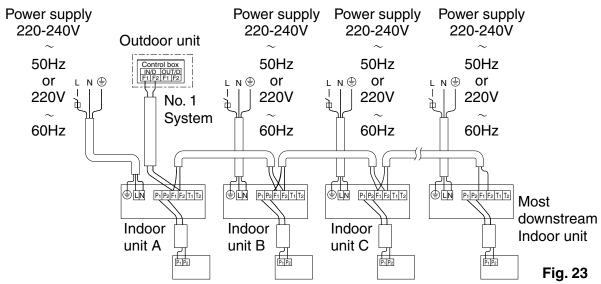
8-2 WIRING EXAMPLE

• Fit the power supply wiring of each unit with a switch and fuse as shown in the drawing.

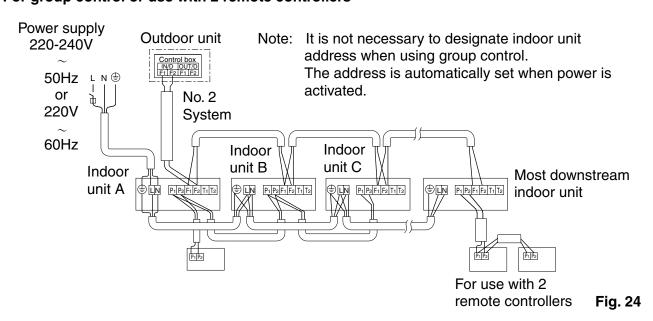
COMPLETE SYSTEM EXAMPLE (3 systems)



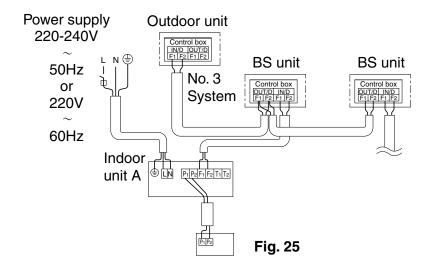
1. When using 1 remote controller for 1 indoor unit. (Normal operation)



2. For group control or use with 2 remote controllers



3. When including BS unit



[PRECAUTIONS]

- 1. A single switch can be used to supply power to units on the same system. However, branch switches and branch circuit breakers must be selected carefully.
- 2. Do not ground the equipment on gas pipes, water pipes or lightning rods, or crossground with telephones. Improper grounding could result in electric shock.

9. FIELD SETTINGS

- (1) Make sure the service lids are closed on the indoor and outdoor units.
- (2) Field settings must be made from the remote controller and in accordance with installation conditions.
- Settings can be made by changing the "Mode No.", "FIRST CODE NO." and "SECOND CODE NO.".
- The "Field Settings" included with the remote control lists the order of the settings and method of operation.

 *Setting is made in all units in a group. To set for individual indoor units or to check the setting, use the mode
 Nos. (with "2" in upper digit) in parentheses ().

9-1 SETTING AIR FILTER SIGN

- Remoto controllers are equiped with liquid crystal display air filter sighs to display the time to clean air filters.
- Change the SECOND CODE NO. according to Table 3 depending on the amount of dirt or dust in the room. (SECOND CODE NO. is factory set to "01" for air filter contamination-light)

Table 3

Setting	Spacing time of display air filter sign	Mode No.	FIRST CODE NO.	SECOND CODE NO.
Air filter contamination-light	Approx. 200 hrs	10 (20)		01
Air filter contamination-heavy	I Annroy 100 hrs I		U	02

9-2 SETTING AIR FLOWRATE INCREASE MODE

 It is possible to raise set air flow (HIGH and LOW) from the field. Change the SECOND CODE NO. as shown in Table 4 to suit your needs. (SECOND CODE NO. is factory set to "01" for Standard.)

Table 4

Setting	Mode No.	FIRST CODE NO.	SECOND CODE NO.
Standard		0	01
A little increase	13 (23)		02
Increase			03

(When using wireless remote controllers)

• When using wireless remote controllers, wireless remote controller address setting is necessary. Refer to the installation manual attached to the wireless remote controller for setting instructions.

