

INSTALLATION MANUAL

R410A Split Series





Models	
FLXS25BVMB	FLKS25BVMB
FLXS35BVMB	FLKS35BVMB
FLXS50BVMB	FLKS50BVMB
FLXS60BVMB	FLKS60BVMB
FLX25BVMB	FLK25BVMB
FLX35BVMB	FLK35BVMB
FLXS25BAVMB	FLKS25BAVMB
FLXS35BAVMB	FLKS35BAVMB
FLXS50BAVMB	FLKS50BAVMB
FLXS60BAVMB	FLKS60BAVMB

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

Σ ΗΣΩΛΗΣ - Э	
CE - DICHIARAZ	E - KONFORMITÄTSERKLÄRUNG
CE - DECLARAC	E - DECLARATION-OF-CONFORMITY

CION-DE-CONFORMIDAD ZIONE-DI-CONFORMITA ΣΥΜΜΟΡΦΩΣΗΣ

CE - DECLARAÇÃO-DE-CONFORMIDADE CE - 3ARBJIEHNE-O-COOTBETCTBINI CE - OPFYLDELSESERKLÆRING CE - FÖRSÄKRAN-OM-ÖVERENSTÄMMELSE

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

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

CE - IZJAVA O SKLADNOSTI CE - VASTAVUSDEKLARATSIOON CE - QEKJAPALINR-3A-CbOTBETCTBNE

CE - ATITIKTIES-DEKLARACIJA CE - ATBILSTIBAS-DEKLARĀCIJA CE - VYHLÅSENIE-ZHODY CE - UYUMLULUK-BILDĪRĪSİ

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 0. erklärt auf sieme alleninge Verarthwortung daß die Modelle der Kilmägeräte für die diese. Erklärung bestimmt ist:
 0. Everklaart hierbij op eigen exotusiene verantwoordelijkheid dat de aircoorditioning units waarop daze verklaring betrekking heeft:
 0. Werklaart hierbij op eigen exotusiene verantwoordelijkheid dat de aircoorditioning units waarop daze verklaring betrekking heeft:
 0. Go dichara sotto sua responsabilitä due les modelos de aire aconditioning units waarop daze verklaring betrekking heeft:
 0. Go dichara sotto sua responsabilitä due los modelos de aire acondicionato in modelo a so alei alterazione.
 0. Go folkinar sotto sua responsabilitä dati on avuoratoria ruw kuurantruwi vuoseukui van onido novegato are interventi.
 0. Bo fulvise ja sotto sua responsabilitä de que os modelos de aire acondicionado a que esta dicharazion:
 0. Bo fulvise ja monkatorina rup cuelto ruw kuurantrukwi vuoseukui van onido novegato se refere.
 0. Bo fulvise ja sotta sota sua exclusiva responsabilidade que os modelos de ar condicionado a que esta declarazáos er refere.
 0. Bo fulvise ja monkator na cavo orteroreneorot. vro noteneor de ar condicionado a que esta declarazáos er refere. 01 (a) declares under its sole responsibility that the air conditioning models to which this declar ation relates:

FLKS26BVMB, FLKS35BVMB, FLXS25BVMB, FLXS35BVMB, FLK25BVMB, FLK35BVMB, FLX25BVMB, FLX25BVMB, FLX25BVMB, FLX25BVMB, FLXS50BVMB, FLKS25BAVMB, FLKS25BAVMB, FLKS35BAVMB, FLKS35BAVMB, FLXS35BAVMB, FLXS35BAVMB, FLXS35BAVMB, FLXS40BAVMB

 Stater under eneansrar, at klimaanlægmodellerne, som denne deklaration vedrører:
 Stater er i egenskap av huvudansrarig, att luftkondritoneringsmodellerna som berörs av denna deklaration innebär att:
 Stater et fullstendig ansvar for at de luftkondisjoneringsmodeller som berørse av denne deklaration innebär att:
 Stater et fullstendig ansvar for at de luftkondisjoneringsmodeller som berørse av denne deklaration innebär att:
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 Stater et fullstendig ansvar for at de luftkondisjoneringsmodeller som berørse av denne deklarasjon innebærer at: 16 (F) teljes felelőssége tudatában kijelenti, hogy a klímaberendezés modellek, melyekre e nyilatkozat vonatkozik: 15 🖽 izjavljuje pod isključivo vlastitom odgovornošću da su modeli klima uređaja na koje se ova izjava odnosi: 14 📾 prohlašuje ve své plné odpovědnosti, že modely klimatizace, k nimž se toto prohlášení vztahuje:

18 (n) declară pe proprie răspundere că aparatele de aer condiționat la care se referă această declarație:

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

- 19 🐵 z vso odgovornostjo izjavlja, da so modeli klimatskih naprav, na katere se izjava nanaša:
- Wimitab oma täjelikul vasututusel, et käesoleva dektaratsiooni alla kuuluvad kliimaseadmete mudelid:
 Qi @i paknapkipa ha ceon orrosophocr, ve моделите климатична инсталация, за които се отнася таки декпарация:

 - 22 (E) visiška savo atsakomybe skelbia, kad oro kondicionavimo prietaisų modeliai, kuriems yra taikoma ši deklaracija:
 - 23 co ar pilnu atblidfuu apliecine, ka täläk uzskaitti noofelu gaisa kondiciontelliji uz kuriem attiecza ši deklarăcija. 24 co vhlasuje na vlastnú zodpovednosť, že tielo klimalitzárie modely, na ktoré sa vztahuje toto vyhlásenie.
- 25 🖽 tamamen kendi sorumluluğunda olmak üzere bu bildirinin ilgili olduğu klima modellerinin aşağıdaki gibi olduğunu beyan eder:

09 соответствуют следующим стандартам или другим нормативным документам, при условии их использования согласно нашим 10 overholder følgende standard(er) eller andet/andre retningsgivende dokument(er), forudsat at disse anvendes i henhold til vore

acordo com as nossas instruções:

инструкциям instrukser:

08 estão em conformidade com a(s) seguinte(s) norma(s) ou outro(s) documento(s) normativo(s), desde que estes sejam utilizados de 01 are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our nstructions

02 deriden 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 normels) ou autre(s) document(s) normatif(s), pour autant qu'ils solent utilisés conformément à nos instructions: 04 conform de volgende norm(en) of één of meer andere bindende documenten zijn, op voorwaarde dat ze worden gebruikt overeenkomstig

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

nuestras instrucciones:

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

Τ είναι σύμφωνα με τοίοι ακόλουθοίο) πρότυποία) ή άλλο έγγραφοία) κανονισμών, υπό την προυπόθεση ότι χαησιμοποιούνται σύμφωνα με τις οδηγίες μας: nostre istruzioni:

EN60335-2-40

όπως καθορίζεται στο <a> και κρίνετα	Σημείωση *	rt und von positiv 01	wie in der <a> aufgefüh	Hinweis *	8
delineato nel ≺A> e giudicato positivame da ≺B> secondo il Certificato <c> .</c>	Nota *	dged positively by 06 cate <c>.</c>	as set out in <a> and juc according to the Certific	Note *	5
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	ami Dyrektyw:	17 zgodnie z postanowien	im o previsto em:	de acordo co	8
25 bunun koşullarına uygun olar.		16 követi a(z):	ων διατάξεων των:	ווג דוומחק ד	6
24 održiavajúc ustanovenia:		15 prema odredbama:	rescrizioni per:	i secondo le pi	8
23 ievērojot prasības, kas noteik	předpisu:	14 za dodržení ustanoven	s disposiciones de:	i siguiendo las	8
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21 следвайки клаузите на:	nelsene i:	12 gitt i henhold til bestem	nt aux stipulations des:	conformémer	ខ
20 vastavalt nõuetele:		11 enligt villkoren i:	/orschriften der:	gemäß den V	8
19 ob upoštevanju določb:	temmelserne i:	10 under iagttagelse af be	provisions of:	following the	5

