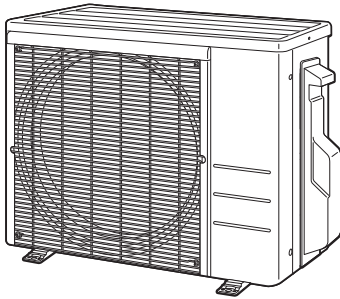


DAIKIN



INSTALLATION MANUAL

R410A Split Series



Models

RX50KV1B

RX60KV1B

RX71KV1B

CE - DECLARATION OF CONFORMITY
CE - KONFORMITÄTSERKLÄRUNG
CE - DECLARAZIONE DI CONFORMITÀ
CE - CONFORMITEITSVERKLARING

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

CE - DECLARACÃO DE CONFORMIDADE
CE - ЗАЯВЛЕНИЕ О СООТВЕТСТВИИ
CE - OVERENSTEMMELSESERKLARING
CE - FÖRSÄKRAN OM ÖVERENSTEMMELSE

CE - ERKLÄRUNG OM SAMSVAR
CE - ILMOITUS-YHDENMUKAISUDESTA
CE - PROHLÁŠENÍ O SHODĚ

CE - IZJAVA-O-USKLADENOSTI
CE - MEGFELELŐSÉGI NYILATKOZAT
CE - DEKLARACIJA-ZGODNOSTI
CE - DECLARAȚIE DE CONFORMITATE

CE - IZJAVA-O-SKLADNOSTI
CE - VASTAVUSEDEKLARACIJA
CE - АТБІЛІСТІБАС-ДЕКЛАРАЦІЯ
CE - VYHLÁŠENIE-ZHODY
CE - UYGUNLUK-BEYANI

CE - АТІТКІТІБАС-ДЕКЛАРАЦІЯ
CE - АТБІЛІСТІБАС-ДЕКЛАРАЦІЯ
CE - VYHLÁŠENIE-ZHODY
CE - UYGUNLUK-BEYANI

Daikin Industries Czech Republic s.r.o.

- 01 (66) declares under its sole responsibility that the air conditioning models to which this declaration relates:
02 (66) erklärt auf seine alleinige Verantwortung, dass die Modelle der Klimaanlage für die diese Erklärung bestimmt ist:
03 (66) déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclaration:
04 (66) verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft:
05 (66) declara bajo su única responsabilidad que los modelos de aire acondicionado a los cuales hace referencia la declaración:
06 (66) dichiara sotto sua responsabilità che i condizionatori modello a cui è riferita questa dichiarazione:
07 (66) б'являе на амаксамсн'й т'іс, ч'яб'яні ў т'а п'раб'а т'ах к'ліматат'ах, н'ахв'аіў т'а амак амак'а т'а п'раб'а т'ахв'аіў:
08 (66) declara sub sua exclusiva responsabilitate que este declarație se referă:

RX50KV1B, RX60KV1B,

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 laux normes(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 all(i) seguente(i) standard(s) o altro(i) document(o) i carattere normativo, a patto che vengano usati in conformità alle nostre istruzioni:
07 эти соответствуют следующим стандартам (и другим документам нормативного характера), при условии их использования согласно нашим инструкциям:
08 estas en conformitate cu standardele (si alte documente normative) la care sunt utilizate de acord cu instructiunile noastre:

09 эти соответствуют следующим стандартам (и другим документам нормативного характера), при условии их использования согласно нашим инструкциям:

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 je tipičny tvor štandardov:

08 de acordo com o previsto em:

09 в соответствии с положениями:

01 Nola *

02 Hinweis *

03 Remarque *

04 Bemerk *

05 Nota *

06 Nota *

07 Instruktion *

08 Nota *

09 Примечание *

10 Bemærk *

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

02** DICZ*** has the Berechtigung die Technische Konstruktionsakte zusammenzustellen.

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

04** DICZ*** is bevoegd om het Technisch Constructiedossier samen te stellen.

05** DICZ*** está autorizada a compilar el Archivo de Construcción Técnica.

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

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

DAIKIN

Tetsuya Baba
Managing Director
Pilsen, 2nd of Jan. 2015

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

3P394245-3C

09 (66) заверяет исключительно под свою ответственность, что модели кондиционеров воздуха, к которым относится настоящее заявление:

10 (66) erklærer under enskrav, at klimaanlægsmødelne, som denne deklaration vedrører:

11 (66) déclareer i egenskap av huvudsansvarig, att luftkonditioneringsmodellerna som berörs av denna deklaration innebär att:

12 (66) erklærer et fulstændigt ansvar for at de luftkonditioneringsmodeller som berøres af denne deklaration, indebærer at:

13 (66) ilmoittaa yksinomaan arvalla vastuullisuuden, että läänän ilmastointilaitteiden laiminlöytämällä laiminlöytämällä mallit:

14 (66) prohláší, že ve své plné odpovědnosti, že modely Klimatizace, k nímž se toto prohlášení vztahuje:

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

16 (66) teľjes felelőssége tudatában kijelenti, hogy a klímaberendezés modellek, melyekre a nyilatkozat vonatkozik:

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 соответствует следующим стандартам или другим нормативным документам, при условии их использования согласно нашим инструкциям:
10 overholder følgende standard(er) eller andre/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 usŭry er i overensstemmelse med følgende standard(er) eller andre normgivende dokument(er), under forutsætning at disse bruges i henhold til vore instrukser:
13 vastavaat seuraavien standardien ja muiden ohjeistettujen dokumenttien vaatimuksia edellytäten, että niitä käytetään ohjeidemme mukaisesti:
14 za predpôklad, že jsou vyvířeny v souladu s našimi pokyny, odpovídají následujícím normám nebo normativním dokumentům:
15 u skladu sa slediacim standardom(ami) ili drugim normativnim dokumentom(ami), za výjet da se oni koriste u skladu s našim uputstvom:

01 Directives, as amended.

02 Direktiven, gemäß Änderung.

03 Directives, telles que modifiées.

04 Richtlijnen, zoals gewijzigd.

05 Directivas, según lo emendado.

06 Direktive, come da modifica.

07 Odhuk, omuk tyov romotompeŭ.

08 Directivas, conforme alteração em.

09 Директиве со взыми поправами.