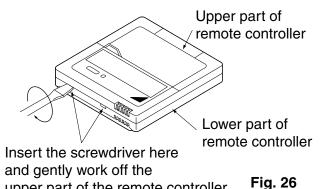
9-3 CONTROL BY 2 REMOTE CONTROLLERS (CONTROLLING 1 INDOOR UNIT BY 2 REMOTE CONTROLLERS)

• When using 2 remote controllers, one must be set to "MAIN" and the other to "SUB".

MAIN/SUB CHANGEOVER

(1) Insert a

screwdriver into the recess between the upper and lower part of remote controller and, working from the 2 positions, pry off the upper part. The remote controller PC board is attached to the upper part of the remote controller. (Refer to Fig. 26)



(2) Turn the main/sub changeover switch on one of the two remote controller PC boards to "S". (Leave the switch of the other remote controller set to "M".) (Refer to Fig. 27)

Wiring Method (See "7.ELECTRIC WIRING WORK")

- (3) Remove the service lid.
- (4) Add remote control 2 (slave) to the terminal block (6P) for remote controller (P₁, P₂) in the control box. (There is no polarity.) (Refer to Fig. 24 and section 7-3 for the wiring size.)

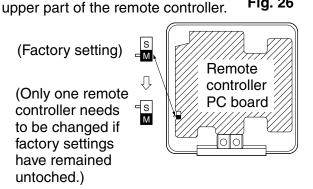


Fig. 27

9-4 COMPUTERISED CONTROL (FORCED OFF AND ON/OFF OPERATION)

- (1) Wire specifications and how to perform wiring
 - Connect the input from outside to terminals T1 and T2 of the terminal block (6P).

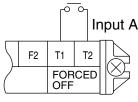


Fig. 28

Wire specification	Sheathed vinyl cord or cable (2 wire)
Gauge	0.75 - 1.25 mm ²
Length	Max. 100 m
External terminal	Contact that can ensure the minimum applicable load of 15V DC, 10 mA.

(2) Actuation

• The following table explains FORCED OFF and ON/OFF OPERATIONS in response to Input A.

FORCED OFF	ON/OFF OPERATION
Input "ON" stops operation (impossible by remote controllers).	Input OFF \rightarrow ON turns ON unit.
Input OFF enables control by remote controller.	Input ON \rightarrow OFF turns OFF unit.

(3) How to select FORCED OFF and ON/OFF OPERATION

- Turn the power on and then use the remote controller to select operation.
- Set the remote controller to the field set mode. For details, refer to the "HOW TO SET IN THE FIELD", in the remote controller manual.
- When in the field set mode, select mode No. 12, then set the first code (switch) No. to "1". Then set second code (position) No. to "01" for FORCED OFF and "02" for ON/ OFF OPERATION.

(FORCED OFF at factory set) (Refer to Fig. 29)

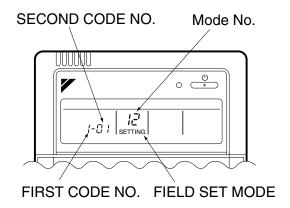


Fig. 29

9-5 CENTRALIZED CONTROL

• For centralized control, it is necessary to designate the group No. For details, refer to the manual of each optional controllers for centralized control.

10. TEST OPERATION

Make sure the service lids are closed on the indoor and outdoor units. Refer to the installation manual of the outdoor unit.

 The operation lamp of the remote controller will flash when an malfunction occurs. Check the malfunction code on the liquid crystal display to identify the point of trouble. An explanation of malfunction codes and the corresponding trouble is provided in "CAUTION FOR SERVICING" of the indoor unit.
 If any of the items in Table 5 are displayed, there may be a problem with the wiring or power, so check the wiring again.

Table 5

Remote controller display	Content
"Concentrated Management" is lit up	• There is a short circuit at the FORCED OFF terminals (T1, T2).
"U4" is lit up "UH" is lit up	 The power on the outdoor unit is off. The outdoor unit has not been wired for power supply. Incorrect wiring for the transmission wiring and/or FORCED OFF wiring. The branch wiring is cut.
No display	 The power on the indoor unit is off. The indoor unit has not been wired for power supply. Incorrect wiring for the remote controller wiring, the transmission wiring, and/or the FORCED OFF wiring. The remote controller wiring is cut.