5	alon	as set out in <a> and judged positively by 	8	- BION	da secondo il Certificato <c> .</c>
8	Hinweis *	wie in der <a> aufgeführt und von positiv beurteilt gemäß Zerlifikat <c>.</c>	20	Σημείωση *	όπως καθορίζεται στο < A> και κρίνετ από το < B> σύμφωνα με το Πιστοπ ο
8	Remarque *	tel que défini dans <a> et évalué positivement par conformément au Certificat <c> .</c>	8	Nota *	tal como estabelecido em <a> e com positivo de de acordo com o Cer
2	Bemerk *	zoals vermeld in <a> en positief beoordeeld door overeenkomstig Certificaat <c> .</c>	6	Примечание *	как указано в <a> и в соответствии положительным решением сол
33	Nota *	como se establece en <a> y es valorado positivamente por de acuerdo con el Certificado <c>.</c>	우	Bemærk *	CBNDRETENDSTERY <c>. som anført i <a> og positivt vurderet a henhold til Certifikat <c> .</c></c>

12 respektive utstyr er i overensstemmelse med følgende standard(er) eller andre normgivende dokument(er), under forutssetning av at förutsättning att användning sker i överensstämmelse med våra instruktioner: disse brukes i henhold til våre instrukser: 13 vastaavat seuraavien standardien ja muiden ohjeellisten dokumenttien vaatimuksia edellyttäen, että niitä käytetään ohjeidemme mukaisesti:

14 za předokladu, že jsou využivány v souladu s našími pokymy, odpovídají následujícím normám nebo normativním dokumentům: 15 u skladu sa slijedečím standardom(ima) ili drugím normativním dokumentom(ima), uz vvjet da se oni koriste u skladu s naším uputama:

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

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

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

21 съответстват на следните стандарти или други нормативни документи, при условие, че се използват съгласно нашите 20 on vastavuses järgmis(t)e standardi(te)ga või teiste normatiivsete dokumentidega, kui neid kasutatakse vastavalt meie juhenditele: 11 respektive utrustning är utförd i överensstämmelse med och följer följande standard(er) eller andra normgivande dokument, under

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

24 sú v zhode s nasledovnou(ými) normou(ami) alebo iným(i) normatívnym(i) dokumentom(ami), za predpokladu, že sa používajú v súlade 23 tad. ja lietoti atbilstoši ražotāja norādījumiem, atbilst sekojošiem standartiem un citiem normatīviem dokumentiem: s našim návodom:

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

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age 2006/95 lity 2004/106	16 Megjegyzés [*]	17 Uwaga *	18 Notă*	19 Opomba*	20 Märkus *		
Low Volt Electromagnetic Compatibil	enligt <a> och godkäntsav enligt Certifikatet <c> .</c>	som det fremkommer i <a> og gjennom positiv bedømmelse av itølge Sertifikat <c> .</c>	jotka on esitetty asiakirjassa <a> ja jotka on hyväksynyt Sertifikaatin <c> mukaisesti.</c>	jak bylo uvedeno v <a> a pozitivně zjištěno v	kako je izloženo u <a> i pozitivno odijenjeno od	strane ds> prema cerunkatu <c>.</c>	
	11 Information *	12 Merk *	13 Huom *	14 Poznámka *	15 Napomena *		
ju določb: lelek: staru, paterkiamu; staru, paterkiamu; starovenia; arina uygun olarak;	iudicato positivamente srtificato <c>.</c>	ο <a> και κρίνεται θετικά α με το Πιστοποιητικό <c> .</c>	o em <a> e com o parecer cordo com o Certificado <c>.</c>		Dennem SD contacho >.	positivi vurueret al Sor I SC> .	

DAIKIN

Manager Quality Control Department

Shinri Sada

1st. of Nov. 2008

3-Minri-Sada

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

3SB64526-4

Safety Precautions

- Read these Safety Precautions carefully to ensure correct installation.
- This manual classifies the precautions into WARNING and CAUTION.
- Be sure to follow all the precautions below: they are all important for ensuring safety.

· The following safety symbols are used throughout this manual:



Be sure to observe this instruction.

Be sure to establish an earth connection.

Never attempt.

