

INSTALLATION AND OPERATION MANUAL

URI System air conditioners

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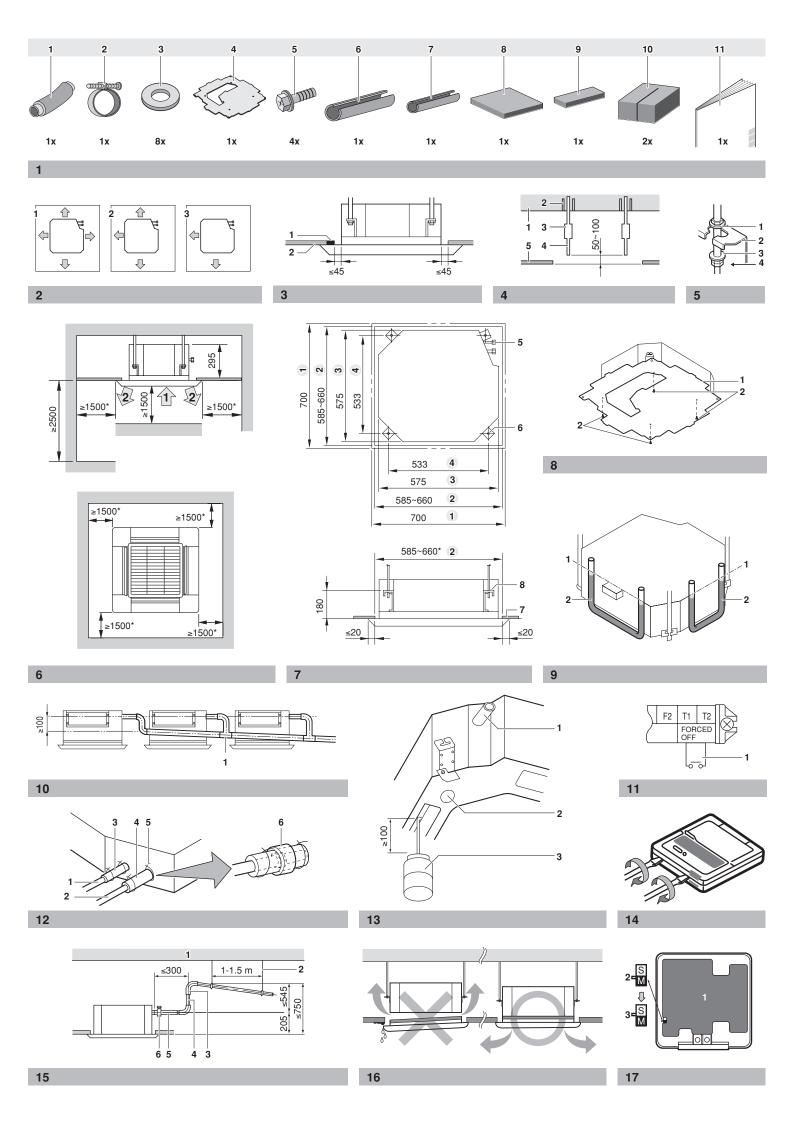
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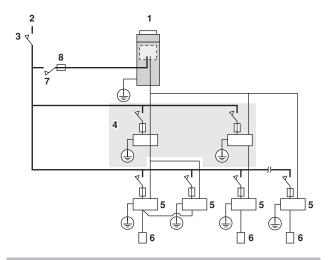
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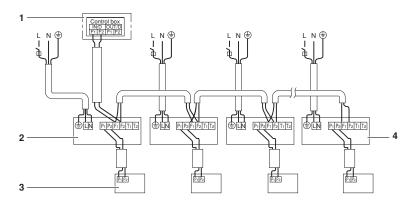
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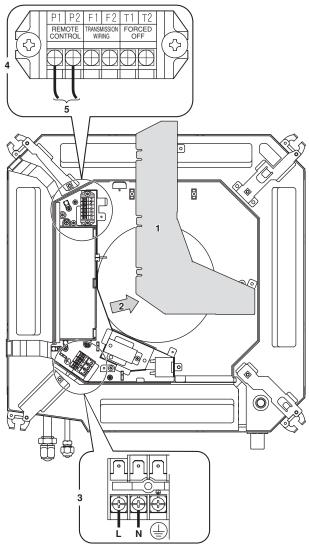
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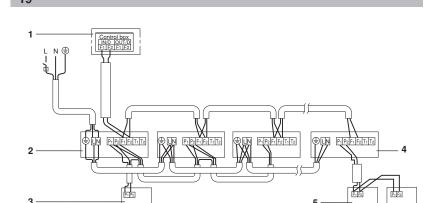
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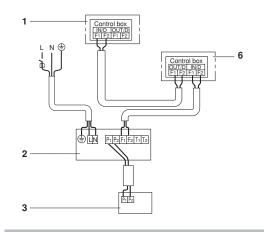


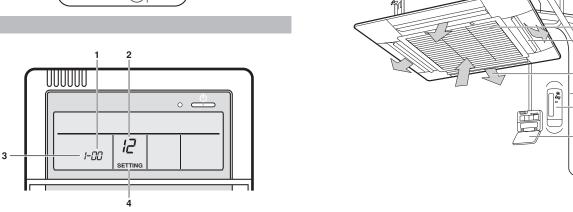












- DECLARATION-OF-CONFORMITY
- KONFORMITÄTSERKLÄRUNG
- DECLARATION-DE-CONFORMITE
- CONFORMITEITSVERKLARING ភូគុគុគុ

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

CE - ERKLÆRING OM-SAMSVAR CE - ILMOITUŞ-YHDENMUKAISUUDESTA CE - PROHLÁŠENI-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-CЪОТВЕТСТВИЕ

CE - ATTIKTIES-DEKLARACIJA CE - ATBILSTĪBAS-DEKLARĀCIJA CE - VYHLÁSENIE-ZHODY CE - UYUMLULUK-BİLDİRİSİ

Daikin Europe N.V.

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

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 Стойската sotto sua responsabilità che i condizionatori modello a cui è ritenta questa dichiarazione: 07 (68) бръйме це отожластялі тру suвбут фл. та цочтєль тых мицатотиких оцокацію ота отоїа окоферста п таройога брільот;

08 (P) declara sob sua exclusiva responsabilidade que os modelos de ar condicionado a que esta declaração se refere:

39 (по заявляет, исключительно под свою ответственность, что модели кондиционеров воздуха, к которым отнохится настоящее заявление: 10 (bx) erklærer under eneansvar, at klimaanlægmodellerne, som denne deklaration vedrører:

11 (S) deklarerar i egenskap av huvudansvarig, att luftkonditioneringsmodellerna som berörs av denna deklaration innebär att: 12 (n) erkiærer et fullstendig ansvar for at de luftkondisjoneringsmodeller som berøres av denne deklarasjon innebærer at:

14 @> prohlašuje ve své píh é odpovědnosti, že modely klimatizace, k nimž se toto prohlášení vztahuje: 15 @> izjavljuje pod isključivo vlastitom odgovomošču da su modeli klima uredaja na koje se ova izjava odnosi: 13 (Fin) ilmoittaa yksinomaan omalla vastuullaan, että tämän ilmoituksen tarkoittamat ilmastointilaitteiden mallit:

16 (H) teljes felelőssége tudatában kijelenti, hogy a klímaberendezés modellek, melyekre e nyilatkozat 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 (a) z vso odgovomostjo izjavlja, da so modeli klimatskih naprav, na katere se izjava nanaša:

21 (бо) декларира на своя отговорност, че моделите климатична инсталация, за които се отнася тази декларация: 22 (Ст) visika savo atsakom/be skelba, kad oro kondicionavino priedakų modeliai, kuriems yra taikoma ši deklaracija; 20 (ss) kinnitab oma täielikul vastutusel, et käesoleva deklaratsiooni alla kuuluvad kliimaseadmete mudelid:

24.®N vyhlasuje na vlastnú zodpovednosť, že tielo klimatizačné modely, na ktoré sa vzdaluje toto vyhlásenie: 25.® Em tamamen kandí socumkutýunda olmak úzare bu bildírním liglií odugu klima modellernín spagidakí gpi olduguru beyan eder. 23 🕟 ar pilnu atbildību apliecina, ka tālāk uzskaitīto modeļu gaisa kondicionētāji, uz kuriem attiecas šī deklarācija:

FXZQ15M9V1B*, FXZQ20M9V1B*, FXZQ25M9V1B*, FXZQ32M9V1B*, FXZQ40M9V1B*, FXZQ50M9V1B* , , 1, 2, 3, ..., 9

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

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

03 sont conformes à la/aux norme(s) ou autre(s) document(s) normatif (s), pour autant qu'ils soient utilisés conformément à nos instructions: 04 conform de volgende norm(en) of één of meer andere bindende documenten zijn, op voorwaarde dat ze worden gebruikt overeenkomstig onze instructies:

05 están en conformidad con la(s) siguiente(s) norma(s) u otro(s) documento(s) normativo(s), siempre que sean utilizados de acuerdo con nuestras instrucciones:

06 sono conformi 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 χρησιμοπαισύνται αήπφωνα 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:

20 on vastavuses järgmis(t)e standardi(te)ga või teiste normatiivsete dokumentidega, kui neid kasutatakse vastavalt meie juhenditele: 19 skladni z naslednjimi standardi in drugimi normativi, pod pogojem, da se uporabljajo v skladu z našimi navodili: 10 overholder lølgende standard(er) eller andet/andre retningsgivende dokument(er), forudsat at disse anvendes i henhold til vore 11 respektive utrustning är utförd i överensstämmelse med och följer följande standard(er) eller andra normgivande dokument, under instrukser:

18 sunt în conformitate ou următorul (următoarele) standard(e) sau alt(e) document(e) normativ(e), ou condiția ca acestea să fie utilizate în 17 spełniają wymogi następujących norm i innych dokumentów normalizacyjnych, pod warunkiem że używane są zgodnie z naszymi

conformitate cu instrucțiunile noastre

16 megfelelnek az alábbi szabvány(ok)nak vagy egyéb irányadó dokumentum(ok)nak, ha azokat előírás szerint használják:

21 съответстват на следните стандарти или други нормативни документи, при условие, че се използват съгласно нашите 22 attiinka žemiau nurodytus standartus ir (arba) kitus norminius dokumentus su sąlyga, 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 förutsättning att användning sker i överensstämmelse med våra instruktioner: 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: mukaisesti:

13 vastaavat seuraavien standardien ja muiden ohjeellisten dokumenttien vaatimuksia edellyttäen, että niitä käytetään ohjeidemme

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

24 sú v zhode s nasledovnou(ými) normou(ami) alebo iným(í) normatívnym(í) dokumentom(ami), za predpokladu, že sa používajú v súlade

23.tad. ja lietoti atbilstoši ražotāja norādījumiem, atbilst sekojošiem standartiem un citiem normatīviem dokumentiem:

* Electromagnetic Compatibility 2004/108/EC Machinery 2006/42/EC

> 22 laikantis nuostatų, pateikiamų: 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: 07 με τήρηση των διατάξεων των: 05 siguiendo las disposiciones de:

08 de acordo com o previsto em:

06 secondo le prescrizioni per:

21 следвайки клаузите на:

19 ob upoštevanju določb:

10 under iagttagelse af bestemmelserne i:

12 gitt i henhold til bestemmelsene i:

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

02 gemäß den Vorschriften der:

01 following the provisions of:

EN60335-2-40.

11 enligt villkoren i

13 noudattaen määräyksiä:

14 za dodržení ustanovení předpisu:

15 prema odredbama:

16 követi a(z):

20 vastavalt nõuetele:

18 Directivelor, cu amendamentele respective 12 Direktiver, med foretatte endringer 15 Smjernice, kako je izmijenjeno. 17 z późniejszymi poprawkami. 14 v platném znění 07 Οδηγιών, όπως έχουν τροποποιηθεί. 03 Directives, telles que modifiées.
04 Richtlinen, zoals geamendeerd.
05 Directivas, según lo enmendado.
06 Directiva, come da modifica. 08 Directivas, conforme alteração em. 09 Директив со всеми поправками. 02 Direktiven, gemäß Änderung.

25 Değiştirilmiş halleriyle Yönetmelikler. 21 Директиви, с техните изменения. 23 Direktīvās un to papildinājumos. 20 Direktiivid koos muudatustega. 22 Direktyvose su papildymais. 24 Smernice, v platnom znení. Direktiivejä, sellaisina kuin ne ovat muutettuina. 16 irányelv(ek) és módosításaik rendelkezéseit. 11 Direktiv, med företagna ändringar.

DAIKIN.TCF.022G8/01-2011

Ą ę

> ako bolo uvedené v <A> a pozitívne zistené v <A> da belirtildiği gibi ve <C> Sertifikasına

24 Poznámka*

Piezīmes *

33

súlade s osvedčením <C>.

vērtējumam saskanā ar sertifikātu <C>.

kaip nustatyta <A> ir kaip teigiamai nuspręsta kā norādīts <A> un atbilstoši pozitīvajam

22 Pastaba *

Сертификата <С>.

pagal Sertifikata <C>.

както е изложено в <А> и оценено положително от <В> сътгасно

21 Забележка *

TÜV (NB1856)

0305020101

ပွဲ

olarak

tarafından olumlu

ô

göre

* ₽

22

(iidetud järgi vastavalt sertifikaadile <C>.

strane prema Certifikatu <C>

5

som anført i <A> og positivt vurderet af i henhold til Certifikat <C>.

10 Bemærk *

positivamente por **** de acuerdo con el Certificado <C>. como se establece en <A> y es valorado

Свидетельству <С>.

как указано в <**A>** и в соответствии с положительным решением <**B>** согласно

, примечание

değerlendirildiği gibi.

