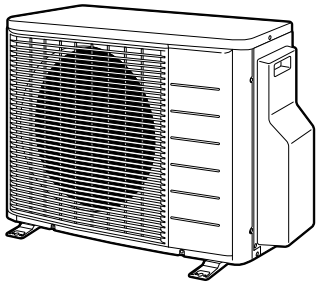
DAIKIN

INSTALLATION MANUAL

R410A Split Series



Models
2MXS40H3V1B2
2MXS50H3V1B2
2AMX40G3V1B2
2AMX50G3V1B2

Installation manual R410A Split series	**English**
Installationsanleitung Split-Baureihe R410A	**Deutsch**
Manuel d'installation Série split R410A	**Français**
Montagehandleiding R410A Split-systeem	**Nederlands**
Manual de instalación Serie Split R410A	**Español**
Manuale d'installazione Serie Multiambienti R410A	**Italiano**
Εγχειρίδιο εγκατάστασης διαιρούμενης σειράς R410A	**Ελληνικά**
Manual de Instalação Série split R410A	**Portugues**
Руководство по монтажу Серия R410A с раздельной установкой	**Русский**
Montaj kılavuzları R410A Split serisi	**Türkçe**

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 - ЗАЯВЛЕНИЕ-О-СООТВЕТСТВИИ
CE - OVERENSSTEMMELSESERKLÆRING
CE - FÖRSÄKRAN-OM-ÖVERENSTÄMMELSE
CE - ERKLÆRING OM-SAMSVAR
CE - ILMOITUS-YHDENMUKAISUUDESTA
CE - PROHLÁŠENÍ-O-SHODĚ
CE - IZJAVA-O-USKLAĐENOSTI
CE - MEGFELELŐSÉGI-NYILATKOZAT
CE - DEKLARACJA-ZGODNOŚCI
CE - DECLARAŢIE-DE-CONFORMITATE
CE - IZJAVA O SKLADNOSTI
CE - VASTAVUSDEKLARATSIOON
CE - ДЕКЛАРАЦИЯ-ЗА-СЪОТВЕТСТВИЕ
CE - ATITIKTIES-DEKLARACIJA
CE - ATBILSTĪBAS-DEKLARĀCIJA
CE - VYHLÁSENIE-ZHODY
CE - UYGUNLUK-BEYANI

Daikin Industries Czech Republic s.r.o.

01 (GB) declares under its sole responsibility that the air conditioning models to which this declaration relates:
02 (D) erklärt auf seine alleinige Verantwortung daß die Modelle der Klimageräte für die diese Erklärung bestimmt ist:
03 (F) déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclaration:
04 (NL) verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft:
05 (E) declara baja su única responsabilidad que los modelos de aire acondicionado a los cuales hace referencia la declaración:
06 (I) dichiara sotto sua responsabilità che i condizionatori modello a cui è riferita questa dichiarazione:
07 (GR) δηλώνει με αποκλειστική της ευθύνη ότι τα μοντέλα των κλιματιστικών συσκευών στα οποία αναφέρεται η παρούσα δήλωση:
08 (P) declara sob sua exclusiva responsabilidade que os modelos de ar condicionado a que esta declaração se refere:
09 (RUS) заявляет, исключительно под свою ответственность, что модели кондиционеров воздуха, к которым относится настоящее заявление:
10 (DK) 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) erklærer et fullstendig ansvar for at de luftkondisjoneringsmodeller som berøres av denne deklarasjon, innebærer at:
13 (FIN) ilmoittaa yksinomaan omalla vastuullaan, että tämän ilmoituksen tarkoittamat ilmastointilaitteiden mallit:
14 (CZ) prohlašuje ve své plné odpovědnosti, že modely klimatizace, k nimž se toto prohlášení vztahuje:
15 (HR) izjavljuje pod isključivo vlastitom odgovornošću da su modeli klima uređaja na koje se ova izjava odnosi:
16 (H) teljes felelősségе 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 condiţionat la care se referă această declaraţie:
19 (SLO) z vso odgovornostjo izjavlja, da so modeli klimatskih naprav, na katere se izjava nanaša:
20 (EST) kinnitab oma täielikul vastutusel, et käesoleva deklaratsiooni alla kuuluvad kliimaseadmete mudelid:
21 (BG) декларира на своя отговорност, че моделите климатична инсталация, за които се отнася тази декларация:
22 (LT) visiška savo atsakomybe skelbia, kad oro kondicionavimo prietaisų modeliai, kuriems yra taikoma ši deklaracija:
23 (LV) ar pilnu atbildību apliecina, ka tāliāk uzskaitīto modeļu gaisa kondicionētāji, uz kuriem attiecas šī deklarācija:
24 (SK) vyhlasuje na vlastnú zodpovednosť, že tieto klimatizačné modely, na ktoré sa vzťahuje toto vyhlásenie:
25 (TR) tamamen kendi sorumluluğunda olmak üzere bu bildirinin ilgili olduğu klima modellerinin aşağıdaki gibi olduğunu beyan eder:

2MXS40H3V1B2, 2AMX40G3V1B2, 2MXS50H3V1B2, 2AMX50G3V1B2, 3MXS40K3V1B2, 3MXS52E4V1B2, 3AMX52E4V1B2, 3MXS68G3V1B2, 4MXS68F3V1B2, 4MXS80E3V3B2, 5MXS90E3V3B2,

01 are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our instructions:
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 nostre istruzioni:
07 είναι σύμφωνα με το(α) ακόλουθο(α) πρότυπο(α) ή άλλο έγγραφο(α) κανονισμών, υπό την προϋπόθεση ότι χρησιμοποιούνται σύμφωνα με τις οδηγίες μας:
08 estão em conformidade com a(s) seguinte(s) norma(s) ou outro(s) documento(s) normativo(s), desde que estes sejam utilizados de acordo com as nossas instruções:
09 соответствуют следующим стандартам или другим нормативным документам, при условии их использования согласно нашим инструкциям:
10 overholder følgende standard(er) eller andet/andre retningsgivende dokument(er), forudsat at disse anvendes i henhold til vore instrukser:
11 respektive utrustning är utförd i överensstämmelse med och följer följande standard(er) eller andra normgivande dokument, under förutsättning att användning sker i överensstämmelse med våra instruktioner:
12 respektive utstyr er i overensstemmelse med følgende standard(er) eller andre normgivende dokument(er), under forutsetning av at disse brukes i henhold til våre instrukser:
13 vastaavat seuraavien standardien ja muiden ohjeellisten dokumenttien vaatimuksia edellyttäen, että niitä käytetään ohjeidemme mukaisesti:
14 za předpokladu, že jsou využívány v souladu s našimi pokyny, odpovídají následujícím normám nebo normativním dokumentům:
15 u skladu sa slijedećim standardom(ima) ili drugim normativnim dokumentom(ima), uz uvjet da se oni koriste u skladu s našim uputama:
16 megfelelnek az alábbi szabvány(ok)nak vagy egyéb irányadó dokumentum(ok)nak, ha azokat előírás szerint használják:
17 spełniają wymogi następujących norm i innych dokumentów normalizacyjnych, pod warunkiem że używane są zgodnie z naszymi instrukcjami:
18 sunt în conformitate cu următorul (următoarele) standard(e) sau alt(e) document(e) normativ(e), cu condiţia ca acestea să fie utilizate în conformitate cu instrucţiunile noastre:
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(te)ga või teiste normatiivsete dokumentidega, kui neid kasutatakse vastavalt meie juhenditele:
21 съответстват на следните стандарти или други нормативни документи, при условие, че се използват съгласно нашите инструкции:
22 atitinka žemiau nurodytus standartus ir (arba) kitus norminius dokumentus su sąlyga, kad yra naudojami pagal mūsų nurodymus:
23 tad, ja lietoti atbilstoši ražotāja norādījumiem, atbilst sekojošiem standartiem un citiem normatīviem dokumentiem:
24 sú v zhode s nasledovnou(ými) normou(ami) alebo iným(i) normatívnym(i) dokumentom(ami), za predpokladu, že sa používajú v súlade s našim návodom:
25 ürünün, talimatlarımıza göre kullanılması koşuluyla aşağıdaki standartlar ve norm belirten belgelerle uyumludur:

EN60335-2-40,

01 following the provisions of:
02 gemäß den Vorschriften der:
03 conformément aux stipulations des:
04 overeenkomstig de bepalingen van:
05 siguiendo las disposiciones de:
06 secondo le prescrizioni per:
07 με τήρηση των διατάξεων των:
08 de acordo com o previsto em:
09 в соответствии с положениями:
10 under iagttagelse af bestemmelserne i:
11 enligt villkoren i:
12 gitt i henhold til bestemmelsene i:
13 noudattaen määräyksiä:
14 za dodržení ustanovení předpisu:
15 prema odredbama:
16 követi a(z):
17 zgodnie z postanowieniami Dyrektyw:
18 în urma prevederilor:
19 ob upoštevanju določb:
20 vastavalt nõuetele:
21 следвайки клаузите на:
22 laikantis nuostatų, pateikiamų:
23 ievērojot prasības, kas noteiktas:
24 održiavajúc ustanovenia:
25 bunun koşullanna uygun olarak:

Low Voltage 2006/95/EC
Machinery 2006/42/EC **
Electromagnetic Compatibility 2004/108/EC *

01 Directives, as amended.
02 Direktiven, gemäß Änderung.
03 Directives, telles que modifiées.
04 Richtlijnen, zoals geamendeerd.
05 Directivas, según lo enmendado.
06 Direttive, come da modifica.
07 Οδηγιών, όπως έχουν τροποποιηθεί.
08 Directivas, conforme alteração em.
09 Директив со всеми поправками.
10 Direktiver, med senere ændringer.
11 Direktiv, med företagna ändringar.
12 Direktiver, med foretatte endringer.
13 Direktiivejä, sellaisina kuin ne ovat muutettuina.
14 v platném znění.
15 Smjernice, kako je izmijenjeno.
16 irányelv(ek) és módosításaik rendelkezéseit.
17 z późniejszymi poprawkami.
18 Directivelor, cu amendamentele respective.
19 Direktive z vsemi spremembami.
20 Direktiivid koos muudatustega.
21 Директиви, с техните изменения.
22 Direktyvose su papildymais.
23 Direktīvās un to papildinājumos.
24 Smernice, v platnom znení.
25 Değiştirilmiş halleriyle Yönetmelikler.

01 Note * as set out in <A> and judged positively by <B> according to the **Certificate <C>**.
02 Hinweis * wie in <A> aufgeführt und von <B> positiv beurteilt gemäß **Zertifikat <C>**.
03 Remarque * tel que défini dans <A> et évalué positivement par <B> conformément au **Certificat <C>**.
04 Bemerk * zoals vermeld in <A> en positief beoordeeld door <B> overeenkomstig **Certificaat <C>**.
05 Nota * como se establece en <A> y es valorado positivamente por <B> de acuerdo con el **Certificado <C>**.
06 Nota * delineato nel <A> e giudicato positivamente da <B> secondo il **Certificato <C>**.
07 Σημείωση * όπως καθορίζεται στο <A> και κρίνεται θετικά από το <B> σύμφωνα με το **Πιστοποιητικό <C>**.
08 Nota * tal como estabelecido em <A> e com o parecer positivo de <B> de acordo com o **Certificado <C>**.
09 Примечание * как указано в <A> и в соответствии с положительным решением <B> согласно **Свидетельству <C>**.
10 Bemærk * som anført i <A> og positivt vurderet af <B> i henhold til **Certifikat <C>**.
11 Information * enligt <A> och godkänts av <B> enligt **Certifikatet <C>**.
12 Merk * som det fremkommer i <A> og gjennom positiv bedømmelse av <B> ifølge **Sertifikat <C>**.
13 Huom * jotka on esitetty asiakirjassa <A> ja jotka <B> on hyväksynyt **Sertifikaatin <C>** mukaisesti.
14 Poznámka * jak bylo uvedeno v <A> a pozitivně zjištěno <B> v souladu s **osvědčením <C>**.
15 Napomena * kako je izloženo u <A> i pozitivno ocijenjeno od strane <B> prema **Certifikatu <C>**.
16 Megjegyzés * a(z) <A> alapján, a(z) <B> igazolta a megfelelést, a(z) <C> **tanúsítvány** szerint.
17 Uwaga * zgodnie z dokumentacją <A>, pozytywną opinią <B> i **Świadectwem <C>**.
18 Notă * aşa cum este stabilit în <A> şi apreciat pozitiv de <B> în conformitate cu **Certificatul <C>**.
19 Opomba * kot je določeno v <A> in odobreno s strani <B> v skladu s **certifikatom <C>**.
20 Märkus * nagu on näidatud dokumendis <A> ja heaks kiidetud <B> järgi vastavalt **sertifikaadile <C>**.
21 Забележка * както е изложено в <A> и оценено положително от <B> съгласно **Сертификата <C>**.
22 Pastaba * kaip nustatyta <A> ir kaip teigiamai nuspręsta <B> pagal **Sertifikatą <C>**.
23 Piezīmes * kā norādīts <A> un atbilstoši <B> pozitīvajam vērtējumam saskaņā ar **sertifikātu <C>**.
24 Poznámka * ako bolo uvedené v <A> a pozitívne zistené <B> v súlade s **osvedčením <C>**.
25 Not * <A>'da belirtildiği gibi ve <C> **Sertifikasına** göre <B> tarafından olumlu olarak değerlendirildiği gibi.

<A>	DAIKIN.TCF.015R9/01-2015
<B>	DEKRA (NB0344)
<C>	74736-KRQ/EMC97-4957

01 ** DICz*** is authorised to compile the Technical Construction File.
02 ** DICz*** hat die Berechtigung die Technische Konstruktionsakte zusammenzustellen.
03 ** DICz*** est autorisé à compiler le Dossier de Construction Technique.
04 ** DICz*** is bevoegd om het Technisch Constructiedossier samen te stellen.
05 ** DICz*** está autorizado a compilar el Archivo de Construcción Técnica.
06 ** DICz*** è autorizzata a redigere il File Tecnico di Costruzione.
07 ** Η DICz*** είναι εξουσιοδοτημένη να συντάξει τον Τεχνικό φάκελο κατασκευής.
08 ** A DICz*** está autorizada a compilar a documentação técnica de fabrico.
09 ** Компания DICz*** уполномочена составить Комплект технической документации.
10 ** DICz*** er autoriseret til at udarbejde de tekniske konstruktionsdata.
11 ** DICz*** är bemyndigade att sammanställa den tekniska konstruktionsfilen.
12 ** DICz*** har tillatelse til å kompilere den Tekniske konstruksjonsfilen.
13 ** DICz*** on valtuutettu laatimaan Teknisen asiakirjan.
14 ** Společnost DICz*** má oprávnění ke kompilaci souboru technické konstrukce.
15 ** DICz*** je ovlašten za izradu Datoteke o tehničkoj konstrukciji.
16 ** A DICz*** jogosult a műszaki konstrukciós dokumentáció összeállítására.
17 ** DICz*** ma upoważnienie do zbierania i opracowywania dokumentacji konstrukcyjnej.
18 ** DICz*** este autorizat să compileze Dosarul tehnic de construcţie.
19 ** DICz*** je pooblaščen za sestavo datoteke s tehnično mapo.
20 ** DICz*** on volitatud koostama tehnilist dokumentatsiooni.
21 ** DICz*** е оторизирана да състави Акта за техническа конструкция.
22 ** DICz*** yra įgaliota sudaryti šį techninės konstrukcijos failą.
23 ** DICz*** ir autorizēts sastādīt tehnisko dokumentāciju.
24 ** Spoločnosť DICz*** je oprávnená vytvoriť súbor technickej konštrukcie.
25 ** DICz*** Teknik Yapı Dosyasını derlemeye yetkilidir.

