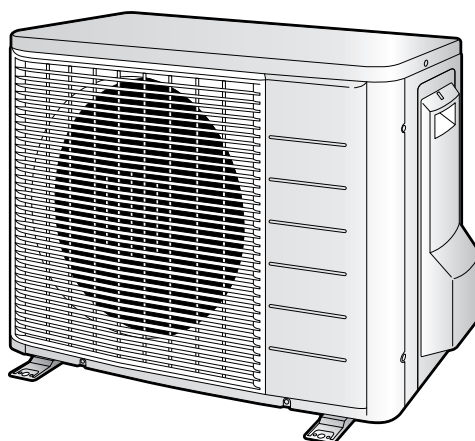




INSTALLATION MANUAL

MODEL

RXLG25L2V1B
RXLG35L2V1B
RXL35K2V1B
RXL25J3V1B
RXL35J3V1B
RXL20K3V1B
RXL25K3V1B
RXLG25K3V1B
RXLG35K3V1B



CE - DECLARATION-OF-CONFORMITY
CE - KONFORMITÄTSPRÄKLARUNG
CE - DECLARATION-DE-CONFORMITE
CE - KONFORMITEITSVERKLARING

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

CE - DECLARAÇÃO-DE-CONFORMIDADE
CE - ЗАЯВЛЕНИЕ-О-СОТВЕТСТВИИ
CE - OVERENSTEMMELSESERKLARING
CE - FÖRSÄKRAN-OM-ÖVERENSTEMMELSE

CE - ERKLÄRUNG OM-SÄMVERSI
CE - ILMOITUS-YHDENMUKAISUDESTA
CE - DEKLARACJA-ZGODNOŚCI
CE - DECLARAȚIE-DE-CONFORMITATE

CE - IZJAVA-O-USKLADENOSTI
CE - MEGFELELŐSÉG-NYILATKOZAT
CE - DEKLARACIJA-3A-C'OTBETCTBIIE
CE - IZJAVA O SKLADNOSTI
CE - VASTAVUSDEKLARACIJA
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 (6) erklart att för sin ena ansvar, att klimatlagarna modeller, som denna deklaration innehåller att:
03 (F) déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclaration:
04 (NL) verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft:
05 (E) declara bajo su única responsabilidad que los modelos de aire acondicionado a los cuales hace referencia la declaración:
06 (I) dichiara sotto sua responsabilità che i condizionatori modello a cui è riferita questa dichiarazione:
07 (66) δηλώνει με αποκλειστική της ευθύνη ότι τα προϊόντα των κλιματιστικών μονάδων από οποιαδήποτε γλώσσα:
08 (C) declara sob sua exclusiva responsabilidade que os modelos de ar condicionado a que esta declaração se refere:

RXL25J3V1B, RXL35J3V1B, RXLG25K3V1B, RXLG35K3V1B, RXL20K3V1B, RXL25K3V1B,

- 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 (den folgenden Normen) oder einem anderen Normdokument oder -dokumenten entspricht/entsprechen, unter der Voraussetzung, dass sie gemäß unseren Anweisungen eingesetzt werden:
03 sont conformes à la(s) norm(e)(s) ou autre(s) document(s) normatif(s), pour autant qu'ils soient utilisés conformément à nos instructions:
04 conform de volgend(e) 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) documento(i) a carattere normativo, a patto che vengano usati in conformità alle nostre istruzioni:
07 (качественно) соответствуют следующим стандартам (и другим нормативным документам), при условии их использования согласно нашим инструкциям:
08 est în conformitate cu următoarele standarde (și alte documente normative), în condiția ca acestea să fie utilizate în conformitate cu instrucțiunile noastre:
09 (den følgende normen) eller andre relevante retningsgivernde dokument(er), forudsat at disse anvendes i henhold til vore instrukser:
10 overholder følgende standard(er) eller andre relevante retningsgivernde dokument(er), forudsat at disse anvendes i henhold til vore instrukser:
11 respektive utvingning 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 uslyer er i overensstemmelse med følgende standard(er) eller andre normgivende dokument(er), under forudsætning af at disse bruges i henhold til våre instruksjoner:
13 (saataval) seuraavien standardien ja muiden ohjeistettujen dokumenttien vaatimuksia edellytettien, että niitä käytetään ohjeidemme mukaisesti:
14 za predpostavku, da jsou využívány v souladu s našimi pokyny, odpovídají následujícím normám nebo normativním dokumentům:
15 v skladu sa sledjícím standardom(i)mi ili drugim normativnim dokumentom(ima), uz uvjet da se oni koriste u skladu s našim uputama:

- 01 Note * as set out in <A> and judged positively by
02 Hinweis * wie in <A> aufgeführt und von positiv beurteilt
03 Remarque * tel que défini dans <A> et évalué positivement par
04 Bemerk * zoals vermeld in <A> en positief beoordeeld door
05 Nota * como se establece en <A> y es valorado positivamente por
06 Nota * delimitato nel <A> e giudicato positivamente da
07 Znak * tak jak je stanoveno v <A> a pozitivně zjištěno
08 Nota * iak vyznačeno v <A> i pozitivne zjasheno
09 Примечание * как указано в <A> и с положительным суждением
10 Bemerk * som antiet i <A> og positivt vurderet af i henhold til Certificat <A>

- 01 ** D1Cz*** is authorised to compile the Technical Construction File.
02 ** D1Cz*** hat die Berechtigung die Technische Konstruktionsakte zusammenzustellen.
03 ** D1Cz*** est autorisé à compiler le Dossier de Construction Technique.
04 ** D1Cz*** is bevoegd om het Technisch Constructieoosier samen te stellen.
05 ** D1Cz*** está autorizado a compilar el Archivo de Construcción Técnica.
06 ** D1Cz*** è autorizzata a redigere il File Tecnico di Costruzione.

***D1Cz = Daikin Industries Czech Republic s.r.o.



Takayuki Fujii
Managing Director
1st of Nov. 2012

DAIKIN INDUSTRIES CZECH REPUBLIC s.r.o.