19 Direktive z vsemi spremembami.

10 Direktiver, med senere ændringer.

01 Directives, as amended.

16 Megjegyzés* a(z) <A> alapján, a(z) igazolta a megfelelést, zgodnie z dokumentacją <A>, pozytywną opinią kot je določeno v </br> aşa cum este stabilit în <A> şi apreciat pozitiv nagu on näidatud dokumendis <A> ja heaks de în conformitate cu Certificatul <C> a(z) <C> tanúsítvány szerint. skladu s certifikatom <C>. | Świadectwem <C>. 17 Uwaga* 19 Opomba 20 Märkus 18 Notă* jak bylo uvedeno v <A> a pozitívně zjištěno v jotka on esitetty asiakirjassa < A> ja jotka < B> on kako je izloženo u <A> i pozitivno ocijenjeno od som det fremkommer i «A» og gjennom positiv bedømmelse av ifølge Sertifikat <C>. ηγνäksy πyt Sertifikaatin <C> mukaisesti. enligt <A> och godkänts av enligt souladu s osvědčením <C>. Certifikatet <C>. 11 Information * 14 Poznámka* Napomena *

13 Huom* 12 Merk*

> από το **** σύμφωνα με το **Πιστοποιητικό <C>**. tal como estabelecido em <A> e com o parecer positivo de de acordo com o Certificado <C>.

όπως καθορίζεται στο <Α> και κρίνεται θετικά

ον Σημείωση

Nota *

8 8

tel que défini dans < A> et évalué positivement par zoals vermeld in <A> en positief beoordeeld door

Remarque ' 02 Hinweis*

ខ 2 8

Bemerk *

Nota *

 conformément au Certificat <C>. overeenkomstig Certificaat <C>.

delineato nel <A> e giudicato positivamente

Nota *

9

as set out in <A> and judged positively by wie in der <A> aufgeführt und von positiv

Note*

5

according to the Certificate <C>. beurteilt gemäß Zertifikat <C>.

da secondo il Certificato <C>.

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 Dakin Europe N.V. je ovalsten za zradu Datokke o tehnickoj konstrukciji.
 A Dakin Europe N.V. je opsakt a műszaki konstrukciós okurmentáció összeállitására.
 The Dakin Europe N.V. na upovazherie do zhierana i opracowywana dokurmentacji konstruki.
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Jean-Pierre Beuselinck

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 Spoločnost Daikin Europe N.V. je oprámenta vytvorif súbor technickej konštrukcie.
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 Daikin Europe N. V. on dibladu boospara ehrifist sokumentaiskoni.
 Daikin Europe N. V. on oropyarapea pa cscrasa Arra sa resevecka evorgryque.
 Daikin Europe N. V. yra igaliola sudaryti šį lechninės konstrukcijos falią.

Zandvoordestraat 300, B-8400 Oostende, Belgium

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 Davin Europe N.V. hat die Berechtigung die Technische Konstruktionsakle zusammenzustellen.
 Dakin Europe N.V. sat authoris à compiler le Dossier de Construction Technique.
 Davin Europe N.V. is bevogd om her Technisch Construction Technique.
 Davin Europe N.V. set autorizado a compiler et Dischivo de Construction Technica.
 Davin Europe N.V. est autorizado a compiler et Activio de Construction Technica.
 Davin Europe N.V. è autorizzata a redigere il File Tecnico di Costruzione.

Daikin Europe N.V. är bemyndigade att sammanställa den tekniska konstruktionsfilen. Daikin Europe N.V. har tillatelse til å kompilere den Tekniske konstruksjonsfilen.

Ostend, 1st of March 2011 General Manager

3PW56205-4A



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

IMPROPER INSTALLATION OR ATTACHMENT OF EQUIPMENT OR ACCESSORIES COULD RESULT IN ELECTRIC SHOCK, SHORT-CIRCUIT, LEAKS, FIRE OR OTHER DAMAGE TO THE EQUIPMENT. BE SURE ONLY TO USE ACCESSORIES MADE BY DAIKIN WHICH ARE SPECIFICALLY DESIGNED FOR USE WITH THE EQUIPMENT AND HAVE THEM INSTALLED BY A PROFESSIONAL.

IF UNSURE OF INSTALLATION PROCEDURES OR USE, ALWAYS CONTACT YOUR DAIKIN DEALER FOR ADVICE AND INFORMATION.

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

BEFORE INSTALLATION

- When moving the unit while removing it from the carton box, be sure to lift it by holding on to the four lifting lugs without exerting any pressure on other parts, especially on the swing flap, the refrigerant piping, drain piping, and other resin parts.
- Leave the unit inside its packaging until you reach the installation site. Where unpacking is unavoidable, use a sling of soft material or protective plates together with a rope when lifting, this to avoid damage or scratches to the unit.
- Especially, do not unfasten the packing case (top) guarding the switch box until suspending the unit.
- Refer to the installation manual of the outdoor unit for items not described in this manual.
- Caution concerning refrigerant series R410A:
 The connectable outdoor units must be designed exclusively for R410A.
- Do not place objects in direct proximity of the outdoor unit and do not let leaves and other debris accumulate around the unit. Leaves are a hotbed for small animals which can enter the unit. Once in the unit, such animals can cause malfunctions, smoke or fire when making contact with electrical parts.

Precautions

- This appliance is not intended for use by persons, including children, with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
 - Children should be supervised to ensure that they do not play with the appliance.
- Do not install or operate the unit in rooms mentioned below.
 - Places with mineral oil, or filled with oil vapour or spray like in kitchens. (Plastic parts may deteriorate.)
 - Where corrosive gas like sulphurous gas exists. (Copper tubing and brazed spots may corrode.)
 - · Where volatile flammable gas like thinner or gasoline is used.
 - Where machines generating electromagnetic waves exist. (Control system may malfunction.)
 - Where the air contains high levels of salt such as air near the ocean and where voltage fluctuates a lot (e.g. in factories). Also in vehicles or vessels.
 - The equipment is not intended for use in a potentially explosive atmosphere.
- When selecting the installation site, use the supplied paper pattern for installation.
- Do not install accessories on the casing directly. Drilling holes in the casing may damage electrical wires and consequently cause fire.

Accessories

Check if the following accessories are included with your unit.

See figure 1

- 1 Drain hose
- 2 Metal clamp
- 3 Washer for hanger bracket
- 5 Srews (M5) for paper pattern for installation

Paper pattern for installation

- 6 Insulation for gas pipe fitting
- 7 Insulation for liquid pipe fitting
- 8 Large sealing pad
- 9 Small sealing pad
- 10 Sealing material
- 11 Installation and operation manual

Optional accessories

- There are two types of remote controllers: wired and wireless. Select a remote controller according to customers request and install in an appropriate place.
 - Refer to catalogues and technical literature for selecting a suitable remote controller.
- A decoration panel is also required for this indoor unit.

For the following items, take special care during construction and check after installation is finished

Tick ✓ when checked	
	ls the indoor unit fixed firmly? The unit may drop, vibrate or make noise.
	ls 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 components may burn out.
	Are wiring and piping correct? The unit may malfunction or components may burn out.
	ls the unit safely grounded? Dangerous at electric leakage.
	Is the wiring size according to specifications? The unit may malfunction or components may burn out.
	Is nothing 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 might not be clear.