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

3P400875-1

DAIKIN

Tetsuya Baba
Managing Director
Pilsen, 2nd of January 2015

DAIKIN INDUSTRIES CZECH REPUBLIC s.r.o.
U Nové Hospody 1/1155, 301 00 Plzeň Skvrňany,
Czech Republic

01 Addendum to instructions delivered with the equipment:
The English text is the original instruction. Other languages are translations of the original instructions.

02 Ergänzung zu den mit der Ausrüstung gelieferten Instruktionen:
Bei der englischen Textfassung handelt es sich um das Original. Bei den Anleitungen in anderen Sprachen handelt es sich um Übersetzungen des Originals.

03 Addendum aux instructions fournies avec l équipement:
Le texte anglais correspond aux instructions d origine. Les autres langues sont les traductions des instructions d origine.

04 Bijvoegsel voor bij de apparatuur geleverde instructies:
De Engelse tekst is de oorspronkelijke versie. Andere talen zijn vertalingen van de oorspronkelijke instructies.

05 Anexo a las instrucciones suministradas con el equipo:
El texto en inglés constituye las instrucciones originales. El resto de los idiomas son traducciones de las instrucciones originales.

06 Aggiunta alle istruzioni in dotazione con l apparecchio:
Il testo in inglese corrisponde alle istruzioni originali. Le altre lingue sono traduzioni delle istruzioni originali.

07 Παράρτημα οδηγιών που παρέχονται με τον εξοπλισμό:
Το αγγλικό κείμενο είναι οι πρωτότυπες οδηγίες. Οι άλλες γλώσσες είναι μεταφράσεις των πρωτότυπων οδηγιών.

08 Adenda às instruções fornecidas com o equipamento:
As instruções foram redigidas originalmente em inglês. As versões noutras línguas são traduções da redacção original.

09 Дополнение к инструкциям, прилагаемым к оборудованию:
Оригиналом инструкции является текст на английском языке. Текст на других языках является переводом с оригинала.

10 Tillæg til vejledningen leveret sammen med dette udstyr:
Vejledningens originalsprog er engelsk. Andre sprog er oversættelser af den originale vejledning.

11 Tillägg till instruktionerna som medföljde utrustningen:
Den engelska texten är originalinstruktionerna. Övriga språk är översättningar av originalinstruktionerna.

12 Tillegg til instruksjoner som følger med utstyret:
Den engelske teksten inneholder originalinstruksjonene. Andre språk er oversettelser av originalinstruksjonene.

13 Lisäys laitteiston mukana toimitettuihin ohjeisiin:
Englanninkielinen teksti on alkuperäinen ohje. Muut kielet ovat alkuperäisten ohjeiden käännöksiä.

14 Dodatek k pokynům dodávaným k zařízení:
Originální návod je v angličtině. Ostatní jazyky jsou překladem originálního návodu.

15 Dodatak uputama isporučenim s opremom:
Engleski tekst je originalna uputa. Ostali jezici su prijevodi originalne upute.

16 Kiegészítés a berendezéshez mellékelt útmutatóhoz:
Az útmutató eredeti szövege az angol nyelvű szöveg. A többi nyelvű változat az útmutató eredeti szövegének a fordítása.

17 Uzupełnienie informacji odnośnie instrukcji dostarczanych z urządzeniem:
Oryginał instrukcji opracowano w języku angielskim. Instrukcje w pozostałych językach są tłumaczeniami instrukcji oryginalnej.

18 Anexă la instrucţiunile livrate cu echipamentul:
Textul în limba engleză este instrucţiunea originală. Celelalte limbi sunt traducerile instrucţiunilor originale.

19 Dodatek k navodilom, priložen opremi:
Izvorni jezik teh navodil je angleščina. Navodila v drugih jezikih so prevodi navodil v izvornem jeziku.

20 Lisa varustusega koos tarnitud juhenditele:
Ingliskeelne tekst on originaaljuhend. Teised keeled on originaaljuhendite tõlked.

21 Допълнение към инструкциите, предоставени с оборудването:
Текстът на английски език е оригиналната инструкция. Текстовете на останалите езици са преводи на оригиналните инструкции.

22 Priedas prie instrukcijų, pristatytų su įranga:
Angliškas tekstas yra originali instrukcija. Tekstai kitomis kalbomis yra šios instrukcijos originalo vertimas.

23 Papildinājums kopā ar iekārtām piegādātajām instrukcijām:
Oriģinālā instrukcija ir teksts angļu valodā. Teksti pārējās valodās ir oriģinālo instrukciju tulkojumi.

24 Doplnok k pokynom dodaným spolu so zariadením:
Originálny návod je v angličtine. Ostatné jazyky sú preklady originálneho návodu.

25 Ekipman ile birlikte verilen talimatlara ek:
İngilizce metin asıl talimattır. Diğer diller asıl talimatların çevirileridir.

Safety Precautions

- The precautions described herein are classified as WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.
- Meaning of WARNING and CAUTION notices

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

⚠ CAUTION ..... Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

- The safety marks shown in this manual have the following meanings:

Be sure to follow the instructions.	Be sure to establish an earth connection.	Never attempt.

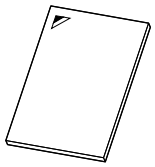
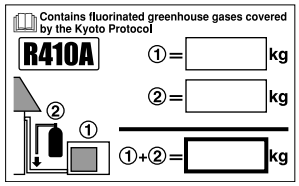
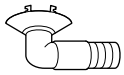
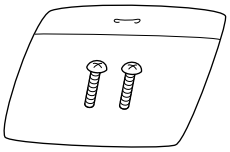
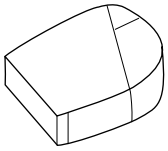
- After completing installation, conduct a trial operation to check for faults and explain to the customer how to operate the air conditioner and take care of it with the aid of the operation manual.

⚠ WARNING
• Ask your dealer or qualified personnel to carry out installation work. Do not attempt to install the air conditioner yourself. Improper installation may result in water leakage, electric shocks or fire.
• Install the air conditioner in accordance with the instructions in this installation manual. Improper installation may result in water leakage, electric shocks or fire.
• Be sure to use only the specified accessories and parts for installation work. Failure to use the specified parts may result in the unit falling, water leakage, electric shocks or fire.
• Install the air conditioner on a foundation strong enough to withstand the weight of the unit. A foundation of insufficient strength may result in the equipment falling and causing injury.
• Electrical work must be performed in accordance with relevant local and national regulations and with instructions in this installation manual. Be sure to use a dedicated power supply circuit only. Insufficiency of power circuit capacity and improper workmanship may result in electric shocks or fire.
• Use a cable of suitable length. Do not use tapped wires or an extension lead, as this may cause overheating, electric shocks or fire.
• Make sure that all wiring is secured, the specified wires are used, and that there is no strain on the terminal connections or wires. Improper connections or securing of wires may result in abnormal heat build-up or fire.
• When wiring the power supply and connecting the wiring between the indoor and outdoor units, position the wires so that the control box lid can be securely fastened. Improper positioning of the control box lid may result in electric shocks, fire or over heating terminals.
• If refrigerant gas leaks during installation, ventilate the area immediately. Toxic gas may be produced if the refrigerant comes into contact with fire.
• After completing installation, check for refrigerant gas leakage. Toxic gas may be produced if the refrigerant gas leaks into the room and comes into contact with a source of fire, such as a fan heater, stove or cooker.
• When installing or relocating the air conditioner, be sure to bleed the refrigerant circuit to ensure it is free of air, and use only the specified refrigerant (R410A). The presence of air or other foreign matter in the refrigerant circuit causes abnormal pressure rise, which may result in equipment damage and even injury.
• During installation, attach the refrigerant piping securely before running the compressor. If the refrigerant pipes are not attached and the stop valve is open when the compressor is run, air will be sucked in, causing abnormal pressure in the refrigeration cycle, which may result in equipment damage and even injury.
• During pump-down, stop the compressor before removing the refrigerant piping. If the compressor is still running and the stop valve is open during pump-down, air will be sucked in when the refrigerant piping is removed, causing abnormal pressure in the refrigeration cycle, which may result in equipment damage and even injury.
• Be sure to earth the air conditioner. Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shocks.
• Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks or fire.