U Nové Hospody 1/1155, 301 00 Píseň Skvrňany,
Czech Republic

3P327445-4D

- 09 (66) заверяет, исключительно под свою ответственность, что модели климатического воздуха, к которым относится настоящее заявление:
10 (66) erklærer under ens ansvar, at klimaatlagens modeller, som denne deklaration vedrører:
11 (S) deklarerar i egen ansvar, att luftkonditioneringsmodellerna som betörs av denna deklaration innehåller att:
12 (N) erklærer i fuldstændig ansvar for at de luftkonditioneringsmodeller som beröres av denne deklaration, inneholder at:
13 (NL) imrohtu yksinomaan omalla vastuullaan, että lään ilmoluksen laitevalmistajien nimittämät mallit:
14 (CZ) prohláše ve své plné odpovědnosti, že modely klimatizace, k nřím se toto prohlášení vztahuje:
15 (66) δηλώνει υπό έκλειστική ευθύνη ότι οι μονέι κλίμαα, υπέρτα τα ότα σε οια γλώσσα ονομα:
16 (H) teljes felelősség tudatában kijelent, hogy a klimatizációs modellek, melyekre a nyilatkozat vonatkozik:

- 08 est în conformitate cu al(e) siguiente(s) norma(s) u otro(s) document(s) normativ(s), deose que estes seşm 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 relevante retningsgivernde dokument(er), forudsat at disse anvendes i henhold til vore instrukser:
11 respektive utvingning 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 uslyer er i overensstemmelse med følgende standard(er) eller andre normgivende dokument(er), under forudsætning af at disse bruges i henhold til våre instruksjoner:
13 (saataval) seuraavien standardien ja muiden ohjeistettujen dokumenttien vaatimuksia edellytettien, että niitä käytetään ohjeidemme mukaisesti:
14 za predpostavku, da jsou využívány v souladu s našimi pokyny, odpovídají následujícím normám nebo normativním dokumentům:
15 v skladu sa sledjícím standardom(i)mi ili drugim normativnim dokumentom(ima), uz uvjet da se oni koriste u skladu s našim uputama:

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

- 11 Information * enligt <A> och godkänns av enligt Certificat <A>
12 Merk * som det fremkommer i <A> og gjennom positiv bedømmelse av ifølge Certificat <A>
13 Huom * jolla on esitetty asiakirjassa <A> ja jolla on hyväksynyt Sertifikaatin <A> mukaisesti.
14 Poznámka * jak bylo uvedeno v <A> a pozitivně zjištěno
15 Napomena * kako je izloženo u <A> pozitivno ocijenjeno od strane prema Certificatu <A>
16 Megjegyzés * a(z) <A> alapján, a(z) igazolta a megjelölt, a(z) <C> tanúsítvány szerint:
17 Uwaga * zgodnie z dokumentacją <A> pozytywną opinię Swiadechestwem <A>
18 Noia * asa cum este stabilit în <A> și aprobat pozitiv în în conformitate cu Certificat <A>
19 Opomba * kol je doobreno v <A> i odobreno s stran v skladu s certifikatom <A>
20 Mirkus * ragu on naikadu dokumentis <A> je hasks kateid jang vastatam sertifikadike <A>

- 13 ** D1Cz*** on valtuutettu laatimaan Teknisen Asiakirjan.
14 ** Společnost D1Cz*** má oprávnění ke kompilaci souboru technické konstrukce.
15 ** D1Cz*** je ověřen za zřadu Databete o technické konstrukci.
16 ** A D1Cz*** jopssult a mizskat konstrukciós dokumentációt szeszel lészára.
17 ** D1Cz*** má upovařenie do zberania i opracovavania dokumentáci kontrukciej.
18 ** D1Cz*** este autorizat să completeze Dosarul Tehnic de construcție.

- 17 (6L) deklarije na vlastnu, izvjažna odgovornost, da modele klimatizatorov, ktorých dotyczy nižšieja deklaracija:
18 (66) deklari je proprie răspunde de aparatele de aer condiționat la care se referă acestă declarație.
19 (66) z viso odgovornosti izjavla, da so modeli klimatskih naprav, na katere se izjava nanaša:
20 (66) kinnitab oma täieliku vastutuse, et käesoleva deklaratsiooni alla kuuluvad kliimaseadmete mudelid:
21 (66) deklariirava na oson otvetsnost, et kõigilme kliimatikate masinad, za kormo se otnetsi tazi deklariiravut:
22 (CZ) všsika savo atsakomybe skieba, ka toki kondicionavimo prietaisų modeliai, kuriems yra taikoma šis deklaracija:
23 (CZ) všsika savo atsakomybe skieba, ka toki kondicionavimo prietaisų modeliai, kuriems yra taikoma šis deklaracija:
24 (66) δηλώνει na vlastnu zodpovednost, že tieto klimatizačné modely, na ktoré sa vzťahuje toto vyhlásenie:
25 (66) lanamen kendi sorumluluğunda olnak, izere bu bildirimi ilgili iklima modelinin aşağıdaki gibi olduğunu beyan eder:

- 18 megjelölnek az alábbi szabvány (ok)nak vagy egyéb irányadó dokumentum(ok)nak, ha azokat előírás szerint használják:
17 spełnia wymag następujących norm i innych dokumentów normalizacyjnych, pod warunkiem że używane są zgodnie z naszymi instrukcjami:
18 sunt în conformitate cu următoarele standarde (sau alte) documente normative, cu condiția ca acestea să fie utilizate în conformitate cu instrucțiunile noastre:
19 skladni z naslednjih standardi in drugim normativi, pod pogojem, da se uporabljajo v skladu z našimi navodili:
20 v skladu s naslednjimi standardi in drugim normativnim dokumenti, ki neč kasualnase vastatati neke juhendile:
21 соответстват на следните стандарти или други нормативни документи, при условие, че се използват съгласно нашите инструкции:
22 alittaka zämuu noudotus standardit i (en)ä kiitus normiivus dokumentus su saiga, kad via noudotaj pagid määsü nurodymus:
23 lad je leidet atbilstošā režidža norādījumiem, atbilst sekojošiem standartiem un citiem normatīviem dokumentiem:
24 su v zhode s nasledovno(y)mi normo(y)mi) alebo nřm(y)mi normatívnym(i) dokumentom(ami), za predpokladu, že sa používajú v súlade s našimi návodymi:
25 (inun, laimatairma gre kulanimas: kopulija sągaidi standartar ve norm beiften begerleje uyumludur:

- 10 Direktive, as amended.
11 Direktiv, med senere ændringer.
12 Direktive, med foretagne ændringer.
13 Direktive, telles que modifiées.
14 Richtlijnen, zoals geamendeerd.
05 Directivas, según lo emendado.
06 Directive, come da modifica.
07 Ођновљен, ођновљен уопшном ођновљен.
08 Directivas, conforme alteração em.
09 Директиве со всеми поправками.
10 Direktive, med senere ændringer.
11 Direktiv, med foretagne ændringer.
12 Direktive, med foretagne ændringer.
13 Direktive, telles que modifiées.
14 v planem zření.
15 Snijemica, kako je izmijenjeno.
16 řahve(y)ek) is moudosidask renvelkezeset.
17 z pōžnejšim(y) popravkami.
18 Direktivelor, cu amendamentele respective.

