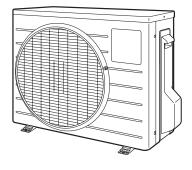


INSTALLATION MANUAL

R410A Split Series





Models RX20J3V1B RX25J3V1B RX35J3V1B

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

DAIKIN INDUSTRIES CZECH REPUBLIC s.r.o.

01 (a) declares under its sole responsibility that the air conditioning models to which this declaration relates:

- 02 💿 erklärt auf seine alleinige Verantwortung daß die Modelle der Klimageräte für die diese Erklärung bestimmt ist:
- 03 🕞 déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclar ation:
- 04 🛞 verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft:
- 05 📧 declara baja su única responsabilidad que los modelos de aire acondicionado a los cuales hace referencia la declaración:
- 06 🕕 dichiara sotto sua responsabilità che i condizionatori modello a cui è riferita questa dichiarazione:
- 07 🐵 δηλώνει με αποκλειστική της ευθύνη ότι τα μοντέλα των κλιματιστικών συσκευών στα οποία αναφέρεται η παρούσα δήλωση: 08 🕑 declara sob sua exclusiva responsabilidade que os modelos de ar condicionado a que esta declaração se refere:

CE - DECLARACION-DE-CONFORMIDAD

CE - DICHIARAZIONE-DI-CONFORMITA

О селата зов заа ехснозіча тезропзавлівацие que оз пісцено се аї сопліснопаци a que езга целата цадо за тетете.
 О9 (ком заявляет, исключительно под свою ответственность, что модели кондиционеров воздуха, к которым относится настоящее заявление

RX20J3V1B, RX25J3V1B, RX35J3V1B, ARX20J3V1B, ARX25J3V1B, ARX35J3V1B

10 000 erklærer under eneansvar, at klimaanlægmodellerne, som denne deklaration vedrører

CE - DECLARACÃO-DE-CONFORMIDADE

CE - FÖRSÄKRAN-OM-ÖVERENSTÄMMELSE

СЕ - ЗАЯВЛЕНИЕ-О-СООТВЕТСТВИИ

CE - OPFYLDELSESERKLÆRING

CE - ILMOITUS-YHDENMUKAISUUDESTA CE - PROHLÁŠENÍ-O-SHODĚ

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 (m) ilmoittaa yksinomaan omalla vastuullaan, että tämän ilmoituksen tarkoittamat ilmastointilaitteiden mallit:

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

16 (1) teljes felelőssége tudatában kijelenti, hogy a klímaberendezés modellek, melyekre e nyilatkozat vonatkozik:

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

14 cz) prohlašuje ve své plné odpovědnosti, že modely klimatizace, k nimž se toto prohlášení vztahuje:

18 no declară pe proprie răspundere că aparatele de aer conditionat la care se referă această declarație:

CE - ERKLÆRING OM-SAMSVAR

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 - UYUMLULUK-BİLDİRİSİ

19 🐵 z vso odgovornostjo izjavlja, da so modeli klimatskih naprav, na katere se izjava nanaša:

- 20
 m kinnitab oma täielikul vastutusel, et käesoleva deklaratsiooni alla kuuluvad kliimaseadmete mudelid:
- 21 🐵 декларира на своя отговорност, че моделите климатична инсталация, за които се отнася тази декларация:
- 22 🗊 visiška savo atsakomybe skelbia, kad oro kondicionavimo prietaisų modeliai, kuriems yra taikoma ši deklaracija:
- 23 🕑 ar pilnu atbildību apliecina, ka tālāk uzskaitīto modeļu gaisa kondicionētāji, uz kuriem attiecas šī deklarācija:
- 24 (K) vyhlasuje na vlastnú zodpovednosť, že tieto klimatizačné modely, na ktoré sa vzťahuje toto vyhlásenie:
- 25 🔞 tamamen kendi sorumluluğunda olmak üzere bu bildirinin ilgili olduğu klima modellerinin aşağıdaki gibi olduğunu beyan eder:

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: 64 conform de volgende norm(en) of één of meer andere bindende documenten zijn, op voorwaarde dat ze worden gebruikt overeenkomstig norze 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 forutssetning 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 normativním 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 sperinaja wymogi następujących norm i innych dokumentów normalizacyjnych, pod warunkiem że używane są zgodnie z naszymi instrukriami

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

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 новитивни 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:

23 tad, ja lietou atolistosi razotaja noradijumiem, atolist sekojoslem standartiem un cliem normativiem 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,