21 Забелешка *

22 Pasabla *

23 Pozmes *

24 Poznamka *

25 Not *

13** DICZ*** on valitultu laimateen Teknisen asakijan.

14** Společnost DICZ*** má oprávnění ke kompilaci souboru technické konstrukce.

15** DICZ*** je ověřen za zřadu Datoletke o lehmickj konstrukci.

16** A DICZ*** jopsult e mlszak konstrukciós dokumentáció összeállítására.

17** DICZ*** má povoznenie do zberania opracovovania dokumentaj konstrukcijnej.

18** DICZ*** este autorizat sa compileze Dosarul Tehnic de constructie.

10 Direktiver, med senere ændringer.

11 Direktiv, med foretagne ændringer.

12 Direktiver, med foretagne ændringer.

13 Direktivel, selajana kulin ne ova muetluta.

14 v planim zření.

15 Snijemice, kako je izmijenjeno.

16 Irtayev(ek) is modotilask rendelezeseit.

17 z poznejšimi popravkami.

18 Direktivelor, cu amendamentele respective.

21 Забелешка *

22 Pasabla *

23 Pozmes *

24 Poznamka *

25 Not *

19** DICZ*** je pooblaščen za sestavo datoteke s tehnično mapo.

20** DICZ*** on volitultu koostama tehnilist dokumentatsiooni.

21** DICZ*** e omprizajana za osramy Ark za tehnička konstrukciya.

22** DICZ*** va jaloda sudajni šj tehničesk konstrukcijs fajla.

23** DICZ*** i autorizats sastaditi tehničko dokumentacijau.

24** Spoločnosť DICZ*** je oprávnená vytvoriť súbor technickej konštrukcie.

25** DICZ*** Teknik Yapı Dosyasını derlemeye yetkilidir.

17 (66) deklaruje na vlastnuj vyjražnuj odgovornost, že modely klimatyzaťov, ktorjchj objyctj ninesja deklaracija:

18 (66) deklari je proprie răspunde de aparatele de aer conditionat la care se referă prezenta declarație:

19 (66) z vero odgovornostjo izjavja, da so modeli klimatskih naprav, na katere se izjava nanaša:

20 (66) kinitab ona iabelu vastutusei, et klesodeva deklaratsioni ala kuuluvad klimateedmetele mudelid:

21 (66) deklarirova na sobo otvorochnoj, že modelnye klimatichnae iskrataniya, za kormo ce otnasj tazy deklaraciya:

22 (66) vsika savo atsakomje slebha, kad ovoj kondicionirno prelasny modelai, kuriems yra laikoma šj deklaracija:

23 (66) priu abilihtu apliecia, na iabku uskazitno modelai gaisa kondicioneraj, ur kurem atlecas šj deklaracija:

24 (66) vyhláše na vlastnuj zodpovednost, že tieto klimatizačné modely, na ktoré sa vzťahuje toto vyhlásenie:

25 (66) lamamen kendj somulmugunda olmak üzere bu bildirimni ilgili oluduğu klima modellerinin aşağıdaki gibi olduğunu beyan eder:

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

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

CE - DECLARACÃO DE CONFORMIDADE
CE - ЗАЯВЛЕНИЕ О СООТВЕТСТВИИ
CE - OVERENSTEMMELSESERKLÄRING
CE - FÖRSÄKRAN OM ÖVERENSTEMMELSE

CE - ERKLÄRING OM SÄMSVAR
CE - ILMOITUS-YHDENMUKAISUDESTA
CE - DEKLARACJA ZGODNOŚCI
CE - DECLARAȚIE DE CONFORMITATE

CE - IZJAVA O USKLADENOSTI
CE - MEGFELELŐSÉGI NYILATKOZAT
CE - ДЕКЛАРАЦІЯ ЗА СЪОТВѢТСТВІЕ

CE - IZJAVA O SKLADNOSTI
CE - VASTAVUSDEKLARACIJA
CE - DEKLARACIJA ZA SЪОТВѢТСТВІЕ

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

Daikin Industries Czech Republic s.r.o.

- 01 (66) declares under its sole responsibility that the air conditioning models to which this declaration relates:
02 (C) erklärt auf seine alleinige Verantwortung daß die Modelle der Klimaanlage für die diese Erklärung bestimmt ist:
03 (E) 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 bajo su única responsabilidad que los modelos de aire acondicionado a los cuales hace referencia la declaración:
06 (C) dichiara sotto sua responsabilità che i condizionatori modello a cui è riferita questa dichiarazione:
07 (GR) δηλώνει με αποκλειστική της ευθύνη ότι τα προϊόντα των κλιματιστικών συσκευών στο οποίο αφορά αυτή η προώθηση ή προώθηση ή προώθηση:
08 (P) declara sob sua exclusiva responsabilidade que os modelos de ar condicionado a que esta declaração se refere:

RX71KV1B,

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 (E) 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 laux norm(e)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 all(i) seguente(i) standard(s) o altro(i) document(o) i carattere normativo, a patto che vengano usati in conformità alle nostre istruzioni:
07 эти соответствуют же той(м) же(м) стандарту(м) или документам(ам) нормативного характера, при условии, что они используются в соответствии с нашими инструкциями:

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 je tipičny tvár obdávku tvár:

08 de acordo com o previsto em:

09 в соответствии с положениями:

01 Note * as set out in <A> and judged positively by according to the Certificate <C>

02 Hinweis * wie in <A> aufgeführt und von positiv beurteilt gemäß Zertifikat <C>

03 Remarque * tel que défini dans <A> et évalué positivement par conformément au Certificat <C>

04 Bemerk * zoals vermeld in <A> en positief beoordeeld door overeenkomstig Certificat <C>

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

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

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

03** DICZ*** es autorise à compiler le Dossier de Construction Technique.

04** DICZ*** is bevoegd om het Technisch Constructiedossier samen te stellen.

05** DICZ*** está autorizada a compilar el Archivo de Construcción Técnica.