- 21 Забелешка * како је измјењено s <A> и оцјењено нормативно oт сазначо Соприједата <A>
22 Pastaba * kaip nustatyta <A> ir kaip įteigiam išspęta pagal Sertifikat <A>
23 Poznám * ka noradits <A> un atbilstoš pozitīvajam vērtējumam saskaņā ar sertifikātu <A>
24 Poznámka * ako bolo uvedeno v <A> a pozitívne zistené v súlade s overčovním <A>
25 Not * <A> da beifidigi gbi ve Sertifikama göre laafindan dumi oarak degendindigi gbi.

- 19 ** D1Cz*** je pooblaščen za sestavo datoteke s tehnično mapo.
20 ** D1Cz*** on valtuudet koostama tehnilist dokumentatsiooni.
21 ** D1Cz*** è autorizzata a compilar el Archivo de Construcción Técnica.
22 ** D1Cz*** va palida sudaryti šį techninės konstrukcijos failą.
23 ** D1Cz*** i autorizēt sastādīt tehnisko konstrukcijas failu.
24 ** Spoločnosť D1Cz*** je oprávnená vytvoriť súbor technickej konštrukcie.
25 ** D1Cz*** Teknik Yapı Dosyasını derlemeye yetkilidir.

<A>	DAIKIN.TCF.015P/11/10-2012
	DEKRA (NB0344)
<C>	74736-KRQ/EMC97-4957

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.
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- 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.

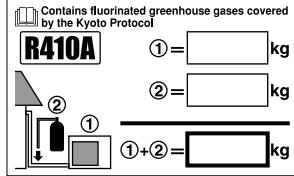
 WARNING	
• Ask your dealer or qualified personnel to carry out installation work. Do not attempt to install the air conditioner yourself. Improper installation may result in water leakage, electric shocks or fire.	
• Install the air conditioner in accordance with the instructions in this installation 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 compressor is 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.
- 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	(B) Refrigerant charge label 	1
(C) Multilingual fluorinated greenhouse gases label 	1		

Precautions for Selecting the Location

- 1) Choose a place solid enough to bear the weight and vibration of the unit, where the operation noise will not be amplified.
- 2) Choose a location where the hot air discharged from the unit or the operation noise will not cause a nuisance to the neighbors of the user.
- 3) Avoid places near a bedroom and the like, so that the operation noise will cause no trouble.
- 4) There must be sufficient spaces for carrying the unit into and out of the site.
- 5) There must be sufficient space for air passage and no obstructions around the air inlet and the air outlet.
- 6) The site must be free from the possibility of flammable gas leakage in a nearby place.
- 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.

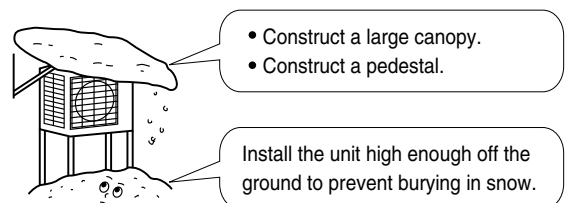
NOTE

Cannot be installed hanging from ceiling or stacked.

⚠ CAUTION

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.
- 2) Never install the outdoor unit at a site where the suction side may be exposed directly to wind.
- 3) 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.