04 overeenkoms 05 siguiendo las 06 secondo le pi 07 με τήρηση τι 08 de acordo co	/orschriften der: nt aux stipulations des: stig de bepalingen van: ; disposiciones de:	11 enligt villkoren i: 12 gitt i henhold til t 13 noudattaen mää 14 za dodrženi usta 15 prema odredban 16 követi a(z):	vestemmelsene i: räyksiä: novení předpisu: na: nowieniami Dyrektyw:	20 vaslavalt nõuetele: 21 onegaaikki knaysinre ka: 22 laikantis nuostatu, pateikiamu: 23 ievärojot prasības, kas noteiktas: 24 odžiavajio usanarovenia: 25 bunun koşullarına uygun olarak:		Low Vol Electromagnetic Compatib	ltage 2006/9 ility 2004/10	5/EC 03 Directives, i B/EC * 04 Richtlijnen, 05 Directives, i 06 Direttive, cc 07 Ošrytviv, 08 Directivas, i	as amended. gemäß Änderung. telles que modifiées. zoals geamendeerd. según lo enmendado. med a modifica. писк ёхоиv тропопои conforme alteração em. хо всеми поправками.		r. ər. nuutettuina. Ielkezéseit.	 19 Direktive z vsemi spremembami. 20 Direktivid koos muudatustega. 21 Директиви, с техните изменения. 22 Direktyvose su papidymais. 23 Direktivas un to papidinājumos. 24 Smemica, v platnom zneni. 25 Deģiştrilmiş halleriyle Yönetmelikler.
01 Note *	as set out in <a> and judge according to the Certificat		06 Nota *	delineato nel <a> e giudicato positivamente da secondo il Certificato <c> .</c>	11 Information *	enligt <a> och godkänts av enligt Certifikatet <c> .</c>	16 Megjegyzés	* a(z) <a> alapján, a(z) igazolta a megfelelést, a(z) <c> tanúsítvány szerint.</c>	21 Забележка	както е изложено в <a> и оценено положително от съгласно		
02 Hinweis*	wie in der <a> aufgeführt u beurteilt gemäß Zertifikat		07 Σημείωση *	όπως καθορίζεται στο <a> και κρίνεται θετικά από το σύμφωνα με το Πιστοποιητικό <c> .</c>	12 Merk *	som det fremkommer i <a> og gjennom positiv bedømmelse av ifølge Sertifikat <c> .</c>	17 Uwaga *	zgodnie z dokumentacją <a>, pozytywną opinią i Świadectwem <c> .</c>	22 Pastaba *	Сертификата <c>. kaip nustatyta <a> ir kaip teigiamai nuspręsta </c>		
03 Remarque *	tel que défini dans <a> et é conformément au Cer		08 Nota *	tal como estabelecido em <a> e com o parecer positivo de de acordo com o Certificado <c>.</c>	13 Huom *	jotka on esitetty asiakirjassa <a> ja jotka on hyväksynyt Sertifikaatin <c> mukaisesti.</c>	18 Notă *	așa cum este stabilit în <a> și apreciat pozitiv de în conformitate cu Certificatul <c> .</c>	23 Piezīmes *	pagal Sertifikatą <c></c> . kā norādīts <a> un atbilstoši pozitīvajam		
04 Bemerk *	zoals vermeld in <a> en p overeenkomstig Certi		09 Примечание	* как указано в <a> и в соответствии с положительным решением согласно	14 Poznámka *	jak bylo uvedeno v <a> a pozitivně zjištěno v souladu s osvědčením <c></c>	19 Opomba *	kot je določeno v <a> in odobreno s strani v skladu s certifikatom <c> .</c>	24 Poznámka *	vērtējumam saskanā ar sertifikātu <c></c> . ako bolo uvedené v <a> a pozitívne zistené v	<a> D/	AIKIN, TCF, 015P7/07-2012
05 Nota*	como se establece en <a> positivamente por de a Certificado <c>.</c>		10 Bemærk *	Свидетельству <c> . som anført i <a> og positivt vurderet af i henhold til Certifikat <c> .</c></c>	15 Napomena *	kako je izloženo u <a> i pozitivno ocijenjeno od strane prema Certifikatu <c> .</c>	20 Märkus *	nagu on näidatud dokumendis <a> ja heaks kiidetud järgi vastavalt sertifikaadile <c> .</c>	25 Not*	súlade s o svedčením <c≻< b="">. <a≻'da <<b="" belirtildíği="" gibi="" ve="">C> Sertifikasına</a≻'da></c≻<> göre tarafından olumlu olarak değerlendirildiği gibi.		EKRA (NB0344) 1736-KRQ/EMC97-4957



Takayuki Fujii Managing Director 1st of Nov. 2012

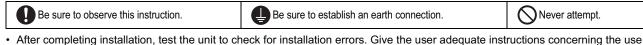
DAIKIN INDUSTRIES CZECH REPUBLIC s.r.o.