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

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



Tetsuya Baba
Managing Director
Plisen, 1st of Oct. 2015

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

3P394245-5E

09 (NL) verzekert, uitsluitend onder zijn eigen verantwoordelijkheid, dat de modellen van airconditioners waarvan deze verklaring afkomstig is, aan de volgende norm(en) of andere normatieve document(en) voldoen, op voorwaarde dat deze worden gebruikt overeenkomstig onze instructies:

10 (DE) erklärt unter meiner Verantwortung, daß die Modelle der Klimaanlage, von denen diese Erklärung abstammt, den folgenden Normen (en) oder einem anderen Normdokument (en) entsprechen, vorausgesetzt, daß sie gemäß unseren Anweisungen eingesetzt werden:

11 (S) deklarerar i egenansvar, att luftkonditioneringsmodellerna som berörs av denna deklaration innebär att:

12 (NL) erklærer et fulstændigt ansvar for at de luftkonditioneringsmodeller som berøres af denne deklaration, imødelever at:

13 (NL) ilmoittaa yksinomaan omista vastuustaan, että lään ilmoittamien laitteiden valmistajalle mallit:

14 (CZ) prohlásí ve své plné odpovědnosti, že modely Klimatizace, k nrtě se tato prohlášení vztahují:

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

16 (H) teljes felelősségre tudatában kijelentem, hogy a klímaberendezés modellek, melyekre a nyilatkozat vonatkozik:

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 andre/andre retningsgivende dokument(er), forudsat at disse anvendes i henhold til vore instrukser:

11 respektive utställning 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 ulsyer er i overensstemmelse med følgende standard(er) eller andre normgivende dokument(er), under forudsætning af at disse bruges i henhold til våre instruksjoner:

13 asavaat seuraavien standardien ja muiden ohjeistettujen dokumenttien vaatimuksia edellytäten, että niitä käytetään ohjeiden mukaisesti:

14 za predpostavku, že jsou využívány v souladu s našimi pokyny, odpovídají následujícím normám nebo normativním dokumentům:

15 u skladu sa sledećim standardom(na) ili drugim normativnim dokumentom(na), uz ujet da se oni koriste u skladu s našim uputima:

01 Directives, as amended.

02 Direktiven, gemäß Änderung.

03 Directives, telles que modifiées.

04 Richtlijnen, zoals geamendeerd.

05 Directivas, según lo emendado.

06 Direktive, come da modifica.

07 Odhukuv, ömuk, tyomv romonovpři.

08 Directivas, conforme alteração em.

09 Директиве со всеми поправками.

16 Megjegyzés * a(z) <A> alapján, a(z) igazolta a megjelölt, a(z) <C> tanúsítvány szerint

22 Pasabta * kápo mudatya <A> ir kápo legiania mupseta pága Seritifikat <C>

23 Pozmes * kápo mudatya <A> ir kápo legiania mupseta pága Seritifikat <C>

24 Pozanika * ako bilo uvedeno i <A> pozitivne zjeto v skladu s ovrednotim <C>

25 Not * naku on nakuat dokumentis <A> ja heals kikuat jarg vastava seritifikat <C>

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

14** Společnost DICZ*** má oprávnění ke kompilaci souboru technické konstrukce.

15** DICZ*** je ověřen za zřadu Dátověk o lemnickj konstrukci.

16** A DICZ*** jogsallt a mlszak konstrukciós dokumentációt összeállítsa.

17** DICZ*** má povazovanie do zberania opracovovania dokumentaj konstrukcijnej.

18** DICZ*** este autorizat sa compileze Desauri tehnic de constructie.

19** DICZ*** je pooblaščen za sestavo datovek s tehnično mapo.

20** DICZ*** on valtuudet koostama tehnilist dokumentatsiooni.

21** DICZ*** je oprazovavana za osyama Akta za tehnicka konstrukcija.

22** DICZ*** va jalgida sudatyi iz tehnicnes konstrukcijs faja.

23** DICZ*** ir autorizēts sastādīt tehniško dokumentāciju.

24** Spoločnosť DICZ*** je oprávnená vytvoriť súbor technickej konštrukcie.

25** DICZ*** Teknik Yapı Dosyasını derlemeye yetkilidir.

17 (NL) deklareer, na vlastní výkresná odpovědnost, že modely klimatizátorů, kterých dotyczy niniejsza deklaracja:

18 (DE) deklariert je proprie răspundere de aparatură de aer condiționat la care se referă prezenta declarație:

19 (CZ) z oso odgovorností jzavja, da so modeli klimatskih naprav, na katere se izjava nanaša:

20 (NL) kinnitat oma täieliku vastutuse, et käesoleva deklaratsiooni alla kuuluvad klimateedmede mudelid:

21 (DE) deklariera na sobo otvornost, že modelnye klimaticheskii uskrasniya, za kormo se otnosy tazh deklariatsiya:

22 (CZ) všetka savo atsakombye slebba, vad omo kondicionavnmo přetasy modelai, kuriems yra laikoma ši deklaracija:

23 (CZ) vřetka svo atsakombye slebba, vad omo kondicionavnmo přetasy modelai, kuriems yra laikoma ši deklaracija:

24 (CZ) vyhlásuje na vlastní zodpovednosť, že tieto klimatizačné modely, na ktoré sa vzťahuje táto vyhlásenie:

25 (TR) lanamen kendi sorumluluğunda olmak üzere bu bildirimni ilgili ölçüde klima modellerinin aşağıdaki gibi olduğunu beyan eder:

16 megjelölnek az alábbi szabvány(ok)nak vagy egyéb irányadó dokumentum(ok)nak, az azokat előírtak szerint használják:

17 spełnia 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 altele documente normative, cu condiția ca acestea să fie utilizate în conformitate cu instrucțiunile noastre:

19 confornta cu următorul (următoarele) standard(e) sau altele documente normative, cu condiția ca acestea să fie utilizate în conformitate cu instrucțiunile noastre:

20 on vastastus järgmistis standarditega või teiste normatiivsete dokumentidega, kui need kasutatakse vastavalt meie juhenditele:

21 соответствует на средние стандарт или други нормативные документы, при условии, что се используют согласно нашим инструкциям:

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

23 tad, je listici atbilstošs raščioja noridėjumien, atbist sekioštem standartien u oim normatiivien dokumentien:

24 su i v pntu następnymi (ymi) normami (ami) alebo jinými (ymi) normatívnymi dokumentami, za predpokladu, že sa používajú v súlade s našimi návodmi:

25 jünün, lamlamlama gre kulanimas kşululya aşğıdaki standartlar ve norm belirlen belgelerle uyumludur:

10 Direktive, med senere ændringer.

11 Direktiv, med foretagne ændringer.

12 Direktiver, med foretagne ændringer.

13 Direktiivien, sellä kuin ne ovat muutettuna.

14 v planim zření.