⚠ CAUTION
• Do not install the air conditioner at any place where there is a danger of flammable gas leakage. In the event of a gas leakage, build-up of gas near the air conditioner may cause a fire to break out.
• While following the instructions in this installation manual, install drain piping to ensure proper drainage and insulate piping to prevent condensation. Improper drain piping may result in indoor water leakage and property damage.
• Tighten the flare nut according to the specified method such as with a torque wrench. If the flare nut is too tight, it may crack after prolonged use, causing refrigerant leakage.
• Make sure to provide for adequate measures in order to prevent that the outdoor unit be used as a shelter by small animals. Small animals making contact with electrical parts can cause malfunctions, smoke or fire. Please instruct the customer to keep the area around the unit clean.
• Sound pressure level is less than 70dB(A).

Accessories

Accessories supplied with the outdoor unit:

Ⓐ Installation Manual  It is on the bottom of the packing case.	1	Ⓑ Refrigerant charge label  It is on the bottom of the packing case.	1
Ⓒ Drain plug  It is on the bottom of the packing case.	1	Ⓓ Multilingual fluorinated greenhouse gases label It is on the bottom of the packing case.	1
Ⓔ Screw bag (for fixing the wire retainer)  It is on the bottom of the packing case.	1	Ⓕ Reducer assembly (only 50 class)  It is on the bottom of the packing case.	1

Precautions for Selecting the Location

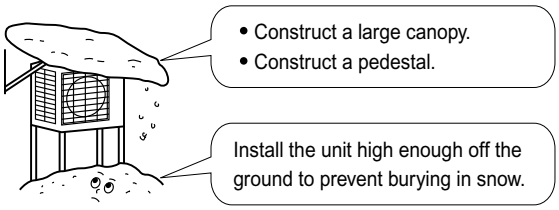
1) Choose a place solid enough to bear the weight and vibration of the unit, where the operation noise will not be amplified.
2) Choose a location where the hot air discharged from the unit or the operation noise, will not cause a nuisance to the neighbors of the user.
3) Avoid places near a bedroom and the like, so that the operation noise will cause no trouble.
4) There must be sufficient spaces for carrying the unit into and out of the site.
5) There must be sufficient space for air passage and no obstructions around the air inlet and the air outlet.
6) The site must be free from the possibility of flammable gas leakage in a nearby place.
   Locate the unit so that the noise and the discharged hot air will not annoy the neighbors.
7) Install units, power cords and inter-unit wires at least 3m away from television and radio sets. This is to prevent interference to images and sounds. (Noises may be heard even if they are more than 3m away depending on radio wave conditions.)
8) In coastal areas or other places with salty atmosphere of sulfate gas, corrosion may shorten the life of the air conditioner.
9) Since drain flows out of the outdoor unit, do not place under the unit anything which must be kept away from moisture.

NOTE:
Cannot be installed hanging from ceiling or stacked.

⚠ CAUTION

When operating the air conditioner in a low outdoor ambient temperature, be sure to follow the instructions described below.

- To prevent exposure to wind, install the outdoor unit with its suction side facing the wall.
- Never install the outdoor unit at a site where the suction side may be exposed directly to wind.
- To prevent exposure to wind, it is recommended to install a baffle plate on the air discharge side of the outdoor unit.
- In heavy snowfall areas, select an installation site where the snow will not affect the unit.

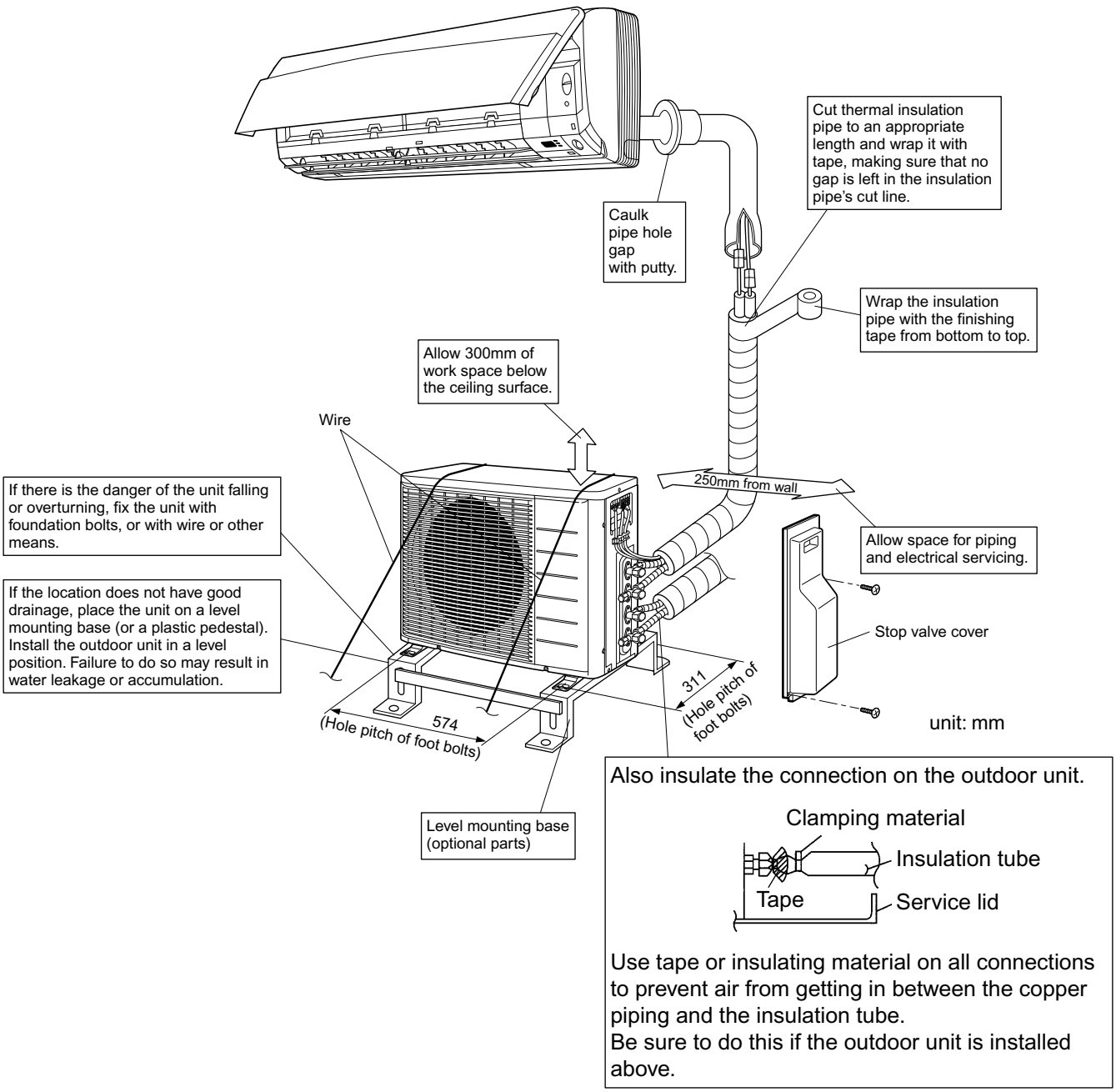


Indoor/Outdoor Unit Installation Drawings

For installation of the indoor units, refer to the installation manual which was provided with the units.
(The diagram shows a wall-mounted indoor unit.)

⚠ CAUTION

- Do not connect the embedded branch piping and the outdoor unit when only carrying out piping work without connecting the indoor unit in order to add another indoor unit later.
  Make sure no dirt or moisture gets into either side of the embedded branch piping.
  See “Precautions for Laying Refrigerant Piping” on page 9 for details.
- It is impossible to connect the indoor unit for one room only. **Be sure to connect at least 2 rooms**.



Installation

- Install the unit horizontally.
- The unit may be installed directly on a concrete verandah or a solid place if drainage is good.
- If the vibration may possibly be transmitted to the building, use a vibration-proof rubber (field supply).