Notes to the installer

- Read this manual carefully to ensure correct installation. Be sure to instruct the customer how to properly operate the system and show him/her the enclosed operation manual.
- Explain to the customer what system is installed on the site. Be sure to fill out the appropriate installation specifications in the chapter "What to do before operation" of the outdoor unit operation manual.

IMPORTANT INFORMATION REGARDING THE **REFRIGERANT USED**

This product contains fluorinated greenhouse gases covered by the Kvoto Protocol.

Refrigerant type: R410A GWP⁽¹⁾ value: 1975

(1) GWP = global warming potential

Periodical inspections for refrigerant leaks may be required depending on European or local legislation. Please contact your local dealer for more information.

SELECTING INSTALLATION SITE

When the conditions in the ceiling are exceeding 30°C and a relative humidity of 80%, or when fresh air is inducted into the ceiling, an additional insulation is required (minimum 10 mm thickness, polyethylene foam).

For this unit you can select different air flow directions. It is necessary to purchase an optional blocking pad kit to discharge the air in 2 or 3 directions.

- Select an installation site where the following conditions are fulfilled and that meets your customer's approval.
 - Where optimum air distribution can be ensured.
 - Where nothing blocks air passage.
 - Where condensate water can be properly drained.
 - Where the false ceiling is not noticeably on an incline.

- Where sufficient clearance for maintenance and service can be ensured
- Where piping between indoor and outdoor units is possible within the allowable limit. (Refer to the installation manual of the outdoor
- This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
- Keep indoor unit, outdoor unit, power supply wiring and transmission wiring at least 1 meter away from televisions and radios. This is to prevent image interference and noise in those electrical appliances.

(Noise may be generated depending on the conditions under which the electric wave is generated, even if 1 meter is kept.)

Ceiling height

Install this unit where the height of bottom panel is more than 2.5 m so that the user cannot easily touch.

Air flow directions

Select the air flow directions best suited to the room and point of installation. (For air discharge in 2 or 3 directions, it is necessary to make field settings by means of the remote controller and to close the air outlet(s). Refer to the installation manual of the optional blocking pad kit and to the chapter "Field setting" on page 7.) (See figure 2 (= air flow direction))

- Air discharge in 4 directions 1
- 2 Air discharge in 3 directions
- વ Air discharge in 2 directions
- Use suspension bolts for installation. Check whether the ceiling is strong enough to support the weight of the indoor unit. If there is a risk, reinforce the ceiling before installing the unit.

(The installation pitch is marked on the paper pattern for installation. Refer to it to check for points requiring reinforcing.) Space required for installation see figure 6 (= air flow direction)

- Air inlet
- 2 Air outlet

NOTE

Leave 200 mm or more space where marked with * on sides where the air outlet is closed.

PREPARATIONS BEFORE INSTALLATION

- Relation of ceiling opening to unit and suspension bolt position. (See figure 7)
 - Decoration panel dimensions
 - 2 Ceiling opening dimensions
 - 3 Indoor unit dimensions
 - Suspension bolt pitch dimensions 4
 - 5 Refrigerant piping
 - 6 Suspension bolt (x4)
 - 7 False ceiling
 - Hanger bracket

NOTE



Installation is possible with a ceiling opening dimension of 660 mm (marked with *). However, to achieve a ceiling-panel overlapping dimension of 20 mm, the spacing between the ceiling and the unit should be 45 mm or less. If the spacing between ceiling and the unit is over 45 mm, attach sealing material in the part marked or recover the ceiling.

(See figure 3)

- 1 Sealing material
- 2 False ceiling

Make the ceiling opening needed for installation where applicable. (For existing ceilings.)

- Refer to the paper pattern for installation for the ceiling opening
- Create the ceiling opening required for installation. From the side of the opening to the casing outlet, implement the refrigerant and drain piping and wiring for remote controller (unnecessary for wireless type) and indoor-outdoor unit wiring. Refer to each piping or wiring section.
- After making an opening in the ceiling, it may be necessary to reinforce ceiling beams to keep the ceiling level and to prevent it from vibrating. Consult the builder for details.

Install the suspension bolts. (use either a M8 or M10 size bolt.)

Use anchors for existing ceilings, and a sunken insert, sunken anchors or other field supplied parts for new ceilings to reinforce the ceiling in order to bear the weight of the unit. Adjust clearance from the ceiling before proceeding further.

Installation example see figure 4.

- Ceiling slab
- 2 Anchor
- 3 Long nut or turn-buckle
- 4 Suspension bolt
- 5 False ceiling

NOTE

All the above parts are field supplied.



For other installation than standard installation, contact your Daikin dealer for details.

INDOOR UNIT INSTALLATION

When installing optional accessories, read also the installation manual of the optional accessories. Depending on the field conditions, it may be easier to install optional accessories before the indoor unit is installed (except for the decoration panel). However, for existing ceilings, install fresh air inlet component kit and branch duct before installing the unit.

Install the indoor unit temporarily.

Attach the hanger bracket to the suspension bolt. Be sure to fix it securely by using a nut and washer from the upper and lower sides of the hanger bracket.

Securing the hanger bracket see figure 5.

- Nut (field supply) 1
- 2 Hanger bracket
- 3 Washer (supplied with the unit)
- Tighten with double nuts (field supply)

Fix the paper pattern for installation. (For new ceilings only.)

- The paper pattern for installation corresponds with the measurements of the ceiling opening. Consult the builder for details.
- The centre of the ceiling opening is indicated on the paper pattern for installation. The centre of the unit is indicated on the paper pattern for installation.
- After removing the packaging material from the paper pattern for installation, attach the paper pattern for installation to the unit with the supplied screws as shown in figure 8.
 - Paper pattern for installation (supplied with the unit)
 - 2 Screws (supplied with the unit)

Adjust the unit to the right position for installation.

(Refer to the chapter "Preparations before installation" on page 2.)

Check if the unit is horizontally levelled.

malfunction and cause water to drip.)

- Do not install the unit tilted. The indoor unit is equipped with a built-in drain pump and float switch. (If the unit is tilted against condensate flow, the float switch may
- Check if the unit is levelled at all four corners with a water level or a water-filled vinyl tube as shown in figure 9.
 - Water level
 - 2 Vinyl tube
- Remove the paper pattern for installation. (For new ceilings

REFRIGERANT PIPING WORK



All field piping must be provided by a licensed refrigeration technician and must comply with the relevant local and national codes.

- For refrigerant piping of outdoor unit, refer to the installation manual supplied with the outdoor unit.
- Execute heat insulation work completely on both sides of the gas piping and the liquid piping. Otherwise, this can sometimes result in water leakage.