15 Snjmenice, kako je izmjenjeno.

16 Irtayev(ek) is modostisak rendelezeset.

17 z poznejšimi popravkami.

18 Direktivelor, cu amendamentele respective.

21 Zabeleška * karto e kulovieno s <A> u ošueno romonovno ot samozna Cepmepuara <C>

22 Pasabta * kápo mudatya <A> ir kápo legiania mupseta pága Seritifikat <C>

23 Pozmes * kápo mudatya <A> ir kápo legiania mupseta pága Seritifikat <C>

24 Pozanika * ako bilo uvedeno i <A> pozitivne zjeto v skladu s ovrednotim <C>

25 Not * naku on nakuat dokumentis <A> ja heals kikuat jarg vastava seritifikat <C>

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

WARNING

• Ask your dealer or qualified personnel to carry out installation work. Do not attempt to install the air conditioner yourself. Improper installation may result in water leakage, electric shocks or fire.	
• Install the air conditioner in accordance with the instructions in this installation manual. Improper installation may result in water leakage, electric shocks or fire.	
• Be sure to use only the specified accessories and parts for installation work. Failure to use the specified parts may result in the unit falling, water leakage, electric shocks or fire.	
• Install the air conditioner on a foundation strong enough to withstand the weight of the unit. A foundation of insufficient strength may result in the equipment falling and causing injury.	
• Electrical work must be performed in accordance with relevant local and national regulations and with instructions in this installation manual. Be sure to use a dedicated power supply circuit only. Insufficiency of power circuit capacity and improper workmanship may result in electric shocks or fire.	
• Use a cable of suitable length. Do not use tapped wires or an extension lead, as this may cause overheating, electric shocks or fire.	
• Make sure that all wiring is secured, the specified wires are used, and that there is no strain on the terminal connections or wires. Improper connections or securing of wires may result in abnormal heat build-up or fire.	
• When wiring the power supply and connecting the wiring between the indoor and outdoor units, position the wires so that the control box lid can be securely fastened. Improper positioning of the control box lid may result in electric shocks, fire or over heating terminals.	
• If 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.	

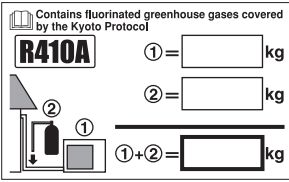
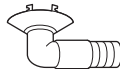
CAUTION

• 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.
- The temperature of refrigerant circuit will be high, please keep the inter-unit wire away from copper pipes that are not thermally insulated.
- This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial and household use by lay persons.
- Sound pressure level is less than 70 dB(A).

Accessories

Accessories supplied with the outdoor unit:

(A) Installation Manual	1		
(C) Refrigerant charge label 	1	(B) Drain plug  It is on the bottom of the packing case.	1
(D) Multilingual fluorinated greenhouse gases label 	1	(E) Drain cap (1) 	6
		(F) Drain cap (2) 	3

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.
- 7) Install units, power cords and inter-unit wire 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.

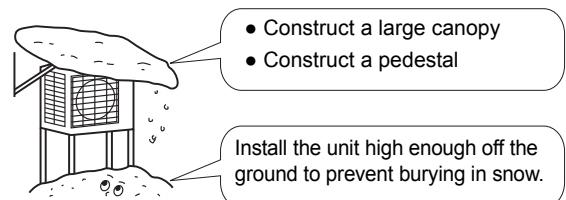
NOTE

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.