1. Connections (connection port)

Install the indoor unit according to the table below, which shows the relationship between the class of indoor unit and the corresponding port.
The total indoor unit class that can be connected to this unit:

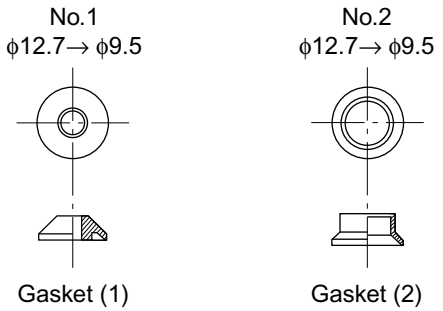
Heat pump type: 2AMX40G∗ / 2MXS40H∗ } Up to 6.0kW 2AMX50G∗ / 2MXS50H∗ } Up to 8.5kW

Port	2AMX40G∗ 2MXS40H∗	2AMX50G∗ 2MXS50H∗
A	15 , 20 , 25 , 35	15 , 20 , 25 , 35 , 42
B	15 , 20 , 25 , 35	(15),(20),(25),(35),(42), 50

( ) : Use a reducer to connect pipes.

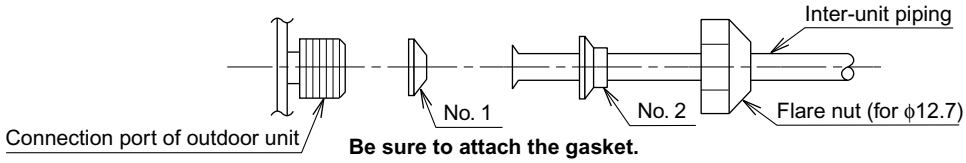
Refer to “How to Use Reducers” for information on reducer numbers and their shapes.

How to Use Reducers



Use the reducers supplied with the unit as described below.

- Connecting a pipe of ϕ9.5 to a gas pipe connection port for ϕ12.7:

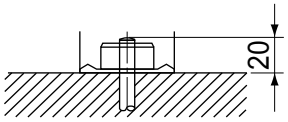


- When using the reducer packing shown above, be careful not to overtighten the nut, or the smaller pipe may be damaged. (about 2/3 - 1 the normal torque)
- Apply a coat of refrigeration oil to the threaded connection port of the outdoor unit where the flare nut comes in.
- Use an appropriate wrench to avoid damaging the connection thread by over-tightening the flare nut.

Flare nut tightening torque	
Flare nut for ϕ12.7	49.5–60.3N·m (505–615kg-f·cm)

Precautions on Installation

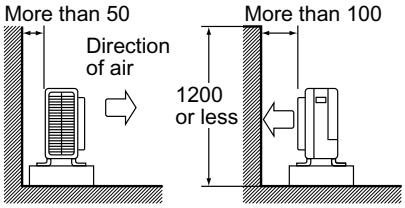
- Check the strength and level of the installation ground so that the unit will not cause any operating vibration or noise after installed.
- In accordance with the foundation drawing in fix the unit securely by means of the foundation bolts. (Prepare 4 sets of M8 or M10 foundation bolts, nuts and washers each which are available on the market.)
- It is best to screw in the foundation bolts until their ends are 20mm from the foundation surface.



Outdoor Unit Installation Guideline

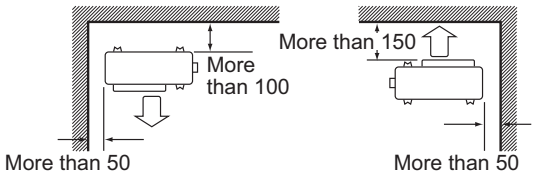
- Where a wall or other obstacle is in the path of outdoor unit's inlet or outlet airflow, follow the installation guidelines below.
- For any of the below installation patterns, the wall height on the exhaust side should be 1200mm or less.

Wall facing one side



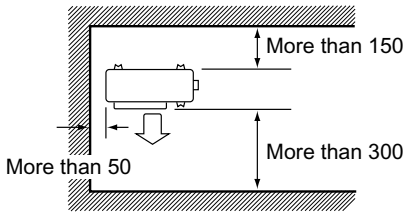
Side view

Walls facing two sides



Top view

Walls facing three sides



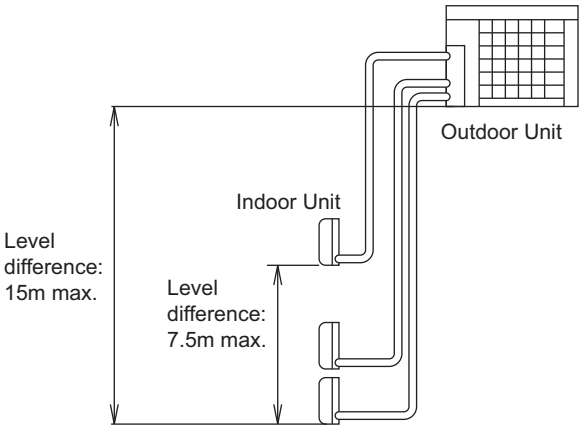
Top view

unit: mm

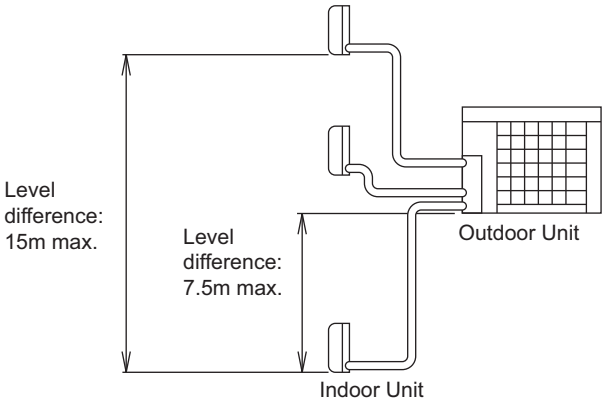
Selecting a Location for Installation of the Indoor Units

- The maximum allowable length of refrigerant piping, and the maximum allowable height difference between the outdoor and indoor units, are listed below.
  (The shorter the refrigerant piping, the better the performance. Connect so that the piping is as short as possible. **Shortest allowable length per room is 3m.**)

Piping to each indoor unit	20m max.
Total length of piping between all units	30m max.



If the outdoor unit is positioned higher than the indoor units.



If the outdoor unit is positioned otherwise.
(If lower than one or more indoor units.)

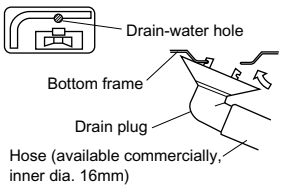
Refrigerant Piping Work

1. Installing outdoor unit

1) When installing the outdoor unit, refer to “Precautions for Selecting the Location” on page 2 and the “Indoor/Outdoor Unit Installation Drawings” on page 3.
2) If drain work is necessary, follow the procedures below.

2. Drain work

1) Use the drain plug for drainage.
2) If the drain port is covered by a mounting base or floor surface, place additional foot bases of at least 30mm in height under the outdoor unit’s feet.
3) In cold areas, do not use a drain hose with the outdoor unit. (Otherwise, drain water may freeze, impairing heating performance.)



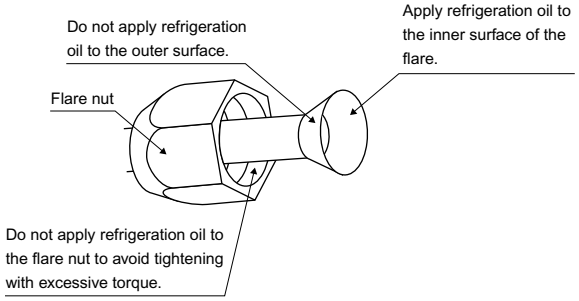
3. Refrigerant piping

⚠ CAUTION

- Use the flare nut fixed to the main unit. (To prevent cracking of the flare nut by aged deterioration.)
- To prevent gas leakage, apply refrigeration oil only to the inner surface of the flare. (Use refrigeration oil for R410A.)
- Use torque wrenches when tightening the flare nuts to prevent damage to the flare nuts and gas leakage.