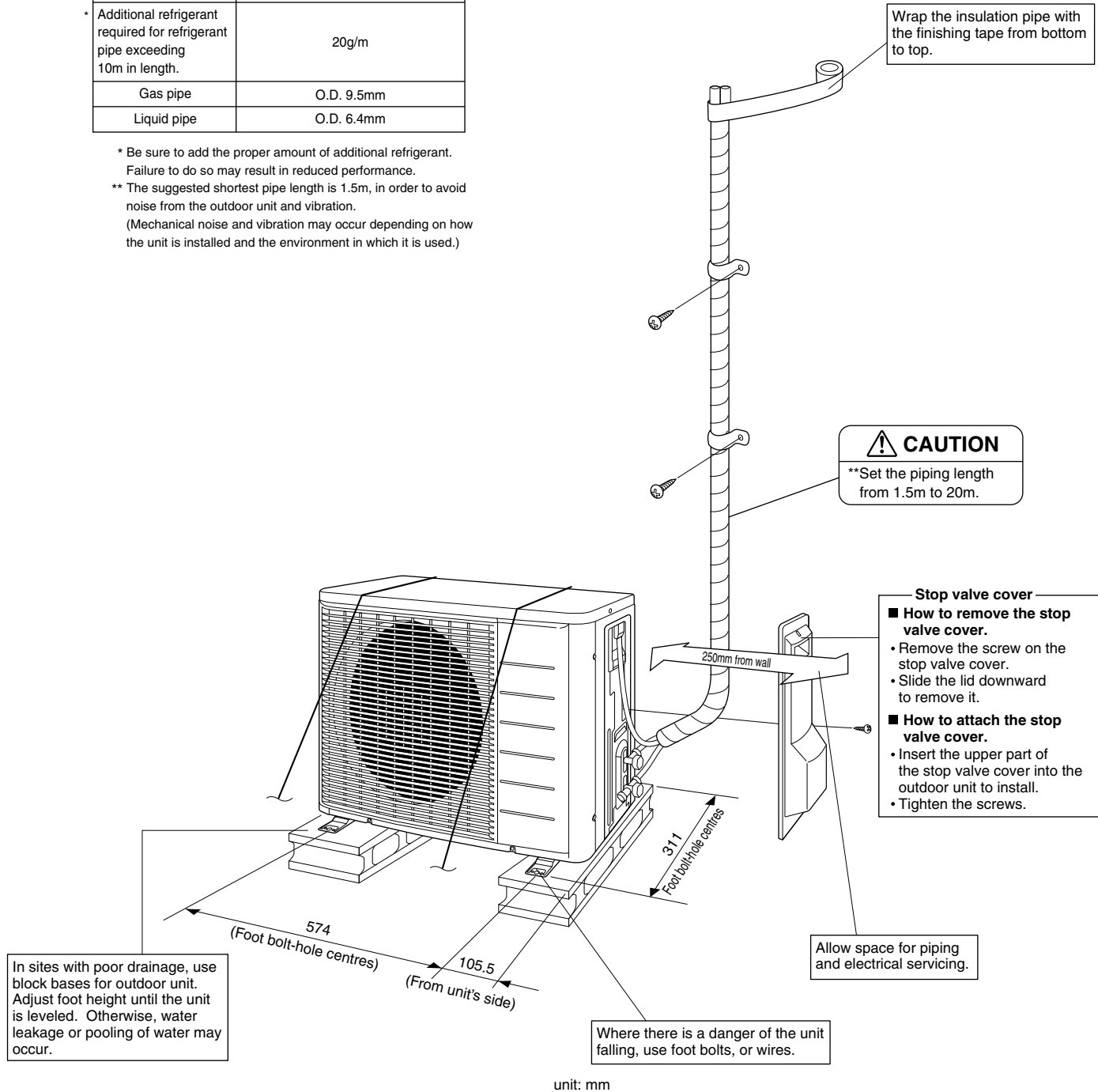


Outdoor Unit Installation Drawings

Max. allowable length	20m
** Min. allowable length	1.5m
Max. allowable height	15m
* Additional refrigerant required for refrigerant pipe exceeding 10m in length.	20g/m
Gas pipe	O.D. 9.5mm
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.

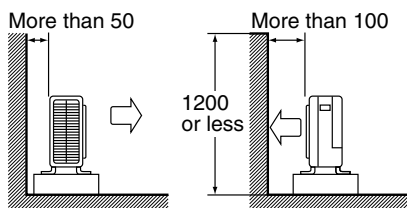
** The suggested shortest pipe length is 1.5m, in order to avoid noise from the outdoor unit and vibration. (Mechanical noise and vibration may occur depending on how the unit is installed and the environment in which it is used.)



Installation Guidelines

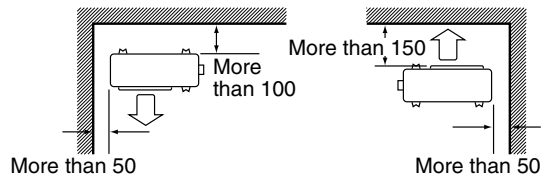
- Where a wall or other obstacle is in the path of outdoor unit's intake or exhaust airflow, follow the installation guidelines below.
- For any of the following installation patterns, the wall height on the exhaust side should be 1200mm or less.

Wall facing one side



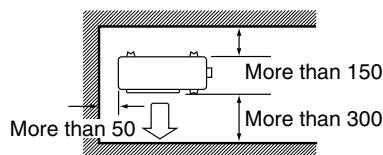
Side view

Walls facing two sides



Top view

Walls facing three sides

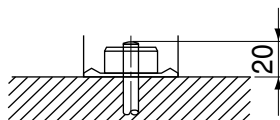


Top view

Unit: mm

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

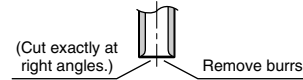
1. Installing outdoor unit.

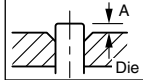
- 1) When installing the outdoor unit, refer to "Precautions for Selecting the Location" and the "Outdoor Unit Installation Drawings."

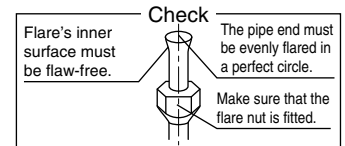
Outdoor Unit Installation

2. Flaring the pipe end.

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



Flaring			
Set exactly at the position shown below.			
	Flare tool for R410A		Conventional flare tool
	Clutch-type	Clutch-type (Rigid-type)	Wing-nut type (Imperial-type)
A	0-0.5mm	1.0-1.5mm	1.5-2.0mm



⚠ WARNING

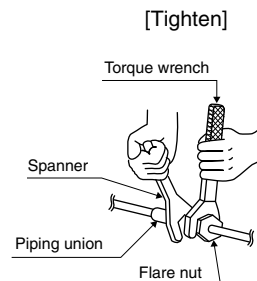
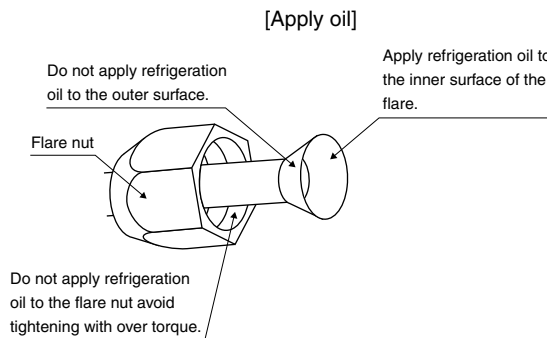
- 1) Do not use mineral oil on flared part.
- 2) Prevent mineral oil from getting into the system as this would reduce the lifetime of the units.
- 3) Never use piping which has been used for previous installations. Only use parts which are delivered with the unit.
- 4) Never install a dryer to this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

3. 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.



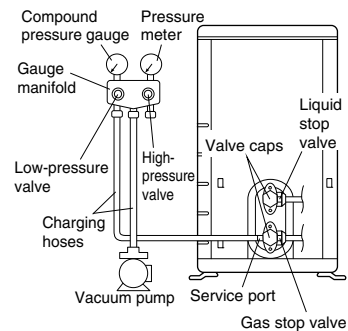
Flare nut tightening torque	
Gas side	Liquid side
3/8 inch	1/4 inch
32.7-39.9N • m (333-407kgf • cm)	14.2-17.2N • m (144-175kgf • cm)

Valve cap tightening torque	
Gas side	Liquid side
3/8 inch	1/4 inch
21.6-27.4N • m (220-280kgf • 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

4. Evacuating the air with a vacuum pump and checking gas leakage

- When piping work is completed, it is necessary to evacuate the air with a vacuum pump 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 evacuating 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 15 metres	More than 15 metres
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 exists.
Check all pipe joints and retighten nuts as needed, then repeat steps 2) through 4).