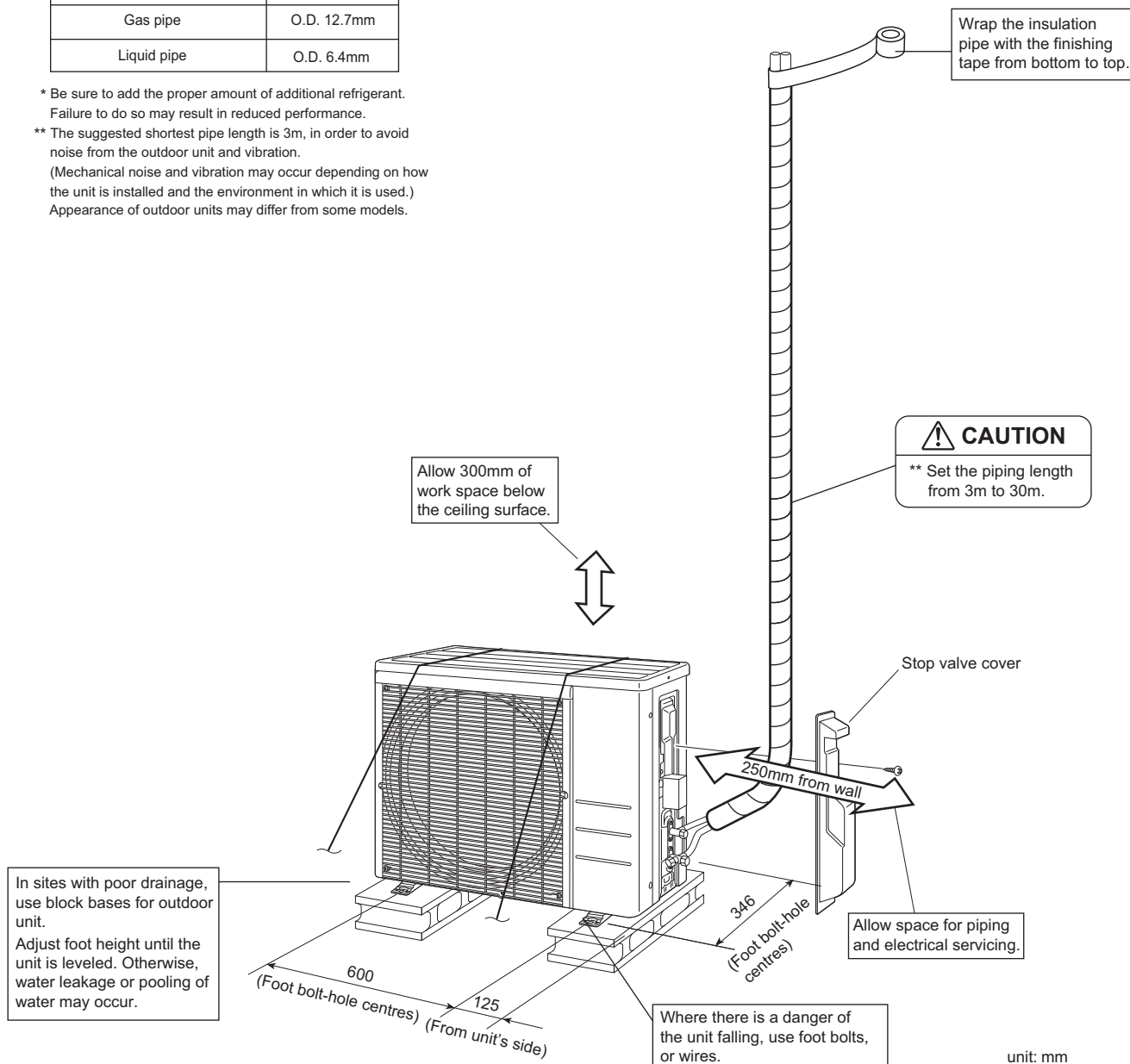


Outdoor Unit Installation Drawings

	Max. allowable piping length	30m
**	Min. allowable piping length	3m
	Max. allowable piping height	20m
*	Additional refrigerant required for refrigerant pipe exceeding 10m in length	20g/m
	Gas pipe	O.D. 12.7mm
	Liquid pipe	O.D. 6.4mm

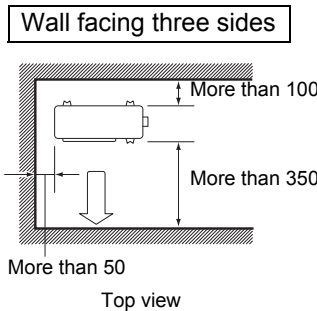
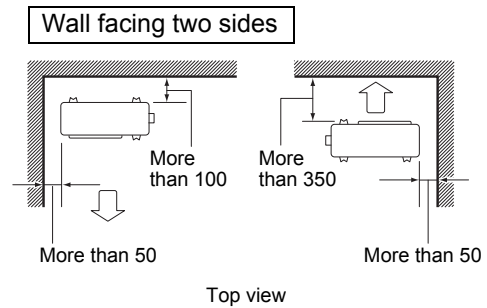
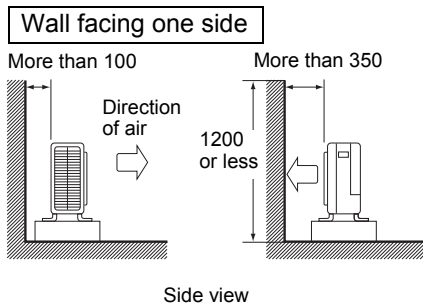
* Be sure to add the proper amount of additional refrigerant.
Failure to do so may result in reduced performance.

** The suggested shortest pipe length is 3m, in order to avoid noise from the outdoor unit and vibration.
(Mechanical noise and vibration may occur depending on how the unit is installed and the environment in which it is used.)
Appearance of outdoor units may differ from some models.



Installation Guidelines

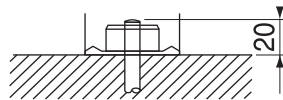
- Where a wall or other obstacle is in the path of outdoor unit's inlet or outlet airflow, follow the installation guidelines below.
- For any of the following installation patterns, the wall height on the outlet side should be 1200mm or less.



unit: mm

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, 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

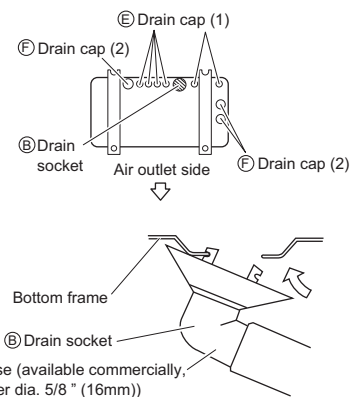
1. Installing outdoor unit

- 1) When installing the outdoor unit, refer to "Precautions for Selecting the Location" and the "Outdoor Unit Installation Drawings."
- 2) If drain work is necessary, follow the procedures below.

2. Drain work (only for heat pump models)

- If the drain port is covered by a mounting base or floor surface, place additional foot bases of at least 1-1/4 inch (30mm) in height under the outdoor unit's feet.
- In cold areas, do not use a drain socket, drain caps (1,2) and a drain hose with the outdoor unit. (Otherwise, the drain water may freeze, impairing heating performance.)

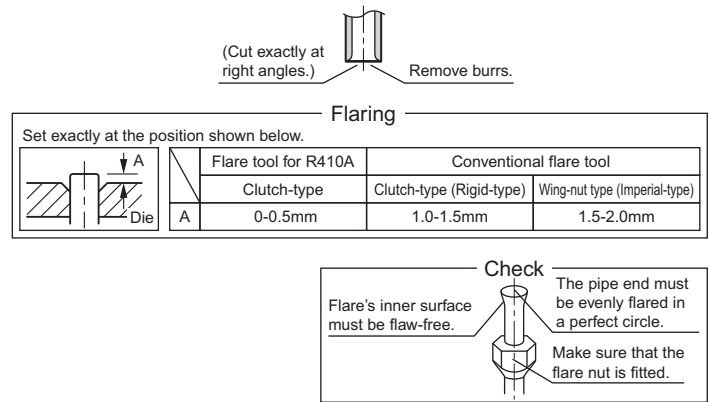
- 1) Attach (E) drain cap (1) and (F) drain cap (2).
- 2) Attach (B) drain socket.