 After completing installation, test the unit to check for installation errors. Give the user adequate instructions concerning the use and cleaning of the unit according to the Operation Manual.

<u> MARNING</u>
 Installation should be left to the dealer or another professional. Improper installation may cause water leakage, electrical shock, or fire.
 Install the air conditioner according to the instructions given in this manual. Incomplete installation may cause water leakage, electrical shock, or fire.
 Be sure to use the supplied or specified installation parts. Use of other parts may cause the unit to come to lose, water leakage, electrical shock, or fire.
 Install the air conditioner on a solid base that can support the weight of the unit. An inadequate base or incomplete installation may cause injury in the event the unit falls off the base.
 Electrical work should be carried out in accordance with the installation manual and the national electrical wiring rules or code of practice. Insufficient capacity or incomplete electrical work may cause electrical shock or fire
Be sure to use a dedicated power circuit. Never use a power supply shared by another appliance.
 For wiring, use a cable length enough to cover the entire distance with no connection. Do not use an extension cord. Do not put other loads on the power supply, use a dedicated power circuit. (Failure to do so may cause abnormal heat, electric shock or fire.)
 Use the specified types of wires for electrical connections between the indoor and outdoor units. Firmly clamp the interconnecting wires so their terminals receive no external stresses. Incomplete connections or clamping may cause terminal overheating or fire.
• After connecting interconnecting and supply wiring be sure to shape the cables so that they do not put undue force
On the electrical covers of panels.
If any refrigerant has leaked out during the installation work, ventilate the room. (The refrigerant produces a toxic gas if exposed to flames.)
After all installation is complete, check to make sure that no refrigerant is leaking out. (The refrigerant produces a toxic gas if exposed to flames.)
 When installing or relocating the system, be sure to keep the refrigerant circuit free from substances other than the specified refrigerant (R410A), such as air. (Any presence of air or other foreign substance in the refrigerant circuit causes an abnormal pressure rise or rupture, resulting in 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 freezer cycle which will lead to breakage and even injury.
 During installation, attach the refrigerant piping securely before running the compressor. If the compressor is not attached and the stop valve is open during pump-down, air will be sucked in when the compressor is run, causing abnormal pressure in the freezer cycle which will lead to breakage and even injury.
• Be sure to establish an earth. Do not earth the unit to a utility pipe, arrester, or telephone earth. Incomplete earth may cause electrical shock, or fire. A high surge current from lightning or other sources may cause damage to the air conditioner.
Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks, or fire.

• Do not install the air conditioner in a place where there is danger of exposure to inflammable gas leakage. If the gas leaks and builds up around the unit, it may catch fire.

 Establish drain piping according to the instructions of this manual. Inadequate piping may cause flooding.

• Tighten the flare nut according to the specified method such as with a torque wrench. If the flare nut is tightened too hard, the flare nut may crack after a long time and cause refrigerant leakage.

Accessories

Indoor unit A - Q

A Mounting plate	1	G AAA dry-cell batteries	2	N Heat insulation tube (Extension auxiliary pipe)	1
B Photocatalytic deodorizing filter	1	(J) Side covers	2	 P Heat insulation tube (Refrigerant pipe) 	1
C Air purifying filter	1	K Operation manual	1	Binding bands	4
D Wireless remote controller	1	Installation manual	1		
E Remote controller holder	1	M Extension auxiliary pipe	2		

• The extension auxiliary pipe (M) (N) is not included for FLX(S)25, FLX(S)35, FLK(S)25 and FLK(S)35.

Choosing an Installation Site

• Before choosing the installation site, obtain user approval.

1. Indoor unit.

- · The indoor unit should be sited in a place where:
 - 1) the restrictions on installation specified in the indoor unit installation drawings are met,
 - 2) both air intake and exhaust have clear paths met,
 - 3) the unit is not in the path of direct sunlight,
 - 4) the unit is away from the source of heat or steam,
 - 5) there is no source of machine oil vapour (this may shorten indoor unit life),
 - 6) cool air is circulated throughout the room,
 - 7) the unit is away from electronic ignition type fluorescent lamps (inverter or rapid start type) as they may shorten the remote control range,
 - 8) the unit is at least 1 metre away from any television or radio set (unit may cause interference with the picture or sound).