U Nove hospody 1/1155, 301 00 Plzen Skvrnany, Czech Republic

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:



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 termi- nal 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 or panels. Install covers over the wires. Incomplete cover installation may cause terminal overheating, electrical shock, or fire.
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.

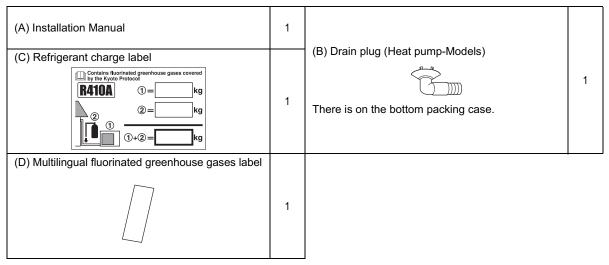
 Make sure to provide for adequate measures in order to prevent that the outdoor unit be used as a shelter by small

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.

Accessories

Accessories supplied with the outdoor unit:



Precautions for Selecting the Location

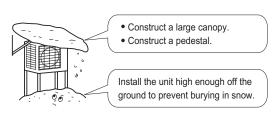
- 1) Choose a place solid enough to bear the weight and vibration of the unit, where the operation noise will not be amplified.
- 2) Choose a location where the hot air discharged from the unit or the operation noise will not cause a nuisance to the neighbors of the user.
- 3) Avoid places near a bedroom 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 cables at least 3 meter 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 3 meter 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

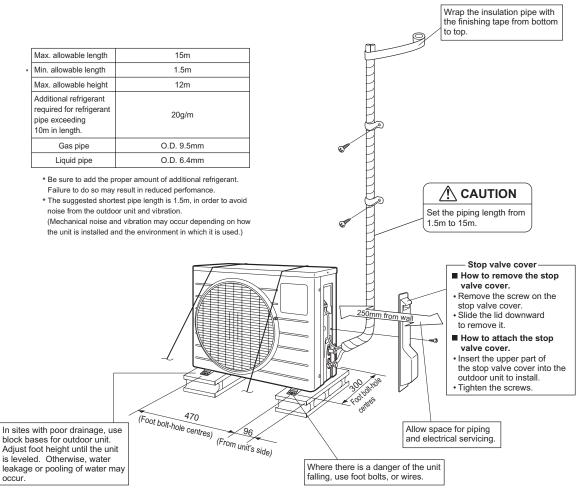
Cannot be installed hanging from ceiling or stacked.

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

- 1) 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.
- 4) In heavy snowfall areas, select an installation site where the snow will not affect the unit.



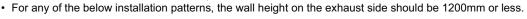
Outdoor Unit Installation Drawings

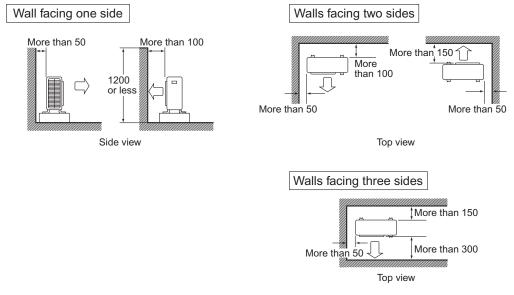


unit: mm

Installation Guidelines

• Where a wall or other obstacle is in the path of outdoor unit's intake or exhaust airflow, follow the installation guidelines below.

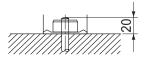




Unit: mm

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 four 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 length are 20mm from the foundation surface.



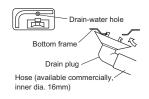
Outdoor Unit Installation

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. (Heat pump-models.)

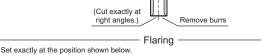
- 1) Use drain plug for drainage.
- If the drain port is covered by a mounting base or floor surface, place additional foot bases of at least 30mm in height under the outdoor unit's feet.
- In cold areas, do not use a drain hose with the outdoor unit. (Otherwise, drain water may freeze, impairing heating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



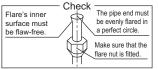
Outdoor Unit Installation

3. Flaring the pipe end.

- 1) Cut the pipe end with a pipe cutter.
- 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.