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

- Also, in cases where the temperature and humidity of the refrigerant piping sections might exceed 30°C or RH 80%, reinforce the refrigerant insulation (20 mm or thicker). Condensation may form on the surface of the insulating
- Before rigging tubes, check which type of refrigerant is used.
- Use a pipe cutter and flare suitable for the used refrigerant.
- Apply ether oil or ester oil around the flare portions before connecting.
- To prevent dust, moisture or other foreign matter from infiltrating the tube, either pinch the end, or cover it with tape.
- Use copper alloy seamless pipes (ISO 1337).
- The outdoor unit is charged with refrigerant.
- Be sure to use both a spanner and torque wrench together when connecting or disconnecting pipes to/from the unit.
 - Torque wrench
 - 2 Spanner
 - 3 Piping union
 - Flare nut



- Do not mix anything other than the specified refrigerant, such as air, etc.., inside the refrigerant circuit.
- Refer to the table below for the dimensions of flare nuts and the appropriate tightening torque. (Overtightening may damage the flare and cause leaks.)

Pipe gauge	Tightening torque	Flare dimension A (mm)	Flare shape
Ø6.4	14.2~17.2 N•m (144~176 kgf•cm)	8.7~9.1	90°±2
Ø12.7	49.5~60.3 N•m (504~616 kgf•cm)	16.2~16.6	R0.4~0.8

NOTE

Not recommended but in case of emergency.

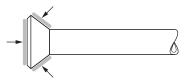
You must use a torque wrench but if you are obliged to install the unit without a torque wrench, you may follow the installation method mentioned below.

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 within the angle shown below:

Pipe size	Further Recommen ize tightening angle length o		
Ø6.4 (1/4")	60~90°	±150 mm	
Ø12.7 (1/2")	30~60°	±250 mm	

When connecting the flare nut, coat the flare both inside and outside with refrigerating ether or ester oil and initially tighten by hand 3 or 4 turns before tightening firmly. Coat here with ether oil or ester oil



- Check the pipe connector for gas leaks, then insulate it as shown in figure 12.
 - Liquid pipe
 - 2 Gas pipe
 - 3 Insulation for fitting of liquid line (supplied with the unit)
 - 4 Insulation for fitting of gas line (supplied with the unit)
 - 5 Clamps (use 2 clamps per insulation)
 - 6 Small sealing pad (supplied with the unit)
- Wrap the sealing pad only around the insulation for the joints on the gas piping side.

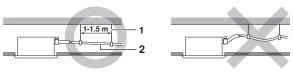


Be sure to insulate any field piping all the way to the piping connection inside the unit. Any exposed piping may cause condensation or burns if touched.

- If the refrigerant gas leaks during the work, ventilate the area. A toxic gas is emitted by the refrigerant gas being exposed to a fire.
- Finally make sure there is no refrigerant gas leak. A toxic gas may be released by the refrigerant gas leaking indoor and being exposed to flames from an area heater, cooking stove, etc.

DRAIN PIPING WORK

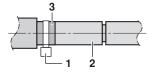
Rig the drain piping as shown in figure and take measures against condensation. Improperly rigged piping could lead to leaks and eventually wet furniture and belongings.



- 1 Hanging bar
- 2 ≥1/100 gradient

Install the drain pipes.

- Keep piping as short as possible and slope it downwards so that air may not remain trapped inside the pipe.
- Keep pipe size equal to or greater than that of the connecting pipe (PVC pipe, nominal diameter 20 mm, outside diameter 26 mm).
- Insert the drain hose into the drain socket up to the base, and tighten the clamp securely within the portion of a grey tape.
- Tighten the clamp until the screw head is less than 4 mm from the hose.
 - Metal clamp (supplied with the unit)
 - 2 Drain hose (supplied with the unit)
 - 3 Grey tape (field supply)



- · Insulate the drain hose inside the building.
- If the drain hose cannot be sufficiently set on a slope, fit the hose with drain raising piping (field supply).
- Make sure that heat insulation work is executed on the following 2 spots to prevent any possible water leakage due to dew condensation.
 - · Indoor drain pipe
 - · Drain socket
- Wrap the supplied sealing pad over the clamp and drain hose to insulate.
 - Metal clamp (supplied with the unit)
 - 2 Large sealing pad (supplied with the unit)



How to perform piping (See figure 15)

- Ceiling slab
- 2 Hanger bracket
- 3 Drain raising pipe
- 4 Raising section
- 5 Drain hose (supplied with the unit)
- 6 Metal clamp (supplied with the unit)

Precautions

- Install the drain raising pipes at a height of less than 545 mm.
- Install the drain raising pipes at a right angle to the indoor unit and no more than 300 mm from the unit.



- The incline of attached drain hose should be 75 mm or less so that the drain socket does not have to stand additional force.
- To ensure a downward slope of 1:100, install hanging bars every 1 to 1.5 m.
- If unifying multiple drain pipes, install the pipes as shown in figure 10. Select converging drain pipes whose gauge is suitable for the operating capacity of the unit.
 - T-joint converging drain pipes

- After piping work is finished, check if drainage flows smoothly.
 - Open the water inlet lid, add approximately 21 of water gradually and check the drainage flow. Method of adding water. See figure 13.
 - 1 Drain pipe
 - 2 Service drain outlet with rubber plug. Use this outlet to drain water from the drain pan.
 - 3 Plastic container for pouring



- 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.

When electric wiring work is finished

Check drainage flow during COOL running, explained in the chapter "Test operation" on page 8.

When electric wiring work is not finished

Remove the switch box lid and connect the power supply and remote controller to the terminals.

See figure 22.

- Switch box lid
- 2 Remove the switch box lid (take off 2 screws)
- 3 Power supply terminal block
- 4 Remote controller terminal block
- 5 Remote controller wiring
- Next, press the inspection/test operation button on the remote controller. The unit will engage the test operation mode. Press the operation mode selector button selecting fan operation the indoor unit fan and drain pump will start up. Check that the water has drained from the unit. Press to go back to the first mode.
- Note that the fan also starts rotating.
- Attach the switch box lid as before.

ELECTRIC WIRING WORK

General instructions

- All field supplied parts and materials and electric works must conform to local codes.
- Use copper wire only.
- Follow the "Wiring diagram" attached to the unit body to wire the outdoor unit, indoor units and the remote controller. For details on hooking up the remote controller, refer to the "Installation manual of the remote controller".
- All wiring must be performed by an authorized electrician.
- A circuit breaker capable of shutting down power supply to the entire system must be installed.

Note that the operation will restart automatically if the main power supply is turned off and then turned back on again.

- 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.
- Refer to the installation manual attached to the outdoor unit for the size of power supply electric wire 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 lightning storms.

Electrical characteristics

		Units			wer oply	Fan n	notor
Model	Hz	Volts	Voltage range	MCA	MFA	kW	FLA
FXZQ15			240 ≤264 ≥198	0.8	15	0.055	0.6
FXZQ20				0.8	15	0.055	0.6
FXZQ25	50	220-240		0.8	15	0.055	0.6
FXZQ32	30	220-240		0.8	15	0.055	0.6
FXZQ40				0.8	15	0.055	0.6
FXZQ50				0.9	15	0.055	0.7

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

NOTE

For details, refer to "Electrical data".