Outdoor Unit Installation

5. Refilling the refrigerant.

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

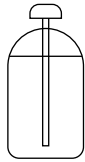
Precautions when adding R410A

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



Turn the cylinder upside-down when filling.

- 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,
 - 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).

Contains fluorinated greenhouse gases covered by the Kyoto Protocol

R410A

① = kg

② = kg

①+② = kg

6 5

- 1 factory refrigerant charge of the product: see unit name plate
- 2 additional refrigerant amount charged in the field
- 3 total refrigerant charge
- 4 Contains fluorinated greenhouse gases covered by the Kyoto Protocol
- 5 outdoor unit
- 6 refrigerant cylinder and manifold for charging

NOTE

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

6. Refrigerant piping work.

6-1 Cautions on pipe handling.

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

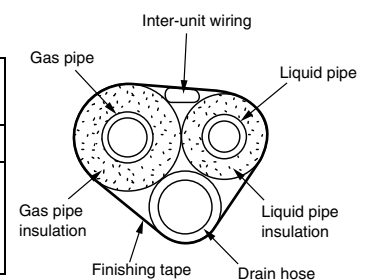
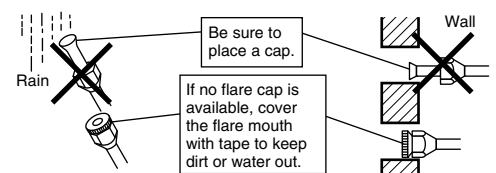
6-2 Selection of copper and heat insulation materials.

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 bend radius		Thickness 10mm Min.	
30mm or more			
Thickness 0.8mm (C1220T-O)			

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



Standby Electricity Saving

The standby electricity saving function turns OFF power supply to the outdoor unit and sets the indoor unit into standby electricity saving mode, thus reducing the power consumption of the air conditioner.

The standby electricity saving function works on the following indoor units.

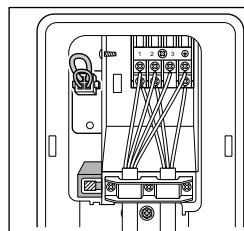
FTXL20G2V1B

CAUTION

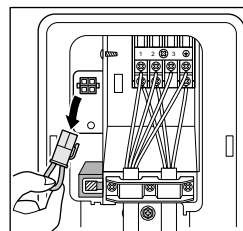
The standby electricity saving function cannot be used for models other than the specified ones.

■ Procedure for turning ON standby electricity saving function

- 1) Check that the main power supply is turned OFF. Turn it OFF if has not been turned OFF.
- 2) Remove the stop valve cover.
- 3) Disconnect the selective connector for standby electricity saving.
- 4) Turn ON the main power supply.



Standby electricity saving function OFF.



Standby electricity saving function ON.

The standby electricity saving function is turned OFF before shipping.

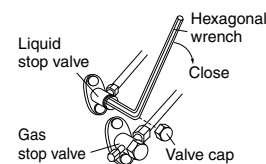
CAUTION

- 1) Before connecting or disconnecting the selective connector for standby electricity saving, make sure that the main power supply is turned OFF.
- 2) The selective connector for standby electricity saving is required if an indoor unit other than the above applicable ones is connected.

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 stop valve and stop forced cooling operation.



Forced cooling operation

■ Using the indoor unit ON/OFF button

Press the indoor unit ON/OFF button for at least 5 seconds. (Operation will start.)

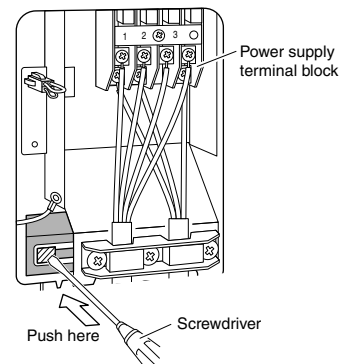
- Forced cooling operation will stop automatically after about 15 minutes.
- To force a trial operation to stop, press the indoor unit ON/OFF button.

■ Using the main unit's remote controller

- 1) Press the "ON/OFF" button. (Operation will start.)
- 2) Press the "TEMP" button and the "MODE" button at the same time.
- 3) Press the "MODE" button twice.
("T" will be displayed and the unit will enter trial operation.)
- 4) Press the "MODE" button to return the operation mode to cooling.
• Trial operation will stop automatically after about 30 minutes. To force a trial operation to stop, press the "ON/OFF" button.

■ Using the outdoor unit forced cooling operation switch (with standby electricity saving function turned OFF)

- 1) Push on "Z" with a screwdriver. The unit will start operating.
- 2) The forced cooling mode is selected, and terminates in approx. 15 minutes.



The selective connector for standby electricity saving in use (with standby electricity saving function turned OFF)

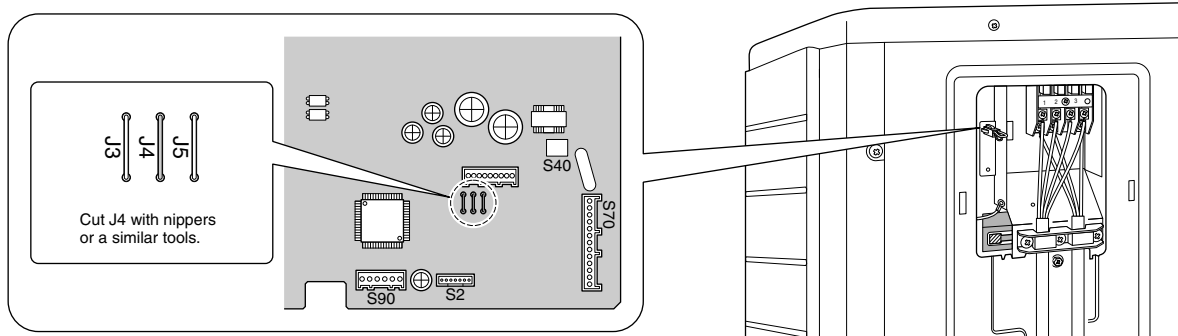
⚠ CAUTION

- 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.

Facility Setting (RXL25/35J3V1B+RXL20/25K3V1B+RXL35K2V1B only) (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.