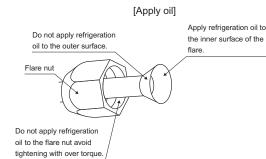
- 1) Do not use mineral oil on flared part.
- 2) Prevent mineral oil from getting into the system as this would reduce the lifetime of the units.
- 3) Never use piping which has been used for previous installations. Only use parts which are delivered with the unit.
- 4) Do never install a drier to this 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.

4. 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.



	[inginein]		
	Torque wrench		
Spanner Piping union	Flare nut		
	Thate that		

[Tighten]

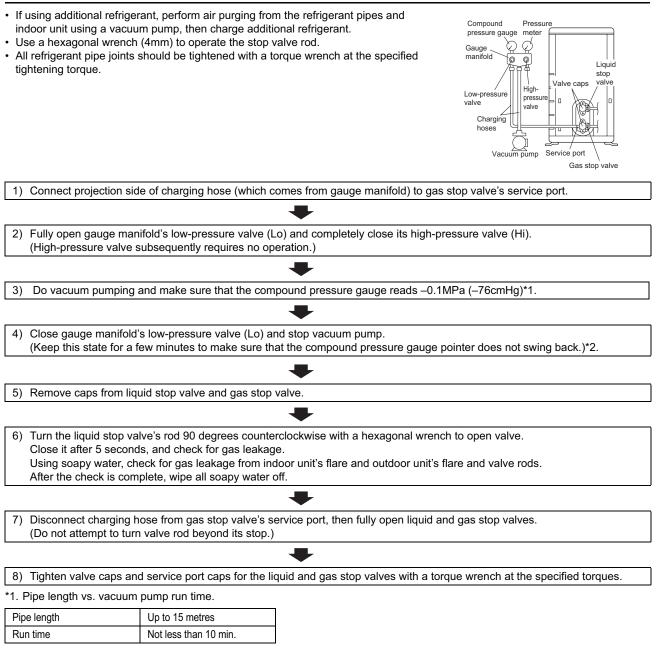
Flare nut tightening torque					
Gas side	Liquid side				
3/8 inch	1/4 inch				
32.7-39.9N • m	14.2-17.2N • m				
(333-407kgf • cm)	(144-175kgf • cm)				

٦	Valve cap tightening torque						
-							
	Gas side	Liquid side					
]	3/8 inch	1/4 inch					
1	21.6-27.4N • m	21.6-27.4N • m					
	(220-280kgf • cm)	(220-280kgf • cm)					
	Service port cap	10.8~14.7N • m					
	tightening torque	(110~150kgf • cm)					

5. Purging air and checking gas leakage.

• When piping work is completed, it is necessary to purge the air and check for gas leakage.

- 1) Do not mix any substance other than the specified refrigerant (R410A) into the refrigeration cycle.
- 2) When refrigerant gas leaks occur, ventilate the room as soon and as much as possible.
- 3) R410A, as well as other refrigerants, should always be recovered and never be released directly into the environment.
- 4) Use a vacuum pump for R410A exclusively. Using the same vacuum pump for different refrigerants may damage the vacuum pump or the unit.



^{*2.} If the compound pressure gauge pointer swings back, refrigerant may have water content or a loose pipe joint may exists. 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

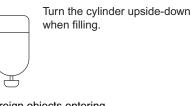
Fill from the liquid pipe in liquid form.

- 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



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

Important information regarding the refrigerant used

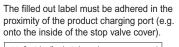
This product contains fluorinated greenhouse gases covered by the Kyoto Protocol. Do not vent gases into the atmosphere.

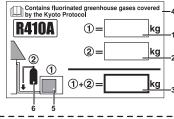
Refrigerant type: R410A

GWP⁽¹⁾ value: **1975** ⁽¹⁾ GWP = global warming potential

Please fill in with indelible ink,

- ① the factory refrigerant charge of the product,
- \blacksquare O the additional refrigerant amount charged in the field and
- ①+② the total refrigerant charge
- on the refrigerant charge label supplied with the product.





- 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

Be sure to

place a cap

If no flare cap is

available, cover the flare mouth with tape to keep dirt or water out.