Align the centres of both flares and tighten the flare nuts 3 or 4 turns by hand. Then tighten them fully with the torque wrenches.

[Apply oil]



Flare nut tightening torque	
Flare nut for ϕ6.4	14.2-17.2N • m (144-175kgf • cm)
Flare nut for ϕ9.5	32.7-39.9N • m (333-407kgf • cm)
Flare nut for ϕ12.7	49.5-60.3N • m (505-615kgf • cm)

Valve cap tightening torque		
Gas side		Liquid side
3/8 inch	1/2 inch	1/4 inch
21.6-27.4N • m (220-280kgf • cm)	48.1-59.7N • m (490-610kgf • cm)	21.6-27.4N • m (220-280kgf • cm)

Service port cap tightening torque
10.8-14.7N • m (110-150kgf • cm)

Refrigerant Piping Work

4. Purging air and checking gas leakage

⚠ WARNING

- Do not mix any substance other than the specified refrigerant (R410A) into the refrigeration cycle.
- When refrigerant gas leaks occur, ventilate the room as soon and as much as possible.
- R410A, as well as other refrigerants, should always be recovered and never be released directly into the environment.
- Be sure to check for gas leaks.

- When piping work is completed, it is necessary to purge the air and check for gas leakage.
- Be sure to perform vacuum pumping for all the rooms at the same time.
- Be sure to use the special tools for the R410A (gauge manifold, charge hose, vacuum pump, vacuum pump adapter, etc.).
- Use a hexagonal wrench (4mm) to operate the stop valve rod.
- All refrigerant pipe joints should be tightened with a torque wrench at the specified tightening torque.

1) Connect the charge hose protrusions (the side for pushing the pin) for low pressure and high pressure on the gauge manifold to the gas stop valve service port for rooms **A and B**.

2) Fully open gauge manifold's low-pressure valve (Lo) and high-pressure valve (Hi).

3) Apply vacuum pumping for 20 minutes or longer. Check that the compound pressure gauge reads –0.1MPa (–76cmHg).

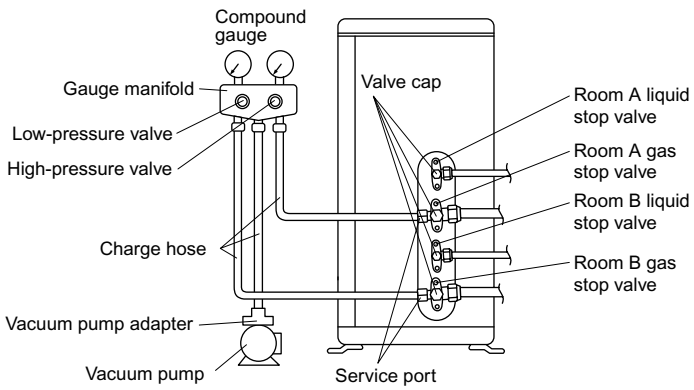
4) After checking the vacuum, close the low pressure and high pressure valves on the gauge manifold and stop the vacuum pump. (Leave as is for 4-5 minutes and make sure the coupling meter needle does not go back.) If it does go back, this may indicate the presence of moisture or leaking from connecting parts.
After inspecting all the connection and loosening then retightening the nuts, repeat steps 2) → 3) → 4).

5) Remove the valve caps on the liquid and gas stop valves at the pipes for rooms A and B.

6) Open the valve rods on the liquid stop valves for rooms A and B by turning them 90° counterclockwise using a hex wrench. Close them 5 seconds later and check for gas leaks.
After checking for gas leaks, check the areas around flares on the indoor unit, and the areas around flares and valve rods on the outdoor unit by applying soapy water.
Wipe down thoroughly after the check is complete.

7) Remove the charge hose from the gas stop valve service ports at the pipes for rooms A and B and completely open the liquid and gas stop valves at the pipes for rooms A and B.
(Stop the valve rods as far as they go and do not attempt to turn them any further.)

8) Use a torque wrench to tighten the valve caps and service port caps on the liquid and gas stop valves at the pipes for rooms A and B to the designated torque.



5. Refilling the refrigerant

Check the type of refrigerant to be used on the machine nameplate.

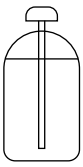
Precautions when adding R410A

Fill from the gas pipe in liquid form.

It is a mixed refrigerant, so adding it in gas form may cause the refrigerant composition to change, preventing normal operation.

1) Before filling, check whether the cylinder has a siphon attached or not. (It should have something like “liquid filling siphon attached” displayed on it.)

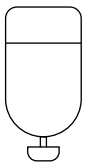
Filling a cylinder with an attached siphon



Stand the cylinder upright when filling.

(There is a siphon pipe inside, so the cylinder need not be upside-down to fill with liquid.)

Filling other cylinders



Turn the cylinder upside-down when filling.

2) Be sure to use the R410A tools to ensure pressure and to prevent foreign objects entering.

6. Charging with refrigerant

- If the total length of piping for all rooms exceeds 20m, additionally charge with **(R410A) 20g** of refrigerant for each additional meter of piping.

Important information regarding the refrigerant used

This product contains fluorinated greenhouse gases covered by the Kyoto Protocol.
Do not vent gases into the atmosphere.

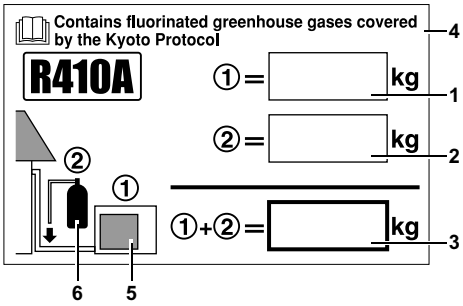
Refrigerant type: **R410A**

GWP[1] value: **1975**

[1] GWP = global warming potential

Please fill in with indelible ink,
■ ① the factory refrigerant charge of the product,
■ ② the additional refrigerant amount charged in the field and
■ ①+② the total refrigerant charge
on the refrigerant charge label supplied with the product.

The filled out label must be adhered in the proximity of the product charging port (e.g. onto the inside of the stop valve cover).



1 factory refrigerant charge of the product: see unit name plate

2 additional refrigerant amount charged in the field

3 total refrigerant charge

4 Contains fluorinated greenhouse gases covered by the Kyoto Protocol

5 outdoor unit

6 refrigerant cylinder and manifold for charging

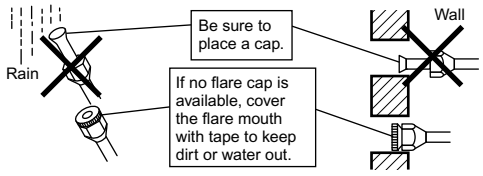
NOTE:
National implementation of EU regulation on certain fluorinated greenhouse gases may require to provide the appropriate official national language on the unit. Therefore an additional multilingual fluorinated greenhouse gases label is supplied with the unit.
Sticking instructions are illustrated on the backside of that label.

⚠ CAUTION

- Even though the stop valve is fully closed, the refrigerant may slowly leak out; do not leave the flare nut removed for a long period of time.
- Do not overfill with refrigerant. This will break the compressor.

Refrigerant Piping Work

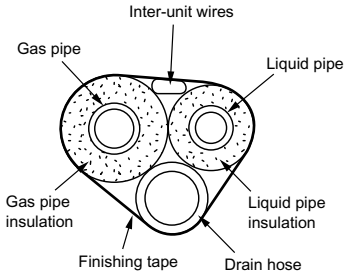
Precautions for Laying Refrigerant Piping



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

- **Selection of copper and heat insulation materials**

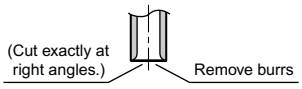
  When using commercial copper pipes and fittings, observe the following:
  1) Insulation material: Polyethylene foam
     Heat transfer rate: 0.041 to 0.052W/mK (0.035 to 0.045kcal/mh°C)
     Refrigerant gas pipe's surface temperature reaches 110°C max.
     Choose heat insulation materials that will withstand this temperature.
  2) Be sure to insulate both the gas and liquid piping and to provide insulation dimensions as below.