Outdoor Unit Installation

3. 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.



WARNING

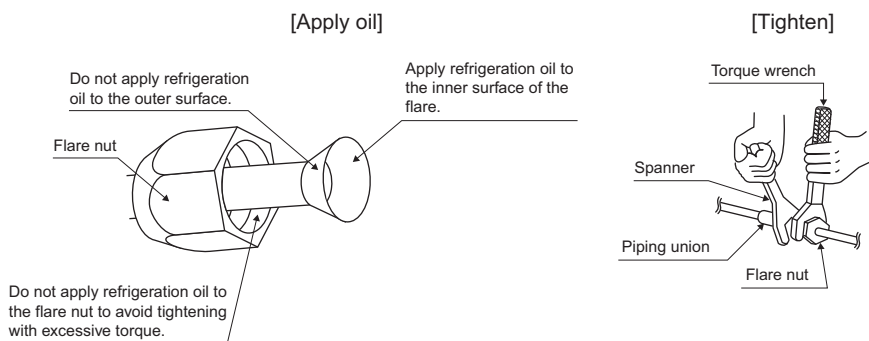
- Do not use mineral oil on flared part.
- Prevent mineral oil from getting into the system as this would reduce the lifetime of the units.
- Never use piping which has been used for previous installations. Only use parts which are delivered with the unit.
- Never install a drier to this R410A unit in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

4. Refrigerant piping

CAUTION

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

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



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

Valve cap tightening torque	
Gas side	Liquid side
1/2 inch	1/4 inch
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)	

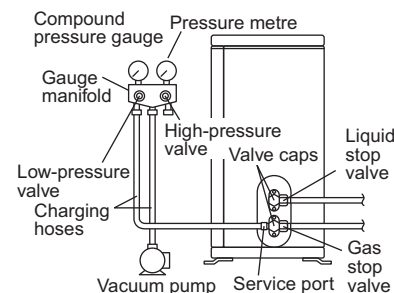
Outdoor Unit Installation

5. Purging air and checking gas leakage

- When piping work is completed, it is necessary to purge the air and check for 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.
 - Use a vacuum pump for R410A exclusively. Using the same vacuum pump for different refrigerants may damage the vacuum pump or the unit.
-
- If using additional refrigerant, perform air purging from the refrigerant pipes and indoor unit using a vacuum pump, then charge additional refrigerant.
 - 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.



- Connect projection side of charging hose (which comes from gauge manifold) to gas stop valve's service port.
- Fully open gauge manifold's low-pressure valve (Lo) and completely close its high-pressure valve (Hi). (High-pressure valve subsequently requires no operation.)
- Do vacuum pumping and make sure that the compound pressure gauge reads -0.1MPa (-76cmHg).^{*1}
- Close gauge manifold's low-pressure valve (Lo) and stop vacuum pump. (Keep this state for a few minutes to make sure that the compound pressure gauge pointer does not swing back.)^{*2}
- Remove caps from liquid stop valve and gas stop valve.
- Turn the liquid stop valve's rod 90 degrees counterclockwise with a hexagonal wrench to open valve. Close it after 5 seconds, and check for gas leakage. Using soapy water, check for gas leakage from indoor unit's flare and outdoor unit's flare and valve rods. After the check is complete, wipe all soapy water off.
- Disconnect charging hose from gas stop valve's service port, then fully open liquid and gas stop valves. (Do not attempt to turn valve rod beyond its stop.)
- Tighten valve caps and service port caps for the liquid and gas stop valves with a torque wrench at the specified torques.

^{*1}. Pipe length vs. vacuum pump run time.

Pipe length	Up to 15m	More than 15m
Run time	Not less than 10 min.	Not less than 15 min.

^{*2}. If the compound pressure gauge pointer swings back, refrigerant may have water content or a loose pipe joint may exist. Check all pipe joints and retighten nuts as needed, then repeat steps 2) through 4).

Outdoor Unit Installation

6. Refilling the refrigerant

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

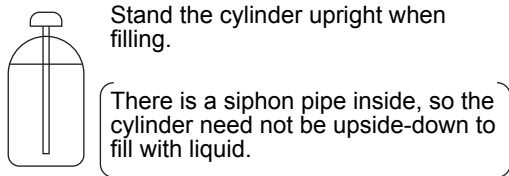
Precautions when adding R410A

Fill from the gas pipe in liquid form.

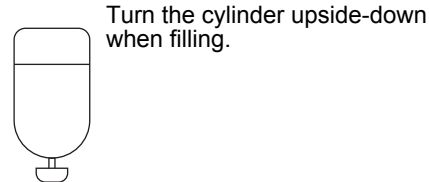
It is a mixed refrigerant, so adding it in gas form may cause the refrigerant composition to change, preventing normal operation.

- 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



Filling other cylinders



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

Important information regarding the refrigerant used

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

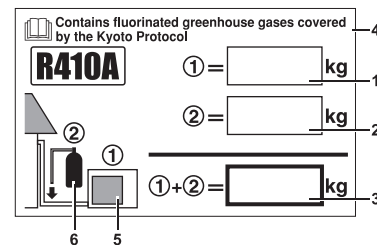
Refrigerant type: **R410A**

GWP⁽¹⁾ value: **2087.5** ⁽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).



- factory refrigerant charge of the product: see unit name plate
- additional refrigerant amount charged in the field
- total refrigerant charge
- Contains fluorinated greenhouse gases covered by the Kyoto Protocol
- outdoor unit
- 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.