6 refrigerant cylinder and manifold for charging

Wal

NOTE

National implementation of EU regulation on certain fluorinated greenhouse gases may require to provide the appropriate official national language on the unit. Therefor 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.

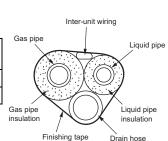
- 1) Protect the open end of the pipe against dust and moisture.
- All pipe bends should be as gentle as possible. Use a pipe bender for bending.

7-2 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 side	Liquid side	Gas pipe thermal insulation	Liquid pipe thermal insulation	
O.D. 9.5mm	O.D. 6.4mm	I.D. 12-15mm	I.D. 8-10mm	
Minimum b	end radius	Thickness 10mm Min.		
30mm (or more			
Thickness 0.8n	nm (C1220T-O)			



3) Use separate thermal insulation pipes 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 five to ten minutes, close the liquid stop valve with a hexagonal wrench.
- 4) After two to three minutes, close the gas stop valve and stop forced cooling operation.

How to force cooling operation mode

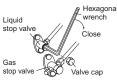
- Using the indoor unit operation/stop button
 - Press the indoor unit operation/stop button for at least five seconds. (Operation will start.) • Forced cooling operation will stop automatically after around 15 minutes.
 - To force a test run to stop, press the indoor unit operation/stop button.

Using the main unit's remote controller

- 1) Press the "operation/stop" button. (Operation will start.)
- 2) Press the temperature **A v** button and the "operation select" button at the same time.
- 3) Press the "operation select" button twice.
- (7^- will be displayed and the unit will enter test run mode.)
- 4) Press the "operation select" button to return the operation mode to cooling.
- Test run mode will stop automatically after around 30 minutes. To force a test run to stop, press the operation/stop button.

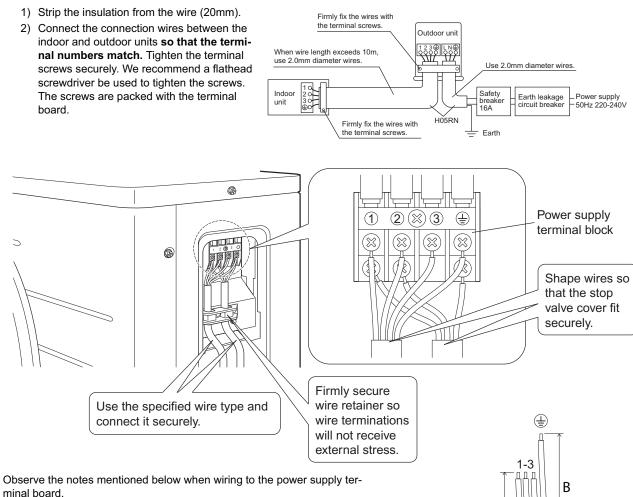
A CAUTION -

- 1) When pressing the switch, do not touch the terminal block. It has a high voltage, so doing so may cause electric shock.
- 2) After closing the liquid stop valve, close the gas stop valve within three minutes, then stop the forced operation.



Wiring

- 1) Do not use tapped wires, stranded wires, extension cords, or starburst connections, as they may cause overheating, electrical shock, or fire.
- 2) 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.
- 3) Be sure to install an earth leakage breaker. (One that can handle higher harmonics.) (This unit uses an inverter, which means that it must be used an earth leakage breaker capable handling harmonics in order to prevent malfunctioning of the earth leakage breaker itself.)
- 4) Use an all-pole disconnection type breaker with at least 3mm between the contact point gaps.
- 5) 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.



Precautions to be taken for power supply wiring.

Use a round crimp-style terminal for connection to the power supply terminal board. In case it cannot be used due to unavoidable reasons, be sure to observe the following instruction.

Place the round crimp-style terminals on the wires up to the covered part and secure in place.

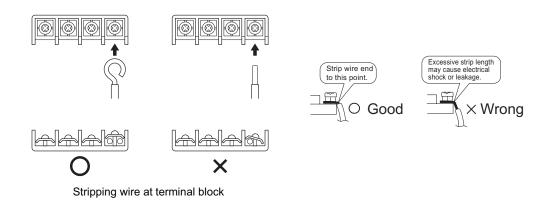
Round crimp-style terminal Stranded Wire



Α

A<B

When connecting the connection wires to the terminal board using a single core wire, be sure to perform curling. Problems with the work may cause heat and fires.



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

Test Run and Final Check

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.
 - 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.
 - 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.

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 controller commands.	Inoperative	

MEMO

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