Specifications for field supplied fuses and wire

	Power supply wiring			Remote controller wiring and Transmission wiring		
Model	Field fuses	Wire	Size, length	Wire	Size	
FXZQ15						
FXZQ20			Wire size			
FXZQ25	16 A	HOE/V/ LISC	and length must	Sheathed wire	0.75~1.25 mm ²	
FXZQ32	10 A	H05VV-U3G	comply with local	(2 wire)	0.75~1.25 mm=	
FXZQ40			codes.			
FXZQ50						

NOTE

- For details, refer to the chapter "Wiring example" on page 7.
- Allowable length of transmission wiring between indoor and outdoor units, and between the indoor unit and the remote controller is as follows:
 - Outdoor unit indoor unit: ≤1000 m (total wiring length: 2000 m)
 - Indoor unit remote controller: ≤500 m

WIRING EXAMPLE AND HOW TO SET THE REMOTE CONTROLLER

How to connect wiring (See figure 25)

■ Power supply wiring and ground wire

Remove the switch box lid and connect wires of matching number to the power supply terminal block (3P) inside. (See E). And connect the ground wire to the terminal block. In doing this, pull the wires inside through the hole and fix the wires securely with a field supplied clamp. (See B).

Give enough slack to the wires between the clamp and power supply terminal block.

Transmission wiring and remote controller wiring.

Remove the switch box lid and pull the wires inside through the hole and connect to the terminal block for remote controller (6P). (See C and A). (No polarity) Securely fix the remote controller cord with a field supplied clamp.

Give enough slack to the wires between the clamp and the terminal block for the remote controller.

- After connection, attach sealing material. (See D).
- Be sure to attach it to prevent the infiltration of water from the outside. (See D).
 - A Remote controller and transmission wiring
 - B Power supply wiring
 - C How to connect power supply terminal block (6P) for remote controller and transmission wiring
 - D Be sure to attach delivered sealing material to prevent the infiltration of water as well as any insects and other small creatures from the outside. Otherwise a short-circuit may occur inside the switch box.
 - E How to connect terminal block with ground wire (3P)
 - Switch box lid
 - 2 Wiring diagram label (on the backside of the switch box lid)
 - 3 Remote controller wiring
 - 4 Transmission wiring
 - 5 Terminal block for remote controller (6P)
 - 6 Power supply wiring
 - 7 Power supply terminal block
 - 8 Clamp (field supply)
 - 9 Clamp (field supply)
 - 10 Clamp material
 - 11 Sealing material (supplied with the unit)
 - 12 Wiring to outside
 - 13 Outside
 - 14 Inside
 - 15 Be sure to clamp the wire sheath. After securing the clamp to the clamp material, cut off any extra material.

Precautions

- 1 Observe the notes mentioned below when wiring to the power supply board.
 - 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 the figure.







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 1.31 N•m±10%)

- 2 Keep total current of crossover wiring between indoor units less than 12 A. Branch the line outside the terminal board of the unit in accordance with electrical equipment standards, when using two power wiring of a gauge greater than 2 mm² (Ø1.6).
 - The branch must be sheathed in order to provide an equal or greater degree of insulation as power supply wiring itself.
- 3 Do not connect wires of different gauge to the same grounding terminal. Looseness in the connection may deteriorate the protection.
- 4 Remote controller cords and wires connecting the units should be located at least 50 mm away from power supply wiring. Not following this guideline may result in malfunction due to electrical noise.
- 5 For the remote controller wiring, refer to the "Installation manual of the remote controller" supplied with the remote controller.
- 6 Never connect the power supply wiring to the terminal board for transmission wiring. This mistake could damage the entire system.
- 7 Use only specified wires and tightly connect wires to the terminals. Be careful that wires do not place external stress on the terminals. Keep wiring in neat order so that they do not obstruct other equipment such as popping open the service cover. Make sure the cover closes tight. Incomplete connections could result in overheating, and in the worse case, electric shock or fire.

WIRING EXAMPLE

- Fit the power supply wiring of each unit with a switch and fuse as shown in figure 18.
 - 1 Outdoor unit
 - 2 Power supply
 - 3 Main switch
 - 4 BS unit (only for heat recovery system)
 - 5 Indoor unit
 - 6 Remote controller
 - 7 Switch
 - 8 Fuse

Power supply wiring

Transmission and remote controller wiring

Complete system example (3 systems)

- See figures 19, 20 and 21.
 - Outdoor unit
 - 2 Indoor unit
 - 3 Remote controller (Optional accessories)
 - 4 Most downstream indoor unit
 - 5 For use with 2 remote controllers
 - 6 BS unit

When using 1 remote controller for 1 indoor unit. (Normal operation.) (See figure 19).

For group control or use with 2 remote controllers (See figure 20).

When including BS unit (See figure 21).



It is not necessary to designate indoor unit address when using group control. The address is automatically set when power is activated.

Precautions

- 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.
- For a group control remote controller, choose the remote controller that suits the indoor unit which has the most functions.
- Do not ground the equipment on gas pipes, water pipes, lightning rods or crossground with telephones. Improper grounding could result in electric shock.

FIELD SETTING

Field setting must be made on the remote controller in function of the installation condition.

- Setting can be made by changing the "Mode number", "First code No." and "Second code No.".
- For setting and operation, refer to the "Field settings" in the installation manual of the remote controller.

Summary of field settings

Mode	First			Second code No. (Note 2)					
No. (Note 1)	code No.	Description of s	setting		01		02	03	04
		Filter contamination - Heavy/Light = Setting to define time between 2 filter	Ultra-long- life filter		±10,000 hrs.		±5,000 hrs.		
	0	cleaning display indications. (When contamination is high, setting can be	Long-life filter	Light	±2,500 hrs.	Heavy	±1,250 hrs.	_	-
		changed to half the time inbetween 2 filter cleaning display indications.)	Standard filter		±200 hrs.		±100 hrs.		
	1	Long-life filter type Change the setting when ultra- long-life filter is installed. This setting is important for time between 2 filter cleaning display indications (refer to 10-0-0X).		Loi	ng-life filter	Ultra-long-life filter		_	_
10 (20)	2	Thermostat sensor selection		uni ren ins the cor ser	e both the t sensor (or note sensor if talled) AND remote ntroller nsor. ee note 5+6)	onl ser ins	e unit sensor y (or remote nsor if talled). ee note 5+6)	Use remote controller sensor only. (See note 5+6)	
	3	Setting for display of between 2 filter clear indications		Dis	splay	Do	not display	_	_
	5	Information to I-man	mation to I-manager,		ly unit sensor ue (or remote nsor value if talled).	Sensor value as set by 10-2-0X or 10-6-0X.		_	_
	6	Thermostat sensor in group control		onl ser ins	unit sensor in see unit sensor if remote sensor if stalled), see note 6) Use both the unit senor (or remote sensor if installed) AND the remote controller sensor. (See note 445-6)		_	_	
	0	Output signal X1-X2 optional KRP1B PCE			ermostat-on+ mpressor run	_		Operation	Mal- function
	1	ON/OFF input from outside (T1/T2 input) = Setting when forced ON/OFF is to be operated from outside.			rced OFF	ON/OFF operation		_	_
12	2	Thermostat differential changeover = Setting when remote sensor is used.		1°0		0.5°C		_	ı
(22)	3	Fan setting during thermostat OFF at heating operation		LL		Set speed		OFF (See note 3)	-
	4	Differential automatic changeover		0°0		1°C		2°C	3°C (See note 7)
	5	Auto-restart after power failure		Dis	abled	Enabled		_	_
	9	Fixed cool/heat mast	ter	Dis	abled	Enabled		_	_
	0	Setting for air outlet velocity This setting is to be changed in function of ceiling height.		≤2.	7 m	>2.7 ≤3.0 m		>3.0 ≤3.5 m	_
13 (23)	1	Selection for air flow direction This setting is to be changed when blocking pad optional kit is used.		4-v	way flow	3-way flow		2-way flow	-
	4	Airflow direction rang This setting is to be a when range of swing movement needs to changed.	changed flap be	Upper		Normal		Lower	_
	5	Setting for adjustment speed (phase control		Sta	andard	Ор	tion 1	Option 2	
15 (25)	3	Drain pump operatio humidifier interlock			uipped		t equipped	_	_
Note 1:	e 1: Setting is carried out in the group mode, however, if the mode number inside parentheses is selected, indeed units can also be set individually.								