7. Refrigerant piping work

7-1 Cautions on pipe handling

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

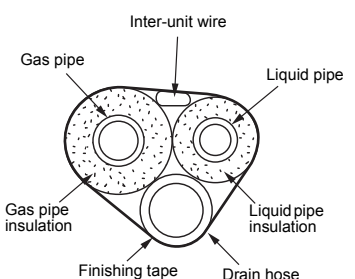
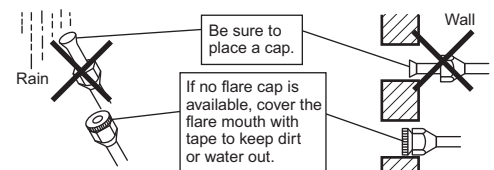
7-2 Selection of copper and heat insulation materials

When using commercial copper pipes and fittings, observe the following:

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

Gas side	Liquid side	Gas pipe thermal insulation	Liquid pipe thermal insulation
O.D. 12.7mm	O.D. 6.4mm	I.D. 14-16mm	I.D. 8-10mm
Minimum bend radius		Thickness 10mm min.	
40mm or more	30mm or more		
Thickness 0.8mm (C1220T-O)			

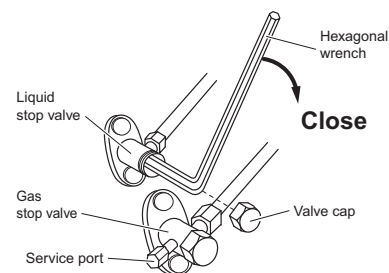
- Use separate thermal insulation for gas and liquid refrigerant pipes.



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 cap from liquid stop valve and gas stop valve.
- 2) Carry out forced cooling operation.
- 3) After 5 to 10 minutes, close the liquid stop valve with a hexagonal wrench.
- 4) After 2 to 3 minutes, close the gas stop valve and stop forced cooling operation.



Forced cooling operation

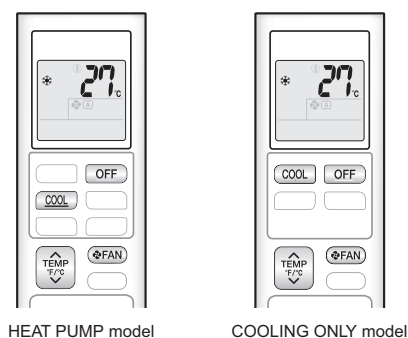
■ Using the indoor unit ON/OFF switch

Press the indoor unit ON/OFF switch for at least 5 seconds. (The operation will start.)

- Forced cooling operation will stop automatically after about 15 minutes.
To stop the operation, press the indoor unit ON/OFF switch.

■ Using the indoor unit's remote controller

- 1) Press , and at the same time.
 - 2) Press , then select , press .
 - 3) Press to turn on the system.
- Forced cooling operation will stop automatically after about 30 minutes.
- To stop the operation, press .



⚠ CAUTION

- When pressing the switch, do not touch the terminal block. It has a high voltage, and touching it could cause electric shock.
- After closing the liquid stop valve, close the gas stop valve within 3 minutes, then stop the forced operation.

Facility Setting (cooling at low outdoor temperature)

This function is designed for facilities such as equipment or computer rooms. It is never to be used in a residence or office where people occupy the space.

- Cutting jumper 6 (J6) on the circuit board will expand the operation range down to -15°C . However it will stop if the outdoor temperature drops below -20°C and start back up once the temperature rises again.
 - 1) Remove the top plate of the outdoor unit. (6 screws)
 - 2) Remove the front plate. (8 screws)
 - 3) Cut the jumper (J6) of the PCB inside.

⚠ CAUTION

- If the outdoor unit is installed where the heat exchanger of the unit is exposed to direct wind, provide a windbreak wall.
- Intermittent noises may be produced by the indoor unit due to the outdoor fan turning on and off when using facility settings.
- Do not place humidifiers or other items which might raise the humidity in rooms where facility settings are being used.
A humidifier might cause dew condensation from the indoor unit outlet vent.
- Cutting jumper 6 (J6) sets the indoor fan tap to the highest position. Notify the user about this.

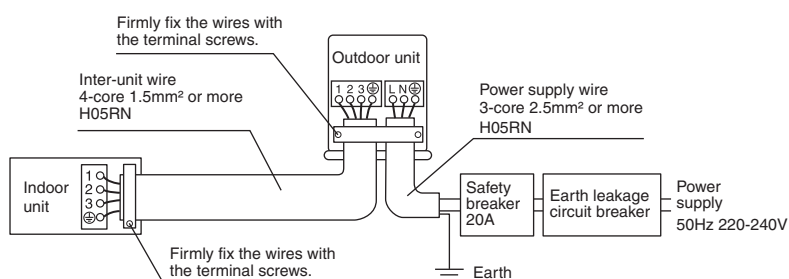
Wiring

⚠ WARNING

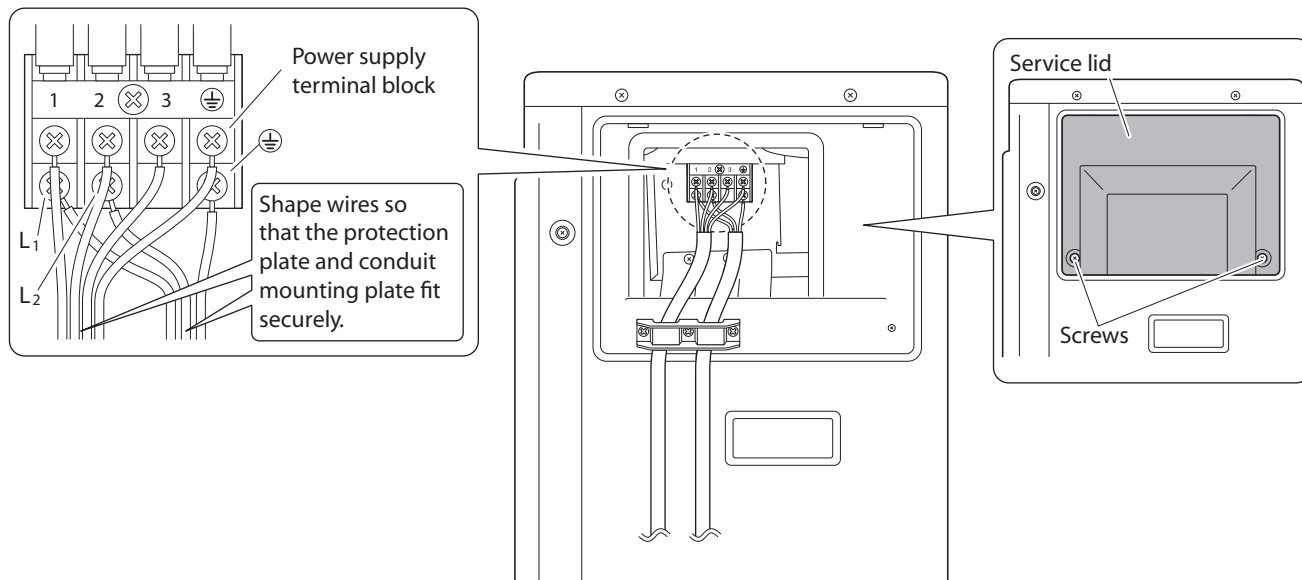
- Do not use tapped wires, stranded wires, extension cords, or starburst connections, as they may cause overheating, electrical shock, or fire.
- Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so may cause electric shock or fire.
- Be sure to install an earth leak detector. (One that can handle higher harmonics.)
(This unit uses an inverter, which means that it must be used an earth leak detector capable handling harmonics in order to prevent malfunctioning of the earth leak detector 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.