- 1) Cutting jumper 4 (J4) 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.



⚠ CAUTION

- 1) If the outdoor unit is installed where the heat exchanger of the unit is exposed to direct wind, provide a windbreak wall.
- 2) Intermittent noises may be produced by the indoor unit due to the outdoor fan turning on and off when using facility settings.
- 3) 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 jumping from the indoor unit outlet vent.
- 4) Cutting jumper 4 (J4) sets the indoor fan tap to the highest position. Notify the user about this.

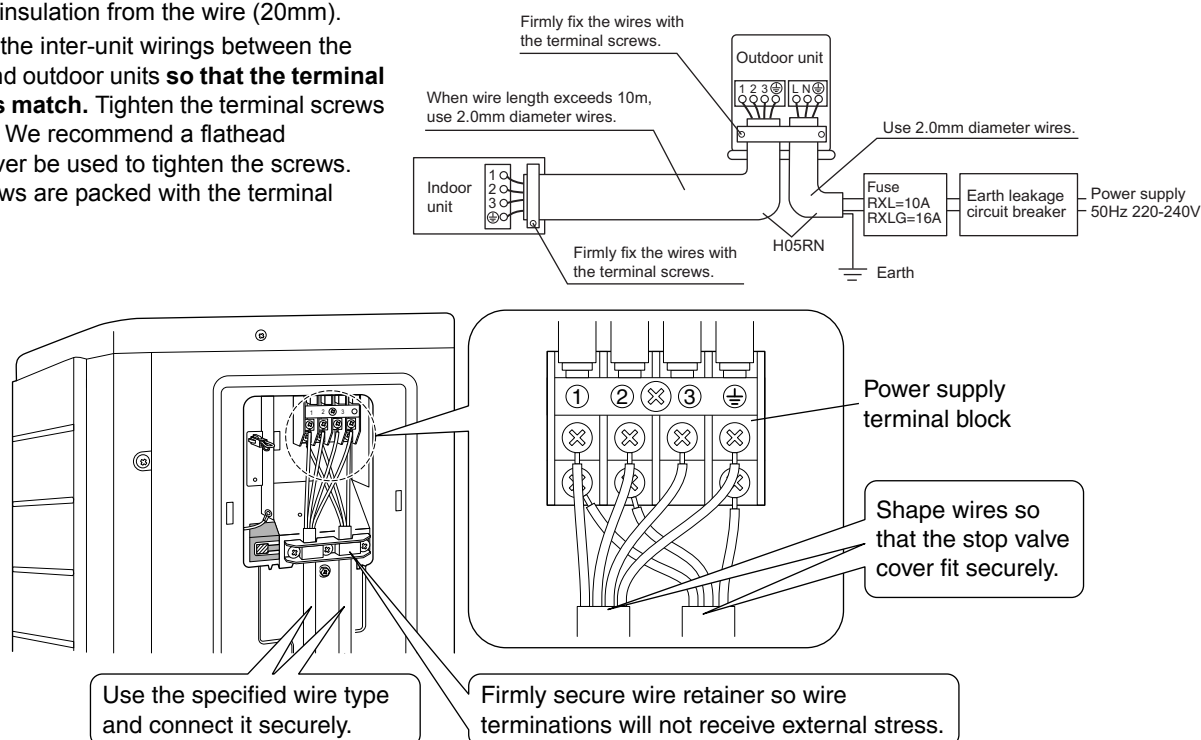
Wiring

⚠ WARNING

- 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 an earth leak detector capable of handling higher harmonics must be used, 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 power supply until all work is completed.

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



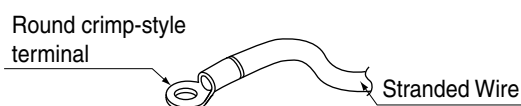
Observe the notes mentioned below when wiring to the power supply terminal board.

Precautions to be taken for power supply wiring.

Use a round crimp-style terminal for connection to the power supply terminal board.

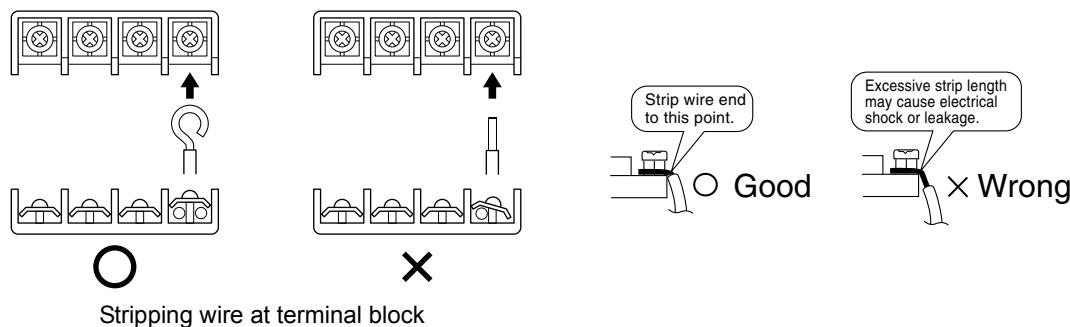
In case it cannot be used due to unavoidable reasons, be sure to observe the following instruction.

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



⚠ CAUTION

When connecting the inter-unit wirings 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.

Wiring

Wiring diagram

	: Terminal strip
	: Connector
	: Connection

BLK	: Black
BLU	: Blue
BRN	: Brown
GRN	: Green

Notes	: Refer to the nameplate for power requirements.
	: IN CASE OF COOLING ONLY TYPE
	: INDOOR
	: OUTDOOR
	: CONDENSER
	: DISCHARGE
	: DRAIN PAN HEATER

	: Field wiring
	: Relay connector
	: Terminal

ORG	: Orange
RED	: Red
WHT	: White
YLW	: Yellow

	In case of cooling only type
	Indoor
	Outdoor
	Condenser
	Discharge
	Drain pan heater

Wiring diagram parts table

C5,C6,C119	Capacitor
DB1,DB2,DB3	Diode bridge
E1H	Heater
FU1,FU2,FU3,	
FU4,FU5	Fuse
FU6	Field fuse
IPM1,IPM2	Intelligent power module
L	Live
L1	Coil
L1R	Reactor
M1C	Compressor motor
M1F	Fan motor
MRCW,MR30,	
MRM10,MRM20	Magnetic relay
N	Neutral
Q1L	Overload protector

PCB1,PCB2,	
PCB3	Printed circuit board
S10,S11,S20,S40,	
S50,S70,S80,S90,	
S100,S110,HL3,	
HN3,X11A,X12A	Connector
R1T,R2T,R3T	Thermistor
S1T	Thermostat
SA1	Surge arrester
Q1DI	Earth leak detector
SW1	Forced operation switch
V1,V2,V3	Varistor
X1M	Terminal strip
Y1E	Electronic expansion valve coil
Y1R	Reversing solenoid valve coil
Z1C,Z2C,Z3C	Ferrite core
	Protective earth

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.