Note 1: Setting is carried out in the group mode, nowever, if the mode number inside parentheses is selected, indoor units can also be set individually.

Note 2: Factory settings of the Second code No. are marked in grey backgrounds.

Note 3: Only use in combination with optional remote sensor or when setting 10-2-03 is used.

Note 3: Only use in combination with optional remote sensor or when setting 10-2-03 is used.

Note 4: If group control is selected and remocon sensor is to be used, then set 10-6-02 & 10-2-03.

Note 5: If setting 10-6-02 + 10-2-01 or 10-2-02 or 10-2-03 are set at the same time, then setting 10-2-01,

10-2-02 or 10-2-03 have priority.

10-2-03 in 10-2-03 have priority.

10-2-03 are set at the same time, then setting for group connection, 10-6-01 has priority and for individual connection, 10-2-01, 10-2-02 or 10-2-03 have

Note 7: More settings for Differential automatic change over temperatures are:

Second code No. 05 06

05 4°C 06 5°C 07 6°C

08 7°C

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

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

- Insert a wedge-head screwdriver into the recess between the upper and lower part of the remote controller and, working from the 2 positions, pry off the upper part. (See figure 14)
 (The remote controller PC board is attached to the upper part of the remote controller.)
- Turn the main/sub changeover switch on one of the two remote controller PC boards to "S". (See figure 17) (Leave the switch of the other remote controller set to "M".)
 - Remote controller PC board
 - 2 Factory setting
 - 3 Only one remote controller needs to be changed

Computerised control (forced off and on/off operation)

- 1. Wire specifications and how to perform wiring.
 - Connect input from outside to terminals T1 and T2 of the terminal board (remote controller to transmission wiring).

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

See figure 11

1 Input A

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	input off → on: turns on the unit (impossible by remote controllers)
Input "off" enables control	input on → off: turns off the unit (by remote controller)

- 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 chapter "How to set in the field", in the manual of the remote controller.
 - 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 to "02" for on/off operation. (forced off at factory set.) (See figure 23)
 - Second code No.
 - 2 Mode No.
 - 3 First code No.
 - 4 Field set mode

Centralized control

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

INSTALLATION OF THE DECORATION PANEL

Read the chapter "Test operation" on page 8 before making a test run without attaching the decoration panel.

Refer to the installation manual delivered with the decoration panel.

After installing the decoration panel, ensure that there is no space between the unit body and decoration panel. Otherwise air may leak through the gap and cause dewdrop. (See figure 16)

TEST OPERATION

Refer to the installation manual of the outdoor unit.

■ The operation lamp of the remote controller will blink when an error occurs. Check the error code on the liquid crystal display to identify the trouble. An explanation of error codes and the corresponding trouble are provided on "Caution for servicing" of the outdoor unit.

If any of the items in the table below are displayed, there may be a problem with the wiring or power, so check the wiring again.

Remote control display	Content
"Concentrated Management" is lit up	■ There is a short circuit at the FORCED OFF terminals (T1, T2)
"UЧ" 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.
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.

MAINTENANCE

IMPORTANT

- ONLY A QUALIFIED SERVICE PERSON IS ALLOWED TO PERFORM MAINTENANCE.
- BEFORE OBTAINING ACCESS TO TERMINAL DEVICES, ALL POWER SUPPLY CIRCUITS MUST BE INTERRUPTED.
- DO NOT USE WATER OR AIR OF 50°C OR HIGHER FOR CLEANING AIR FILTERS AND OUTSIDE PANELS.
- WHEN CLEANING THE HEAT EXCHANGER, BE SURE TO REMOVE THE SWITCHBOX, FAN MOTOR AND DRAIN PUMP. WATER OR DETERGENT MAY DETERIORATE INSULATION OF ELECTRIC COMPONENTS AND RESULT IN BURN-OUT OF THESE COMPONENTS.

See figure 24

- 1 Indoor unit
- 2 Drain pumping out device (built-in) Drain water removed from the room during cooling.
- Power supply wiring 3
- 4 Drain pipe
- 5 Suction grille
- 6 Air filter (inside suction grille)
- 7 Model name label (inside suction grille)
- 8 Air flow flap (at air outlet)
- 9 Refrigerant pipe
- 10 Transmission wiring
- 11 Air outlet
- 12 Grounding wire Conducts electricity from the unit into the ground to prevent electric shock.
- 13 Remote controller

How to clean the air filter

Clean the air filter when the display shows " (TIME TO CLEAN AIR FILTER).

Increase the frequency of cleaning if the unit is installed in a room where the air is extremely contaminated.

(As a yardstick for yourself, consider cleaning the filter once a half

If dirt becomes impossible to clean, change the air filter. (Air filter for exchange is optional.)

Open the suction grill.

Push both knobs simultaneously and carefully lower the grille. (Identical procedure for closing.) (See figure 26)

Remove the air filters.

Pull the hook of the air filter out diagonally downward and remove the filter. (See figure 27)

Clean the air filter.

Use a vacuum cleaner or wash the air filter with water. When the air filter is very dirty, use a soft brush and neutral detergent.





Remove water and dry in the shade.

Fix the air filter.

Attach the air filter to the suction grill by hanging it to the projected portion above the suction grill.

Press the bottom of the air filter against the projections on the bottom of the grille to snap the air filter into its place. (See figure 28)

Shut the air inlet grill. Refer to item No. 1.

After turning power on, press the FILTER SIGN RESET button. The "TIME TO CLEAN AIR FILTER" display disappears. (For details, refer to the operation manual of the outdoor unit.)

NOTE

Do not remove the air filter except when cleaning. Unnecessary handling may damage the filter.

How to clean the air outlet and outside panels

- Clean with a soft cloth.
- When it is difficult to remove stains, use water or neutral detergent.
- When the blade is extremely contaminated, remove it as below and clean it.