2. Wireless remote controller.

1) Turn on all the fluorescent lamps in the room, if any, and find the site where remote control signals are properly received by the indoor unit (within 7 metres).

Before Installing the Indoor Unit

1. Perform the following before installing the indoor unit.

- 1) Open the air inlet grille and the screw cover, and remove the 7 screws.
- 2) Release the claws in the 3 places indicated.
- 3) Release the center hook and remove the front panel.4) Release the claws in the 2 places indicated and remove
 - the electric component cover.



Installation Tips

1. How to the different addresses.

- 1) When two indoor units installed in one room, the two wireless remote controllers can be set for different addresses.
- 2) Remove the electric component cover. (Refer to the **BEFORE INSTALLING THE INDOOR UNIT**.)
- 3) Cut the jumper JA on PCB. Wireless remote controller
- 4) Cut the jumper J4.

2. In case of ceiling suspended use.

1) Slide the switch(SW2) to "CEILING" in case of installing on the ceiling.





Indoor Unit Installation Drawings



Indoor Unit Installation Drawings

1. Ceiling mounting.



Indoor Unit Installation

Ceiling Mounting

1. Installing the suspension bolt.

1) Install the suspension bolt so that it can support the indoor unit; adjust distance to ceiling before installation.

2) Mount the indoor unit according to the installation drawings and tighten it securely with M10 nut. (4 places)





• Incline condition for installation





2. Installing indoor unit.

1) Connect the extension auxiliary pipe (M, supplied) to the local piping. (See 1 on the next page)

(Applies to both ceiling mounting and wall mounting units.)

2) Prepare the local piping at the connection point for the drain pipe, as shown in the installation drawings.

Note:Be sure to place the drain hose as shown in the diagram on the right, in a downward sloping direction.

Connect the drain hose to the local drain pipe.
 Position the interconnecting wire in the same direction as the piping.



• Feed-through portion of drain hose

For determining the position of the drain hose, perform the following procedures.





Indoor Unit Installation

Wall Mounting

3. Installation.

- Install the indoor unit on the wall according to the installation drawings.
- 1) Hang the indoor unit on the hooks of mounting plate. (2 places)
- 2) Fix the three holes in the lower portion of the indoor unit with M4 \times 25L screws.



- Work should be performed to match the direction of the piping, as the extension auxiliary pipe (M, supplied) and installation methods vary depending on the direction the piping is brought out.
- Select the extension auxiliary pipe in accordance with the direction of the piping. (This should be done without the included piping for wall-mounted right-back piping and ceiling-mounted upper right-side piping.)
- 2) Attach the heat insulation tube (N) to the extension auxiliary pipe. (Make sure there are no gaps.)
- 3) Attach the extension auxiliary pipe to the product.



pipina

4. Installing indoor unit.

- 1) Connect the extension auxiliary pipe ((M), supplied) to the local piping.
 - (Applies to both ceiling mounting and wall mounting units.)
- 2) Prepare the local piping at the connection point for the drain pipe, as shown in the installation drawings.
- Connect the drain hose to the local drain pipe.
 Position the interconnecting wire in the same direction as the piping.



Commonality Between Ceiling Mounting and Wall Mounting

With a Multi indoor unit, install as described in the installation manual supplied with the Multi outdoor unit.

5. Wiring.

- 1) Strip wire ends (15mm).
- 2) Match wire colours with terminal numbers on indoor and outdoor unit's terminal blocks and firmly screw wires to the corresponding terminals.
- 3) Connect the earth wires to the corresponding terminals.
- 4) Pull wires to make sure that they are securely latched up, then retain wires with wire retainer.
- 5) In case of connecting to an adapter system. Run the remote control cable and attach the S21 connector as the illustration on the right.
- 6) Shape the wires so that the service lid fits securely, then close service lid.



▲ Warning

- 1) Do not use tapped wires, stand wires, extensioncords, 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.