Gas pipe		Liquid pipe	Gas pipe insulation	Liquid pipe insulation
O.D.9.5mm	O.D.12.7mm	O.D.6.4mm	I.D.12-15mm	I.D.8-10mm
Minimum bend radius			Thickness 13mm min.	Thickness 10mm min.
30mm or more	40mm or more	30mm or more		
Thickness 0.8mm (C1220T-O)				

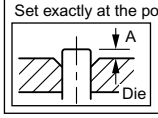
  3) Use separate thermal insulation pipes for gas and liquid refrigerant pipes.

- **Flaring the pipe end**
  1) Cut the pipe end with a pipe cutter.
  2) Remove burrs with the cut surface facing downward so that the chips do not enter the pipe.
  3) Put the flare nut on the pipe.
  4) Flare the pipe.
  5) Check that the flaring is properly made.



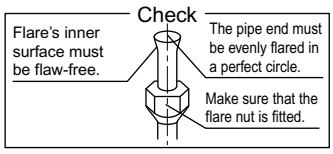
Flaring

Set exactly at the position shown below.



	Flare tool for R410A	Conventional flare tool	
	Clutch-type	Clutch-type (Rigid-type)	Wing-nut type (Imperial-type)
A	0-0.5mm	1.0-1.5mm	1.5-2.0mm

Check



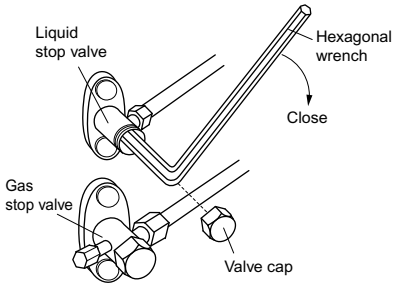
⚠ WARNING

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

Pump Down Operation

In order to protect the environment, be sure to pump down when relocating or disposing of the unit.

1) Remove the valve caps on the liquid and the gas stop valves at the pipes for rooms A and B.
2) Run the unit on forced cooling. (Refer to the instructions below.)
3) After 5 to 10 minutes, close the liquid stop valves at the pipes for rooms A and B using a hex wrench.
4) After 2 to 3 minutes, stop the forced cooling operation as quickly as possible after the gas stop valves at the pipes for rooms A and B have been shut off.
5) Turn the power breaker off.



⚠ CAUTION

Run the air conditioner to cool both rooms A and B when performing a pump down.

1. Forced cooling operation

1-1. Using the indoor unit start/stop button.

1) Press the start/stop button on the indoor unit in either room A or B for 5 seconds continuously.
   The units in both rooms will start.
2) Forced cooling operation will end after around 15 minutes and the unit will stop automatically. Press the start/stop button on the indoor unit to force the operation to stop.
3) **Use this method to force cooling operation when the outside temperature is 10°C or lower.**

1-2. Using the wireless remote controller.

1) Select cooling operation and press the start/stop button. (The unit will start.)
2) Press the temperature ▲ button, ▼ button, and the “mode” button at the same time.
3) Press the “mode” button twice.
   (7 will be displayed and the unit will go into test-run mode.)
4) Test-run mode will end after around 30 minutes and the unit will stop automatically. Press the start/stop button to force the test-run to stop.

⚠ CAUTION

If the outside temperature is 10°C or lower, the safety device might start, preventing operation. In this situation, warm the outside temperature thermistor on the outdoor unit to 10°C or warmer. Operation will start.

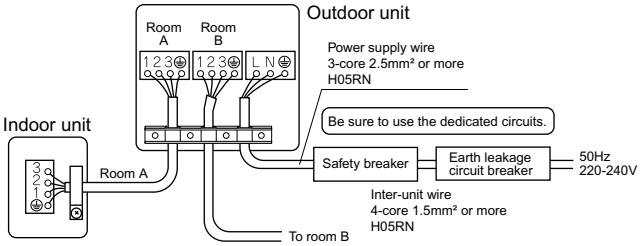
Wiring

⚠ WARNING

- Do not use tapped wires, stranded wires (**CAUTION** 1)), extension cords, or starburst connections, as they may cause overheating, electrical shock, or fire.
- Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so may cause electric shock or fire.
- Be sure to install an earth leakage breaker. (One that can handle higher harmonics.)
  (This unit uses an inverter, which means that an earth leakage breaker capable of handling harmonics must be used, in order to prevent malfunctioning of the earth leakage breaker itself.)
- Use an all-pole disconnection type breaker with at least 3mm between the contact point gaps.
- Do not connect the power wire to the indoor unit. Doing so may cause electric shock or fire.

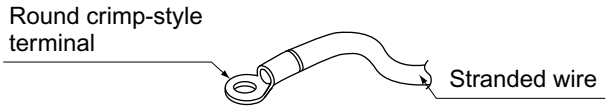
- Do not turn on the safety breaker until all work is completed.

1) Strip the insulation from the wire (20mm).
2) Connect the inter-unit wires between the indoor and outdoor units **so that the terminal numbers match**.
   Tighten the terminal screws securely. We recommend a flathead screwdriver be used to tighten the screws. The screws are packed with the terminal block.

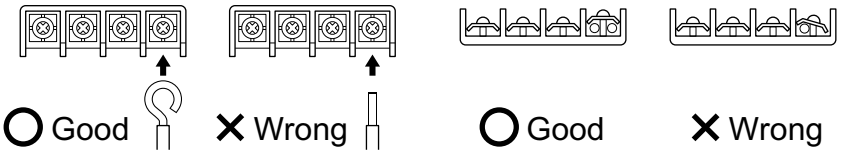


⚠ CAUTION

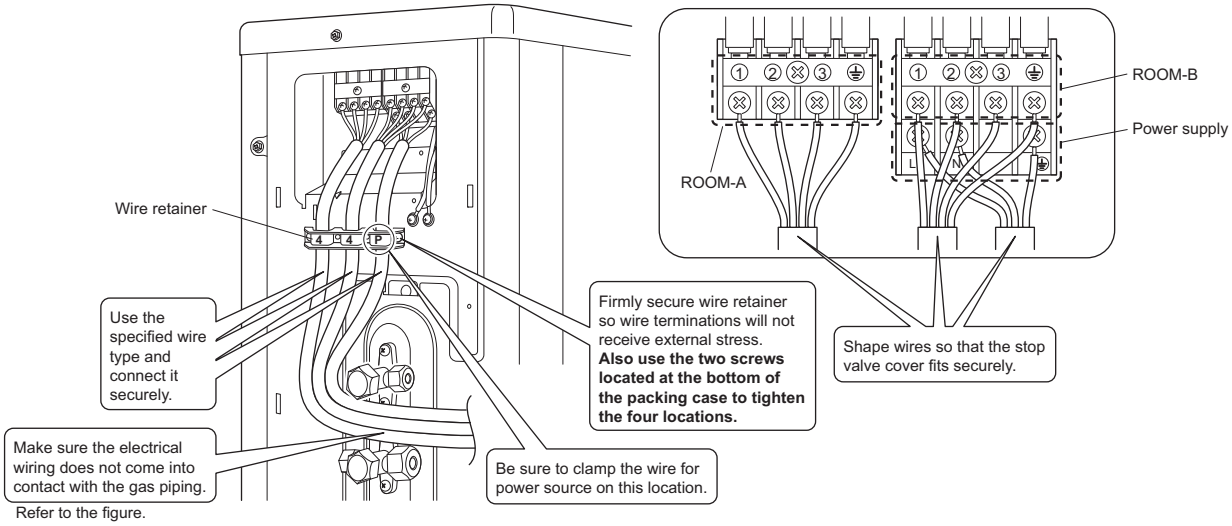
- When connecting the inter-unit wire to the terminal block using a single core wire, be sure to perform curling.
  Problems with the work may cause heat and fires.



- If the stranded wires must be used, make sure to use the round crimp-style terminal for connection to the power supply terminal block. Place the round crimp-style terminals on the wires up to the covered part and secure in place.