NOTE



- Do not use gasoline, benzene, thinner, polishing powder nor liquid insecticide. It may cause discolouring or warping.
- Do not let the indoor unit get wet. It may cause electric shock or fire.

How to clean the suction grill

Open the suction grill.

Push both knobs simultaneously and carefully lower the grille. (Identical procedure for closing.) (See figure 26)

Detach the suction grill.

Open the suction grill 45 degrees and lift it upward. (See figure 29)

Detach the air filter.

See the figure in item No. 2 in chapter "How to clean the air filter" on page 9.

Clean the suction grill.

Wash it with a soft brush and neutral detergent, and dry thoroughly.



NOTE



When the suction grill is very dirty, use a typical kitchen cleaner and let it sit for about 10 minutes. Than, wash it with water.

Fix the air filter.

See the figure in item No. 4 in chapter "How to clean the air filter" on page 9.

Re-attach the suction grill. See item No. 2.

Close the suction grill.

See item No. 1.

DISPOSAL REQUIREMENTS

Dismantling of the unit, treatment of the refrigerant, of oil and of other parts must be done in accordance with relevant local and national legislation.

WIRING DIAGRAM

	: FIELD WIRING : TERMINAL : CONNECTOR	BLK BLU GRN ORG	: BLACK : BLUE : GREEN : ORANGE			
A1P	PRINTED CIRCUIT BOARD					
C1	CAPACITOR (FAN MOTOR)					
F1U	FUSE (250 V/5 A)					
F2U	FIELD FUSE					
HAP	LIGHT EMITTING DIODE (SER	VICE MON	ITOR - GREEN)			
KPR	MAGNETIC RELAY (DRAIN PUI	MP)				
M1F	MOTOR (INDOOR FAN)					
M1P	MOTOR (DRAIN PUMP)					
M1S	MOTOR (SWING FLAP)					
Q1DI	FIELD EARTH LEAK DETECTO	R				
Q1M	THERMO SWITCH (M1F EMBE	DDED)				
R1T	THERMISTOR (AIR)					
R2T,R3T	THERMISTOR (COIL)					
S1L	FLOAT SWITCH					
T1R	TRANSFORMER (220-240 V/22	V)				
V1TR	PHASE CONTROL CIRCUIT					
X1M,X2M	TERMINAL STRIP					
Y1E	ELECTRONIC EXPANSION CIP	CUIT				
WIRED REMOT	E CONTROLLER					
R1T	THERMISTOR (AIR)					
SS1	SELECTOR SWITCH (MAIN/SU	B)				
RECEIVER/DIS	PLAY UNIT (ATTACHED TO WIREL	ESS REMO	TE CONTROLLER)			
A3P,A4P	PRINTED CIRCUIT BOARD					
BS1	ON/OFF BUTTON					
H1P	LIGHT EMITTING DIODE (SER	VICE MON	ITOR - RED)			
H2P	LIGHT EMITTING DIODE (SER	VICE MON	ITOR - GREEN)			
H3P	LIGHT EMITTING DIODE (SERVICE MONITOR - RED)					
H4P	LIGHT EMITTING DIODE (SERVICE MONITOR - ORANGE)					
SS1	SELECTOR SWITCH (MAIN/SU	B)				
SS2	S2SELECTOR SWITCH (WIRELESS ADDRESS SET)					
CONNECTOR F	OR OPTIONAL PARTS					
X16A	CONNECTOR (ADAPTOR FOR	WIRING)				

X18ACONNECTOR (ADAPTOR FOR ELECTRICAL APPENDICES)

PNK

RED

WHT

YLW

: PINK

: RED

: WHITE

:YELLOW

RECEIVER/DISPLAY UNIT

WIRED REMOTE CONTROLLER

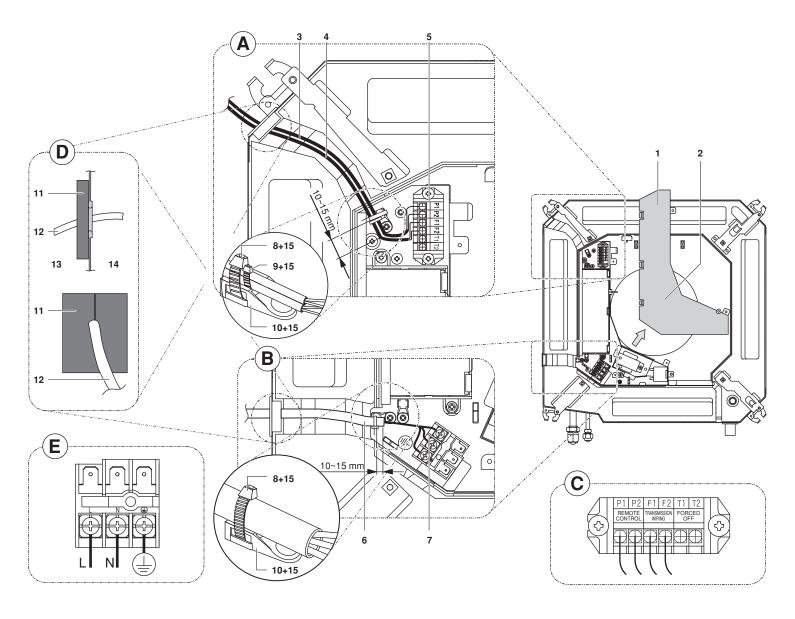
SWITCH BOX INPUT FROM OUTSIDE

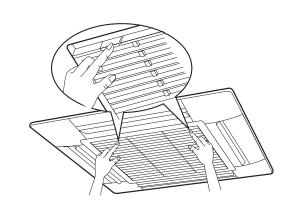
TRANSMISSION WIRING

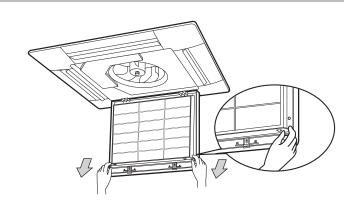
CENTRAL REMOTE CONTROLLER

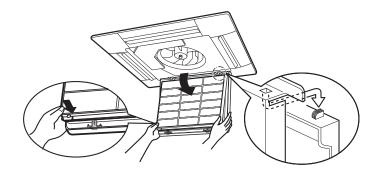
NOTE

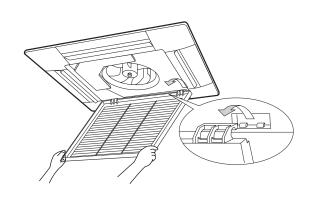
- WHEN USING THE CENTRAL REMOTE CONTROLLER, SEE MANUAL FOR CONNECTION TO THE UNIT.
- X23A IS CONNECTED WHEN THE CENTRAL REMOTE CONTROLLER IS USED.
- WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY THE REMOTE CONTROLLER. SEE INSTALLATION MANUAL FOR MORE DETAILS.
- REMOTE CONTROLLER VARIES ACCORDING TO THE COMBINATION SYSTEM. SEE TECHNICAL DATA AND CATALOGS, ETC., BEFORE CONNECTING.











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