- Equipment complying with EN/IEC 61000-3-12⁽¹⁾
- 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 wire 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.



Appearance of outdoor units may differ from some models.



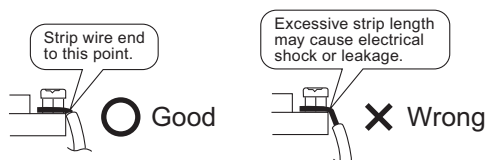
Observe the notes mentioned below when wiring to the power supply terminal block.
Precautions to be taken for power supply wiring.

⁽¹⁾ European/International Technical Standard setting the limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤75 A per phase.

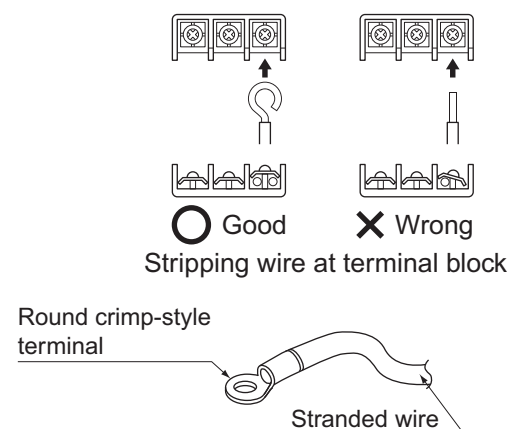
Wiring

CAUTION

- When connecting the wires 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.



- Pull the wire and make sure that it does not disconnect. Then fix the wire in place with a wire stop.

Wiring diagram

	: Terminal strip		: Field wiring
	: Connector		: Relay connector
	: Connection		: Terminal
BLK	: Black	ORG	: Orange
BLU	: Blue	RED	: Red
BRN	: Brown	WHT	: White
GRN	: Green	YLW	: Yellow

Notes

Refer to the nameplate of the unit for power requirements.

TO INDOOR UNIT	: To indoor unit
POWER SUPPLY	: Power supply
IN CASE OF COOLING ONLY TYPE	: In case of cooling only type
OUTDOOR	: Outdoor
CONDENSER	: Condenser
DISCHARGE	: Discharge

Wiring diagram parts table

C7	Capacitor	PS	Switching power supply
D1,D2.....	Diode	Q1L	Overload protector
DB1.....	Diode bridge	R1T,R2T,R3T	Thermistor
E1,E2,HL1,HN1,S..	Connection	S20,S40,S70,S80,	
FU1,FU2,FU3	Fuse	S90,X11A	Connector
IPM1	Intelligent power module	SA1	Surge absorber
L.....	Live	V1,V2,V3.....	Varistor
M1C	Compressor motor	X1M.....	Terminal strip
M1F.....	Fan motor	Y1E	Electronic expansion valve coil
MRM10,MRM20,		Y1S	Reversing solenoid valve
MR30,MRCW.....	Magnetic relay	Z1C,Z2C,Z3C.....	Noise filter (ferrite core)
N	Neutral	ZF.....	Noise filter
PAM	Pulse amplitude modulation		Protective earth
PCB	Printed circuit board		Earth

Trial Operation and Testing

1. Trial operation and testing

- Trial operation should be carried out in either COOL or HEAT operation.

1-1 Measure the supply voltage and make sure that it falls in the specified range.

**1-2 In COOL operation, select the lowest programmable temperature;
in HEAT operation, select the highest programmable temperature.**

1-3 Carry out the trial operation in accordance with the operation manual to ensure that all functions and parts, such as flap movement, are working properly.

- For protection, the system disables restart operation for 3 minutes after it is turned off.

1-4 After trial operation is complete, set the temperature to a normal level (26°C to 28°C) in COOL operation, (20°C to 24°C) in HEAT operation.

- When operating the air conditioner in COOL operation in winter, or HEAT operation in summer, set it to the trial operation mode using the following method.

1) Press  ,  and  at the same time.

2) Press  , then select  , press  .

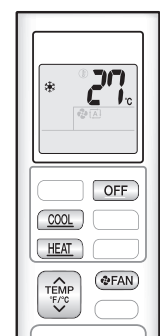
3) Press  or  to turn on the system.

- Trial operation will stop automatically after about 30 minutes.

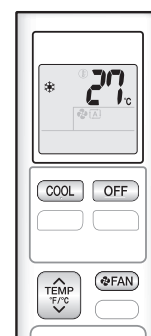
To stop the operation, press  .

- Some of the functions cannot be used in the trial operation mode.

- The air conditioner draws a small amount of power in its standby mode. If the system is not to be used for some time after installation, shut off the circuit breaker to eliminate unnecessary power consumption.
- If the circuit breaker trips to shut off the power to the air conditioner, the system will restore the original operation mode when the circuit breaker is opened again.



HEAT PUMP model



COOLING ONLY model

2. Test items

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

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