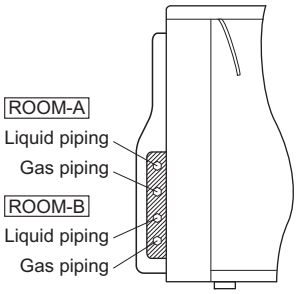


3) Pull the wire and make sure that it does not disconnect. Then fix the wire in place with a wire retainer.



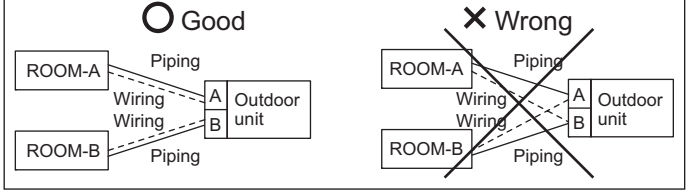
Make sure the connecting piping and wiring fit into ▨.

(Incorrect handling will make it hard to attach the stop valve cover, causing deformation.)



Make absolutely sure all wiring is correct.

Make sure the wiring and piping from the indoor unit to the outdoor unit match.

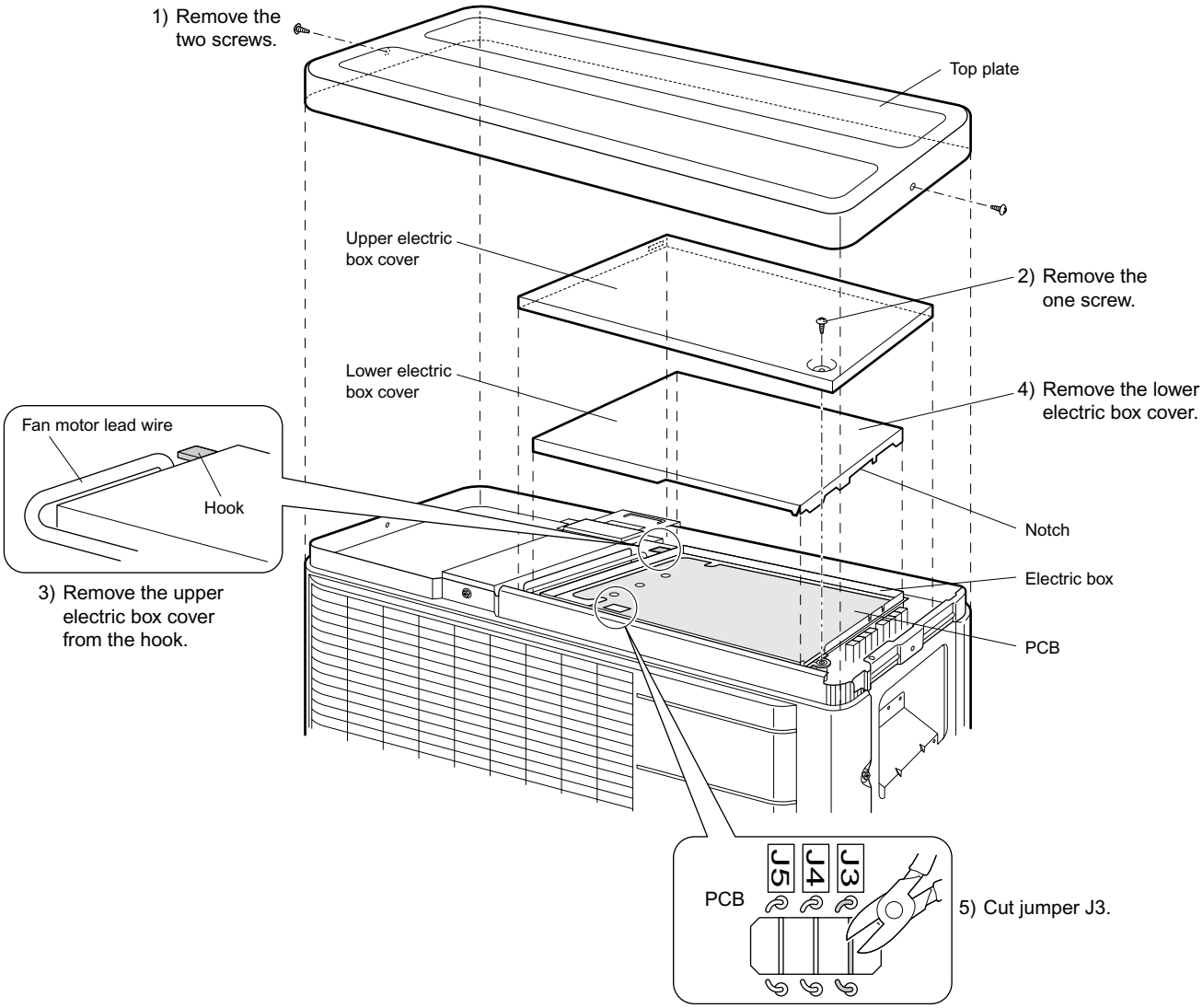


ECONO Mode Prohibition Setting

⚠ WARNING

Always shut off the power supply breaker before starting.

- This setting disables the input control signal from the remote controller.
- Use this setting when you wish to block reception of input controls (cooling/heating) from indoor unit remote controllers.
- Set as follows.
  1) Remove the two screws on the side and remove the top plate of the outdoor unit.
  2) Remove one screw from the upper electric box cover.
  3) Remove the upper electric box cover by sliding it, being careful not to bend the electric box hook.
  4) Remove the lower electric box cover.
  5) Cut the jumper (J3) of the PCB inside.
  6) Go back through step 4) → 3) → 2) → 1). Make sure all components are well secured when doing this.



⚠ CAUTION

- When removing the upper electric box cover, be careful not to bend the hook.
- When returning the lower electric box cover, return the notch to the stop valve side.
- When returning the upper electric box cover, be careful not to pinch the fan motor lead wire.

Trial Operation and Testing

- Before starting the test run, measure the voltage at the primary side of the safety breaker.
- Check that all liquid and gas stop valves are fully open.
- Check that piping and wiring all match.

1. Trial operation and testing

1) To test cooling, set for the lowest temperature. To test heating, set for the highest temperature. (Depending on the room temperature, only heating or cooling (but not both) may be possible.)
2) After the unit is stopped, it will not start again (heating or cooling) for approximately 3 minutes.
3) During the test run, first check the operation of each unit individually. Then also check the simultaneous operation of all indoor units.
   Check both heating and cooling operation.
4) After running the unit for approximately 20 minutes, measure the temperatures at the indoor unit inlet and outlet. If the measurements are above the values shown in the table below, then they are normal.

	Cooling	Heating
Temperature difference between inlet and outlet	Approx. 8°C	Approx. 15°C

(When running in one room)

5) During cooling operation, frost may form on the gas stop valve or other parts. This is normal.
6) Operate the indoor units in accordance with the included operation manual. Check that they operate normally.

2. Items to check

Check item	Consequences of trouble	Check
Are the indoor units installed securely?	Falling, vibration, noise	
Has an inspection been made to check for gas leakage?	No cooling, no heating	
Has complete thermal insulation been done (gas pipes, liquid pipes, indoor portions of the drain hose extension)?	Water leakage	
Is the drainage secure?	Water leakage	
Are the ground wire connections secure?	Danger in the event of a ground fault	
Are the electric wires connected correctly?	No cooling, no heating	
Is the wiring in accordance with the specifications?	Operation failure, burning	
Are the inlets/outlets of the indoor and outdoor units free of any obstructions?	No cooling, no heating	
Are the stop valves open?	No cooling, no heating	
Do the marks match (room A, room B) on the wiring and piping for each indoor unit?	No cooling, no heating	

ATTENTION

- Have the customer actually operate the unit while looking at the manual included with the indoor unit. Instruct the customer how to operate the unit correctly (particularly cleaning of the air filters, operation procedures, and temperature adjustment).
- Even when the air conditioner is not operating, it consumes some electric power. If the customer is not going to use the unit soon after it is installed, turn off the breaker to avoid wasting electricity.
- If additional refrigerant has been charged because of long piping, list the amount added on the nameplate on the reverse side of the stop valve cover.

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