- In cooling mode, select the lowest programmable temperature; in heating mode, select the highest programmable temperature.

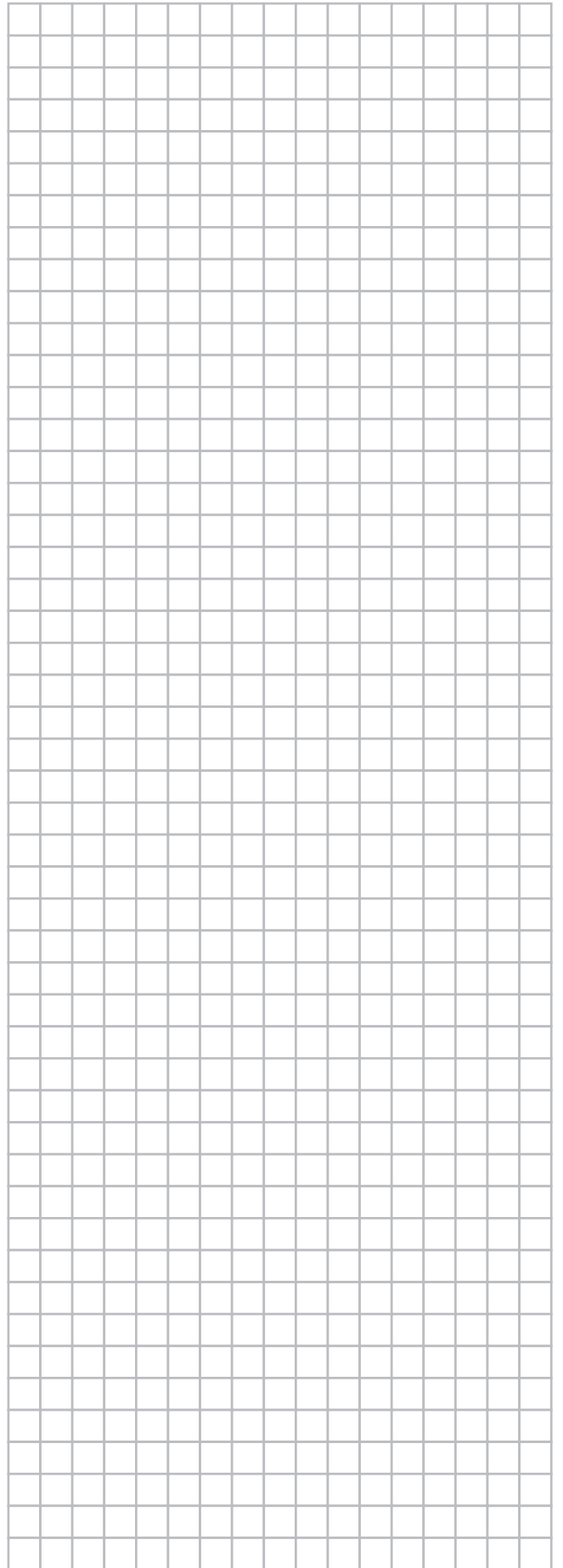
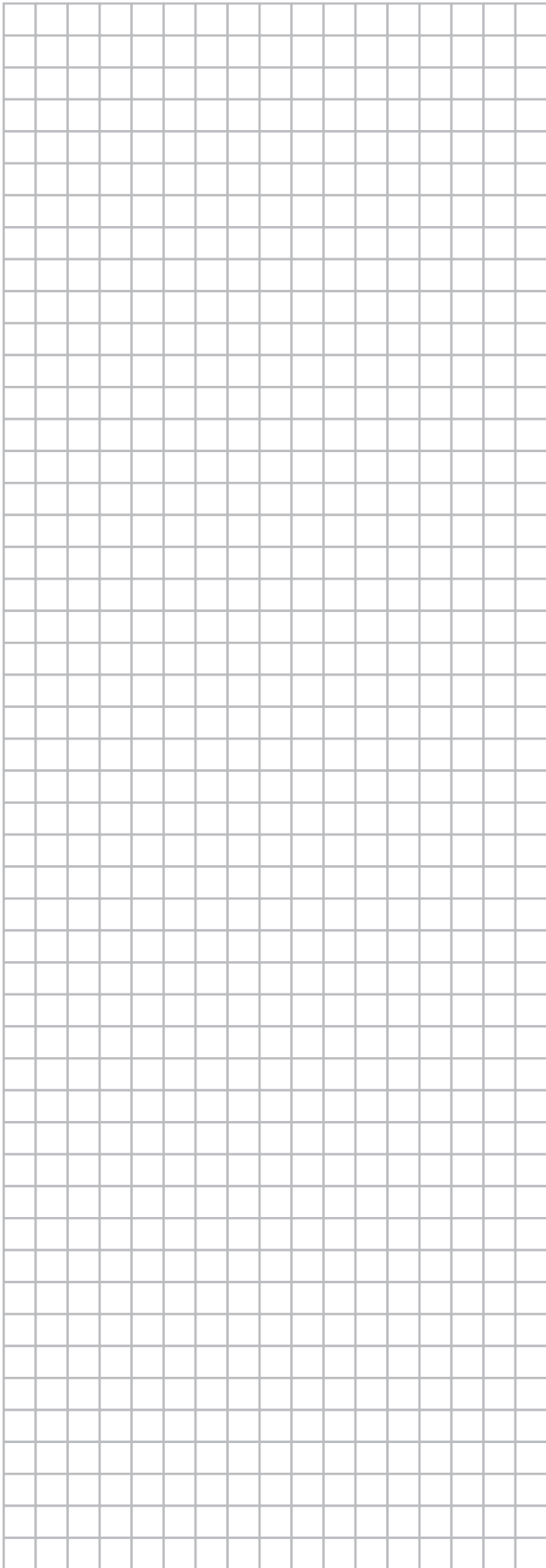
- 1) Trial operation may be disabled in either mode depending on the room temperature.
- 2) After trial operation is complete, set the temperature to a normal level (26°C to 28°C in cooling mode, 20°C to 24°C in heating mode).
- 3) For protection, the system disables restart operation for 3 minutes after it is turned off.