Indoor Unit Installation

6. Insulation of refrigerant pipes.

After checking for refrigerant leaks

- Joints in liquid pipe and the gas pipe must be insulated with \bigcirc heat insulation tube attached with \bigcirc binding bands.
 - Cut (P) heat insulation tube to appropriate length.



7. Drain piping.

1) Connect the drain hose, as described below.



Ceiling mounting

Wall mounting

2) Pour water into the drain pan from the right side to check that water flows smoothly from the drain hose.



Ceiling mounting



3) When drain hose requires extension, obtain an extension hose commercially available.

After connecting the local drain hose, tape the slits of the heat insulation tube.



Refrigerant Piping Work

With a Multi indoor unit, install as described in the installation manual supplied with the Multi outdoor unit.

1. Flaring the pipe end.

- 1) Cut the pipe end with a pipe cutter.
- 2) Remove burrs with the cut surface facing down-
- ward 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

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

2. Refrigerant piping.

▲ Caution

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

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



Flare nut tightening torque				
Gas	side	Liquid side		
3/8 inch	3/8 inch 1/2 inch			
32.7-39.9N • m	49.5-60.3N • m	14.2-17.2N • m		
(333-407kgf • cm)	(505-615kgf • cm)	(144-175kgf • cm)		

2-1. Caution on Piping Handling

- 1) 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.



Refrigerant Piping Work

2-2. 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.



2) Be sure to insulate both the gas and liquid piping and to provide insulation dimensions as below.

Gas	side		Gas pipe ther	mal insulation	Liquid pipe
20/25/35 class	50/60 class	Liquid side	20/25/35 class	50/60 class	thermal insulation
O.D. 9.5mm	O.D. 12.7mm	O.D. 6.4mm	I.D. 12-15mm	I.D. 14-16mm	I.D. 8-10mm
Minimum bend radius		Th	ickness 10mm N	lin.	
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.

Trial Operation and Testing

1. Trial operation and testing.

- 1-1 Measure the supply voltage and make sure that it falls in the specified range.
- 1-2 Trial operation should be carried out in either cooling or heating mode.
- For Heat pump
- In cooling mode, select the lowest programmable temperature; in heating mode, select the highest programmable temperature.
 - 1) Trial operation may be disabled in either mode depending on the room temperature.
 - Use the remote control for trial operation as described below.
 - 2) After trial operation is complete, set the temperature to a normal level (26°C to 28°C in cooling mode, 20°C to 24°C in heating mode).
 - 3) For protection, the system disables restart operation for 3 minutes after it is turned off.

For Cooling only

- Select the lowest programmable temperature.
 - 1) Trial operation in cooling mode may be disabled depending on the room temperature. Use the remote control for trial operation as described below.
 - 2) After trial operation is complete, set the temperature to a normal level (26°C to 28°C).
 - 3) For protection, the unit disables restart operation for 3 minutes after it is turned off.
- 1-3 Carry out the test operation in accordance with the Operation Manual to ensure that all functions and parts, such as louver movement, are working properly.
 - The air conditioner requires 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.

Trial Operation from Remote Controller

- 1) Press ON/OFF button to turn on the system.
- 2) Simultaneously press centor of TEMP button and MODE button.
- 3) Press MODE button twice.
 - (" 7" " will appear on the display to indicate that Trial Operation mode is selected.)
- 4) Trial run mode terminates in approx. 30 minutes and switches into normal mode. To quit a trial operation, press ON/OFF button.

2. Test items.

Test Items	Symptom (diagnostic display on RC)	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 interconnecting wire connections.	Inoperative or burn damage	
Indoor or outdoor unit's air intake or exhaust has clear path of air. Stop valves are opened.	Incomplete cooling/heating function	
Indoor unit properly receives remote control commands.	Inoperative	

DAIKIN INDUSTRIES, LTD.

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

Tokyo office: JR Shinagawa East Bldg., 2-18-1, Konan, Minato-ku, Tokyo, 108-0075 Japan http://www.daikin.com/global_ac/



Zandvoordestraat 300, B-8400 Oostende, Belgium



Two-dimensional bar code is a code for manufacturing.