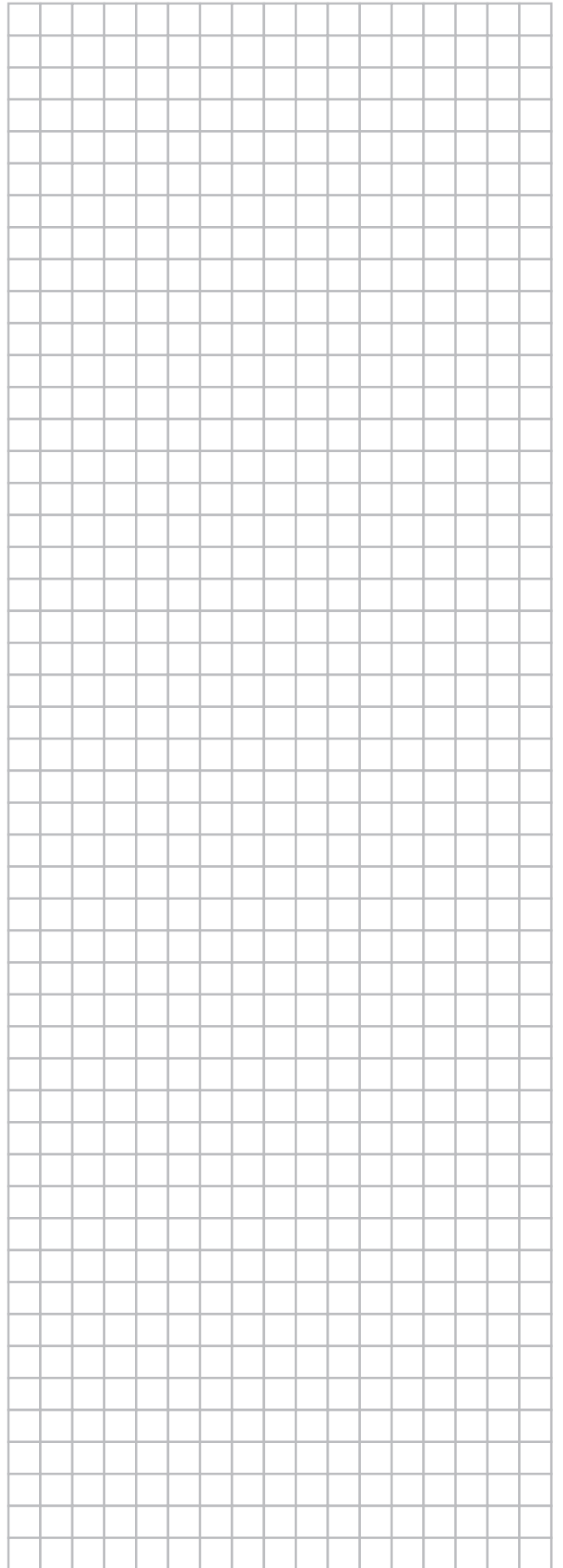
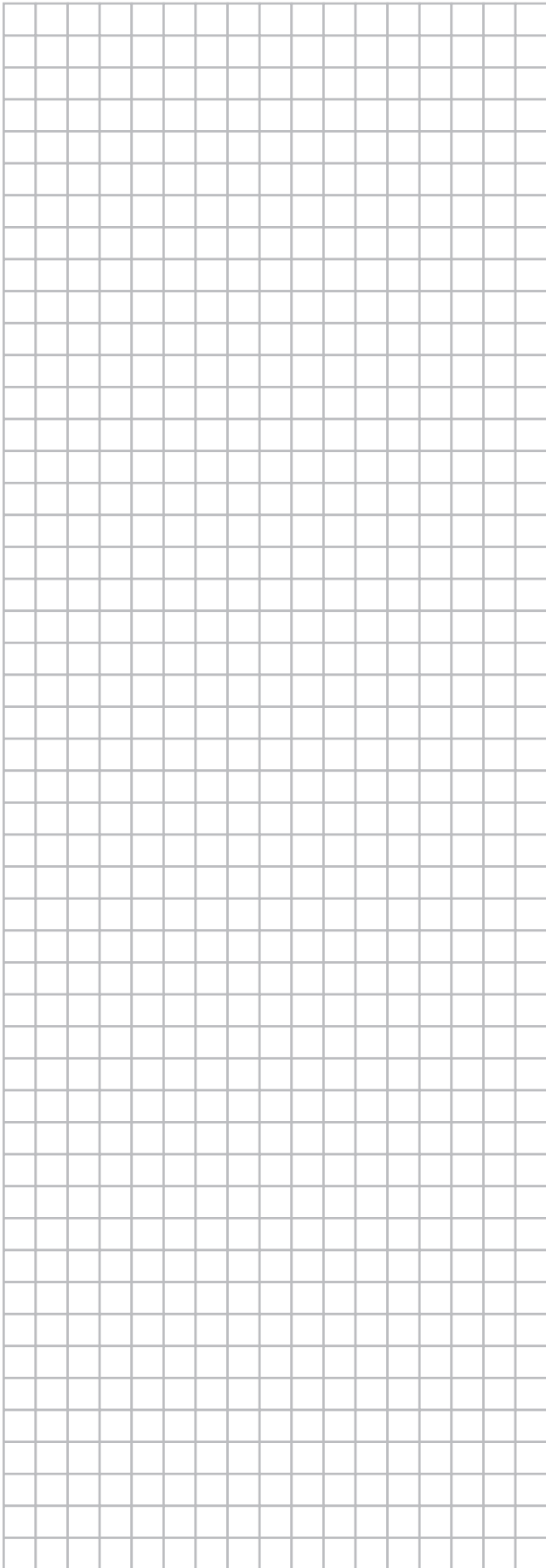
1-3 Carry out the test operation in accordance with the operation manual to ensure that all functions and parts, such as louver movement, are working properly.

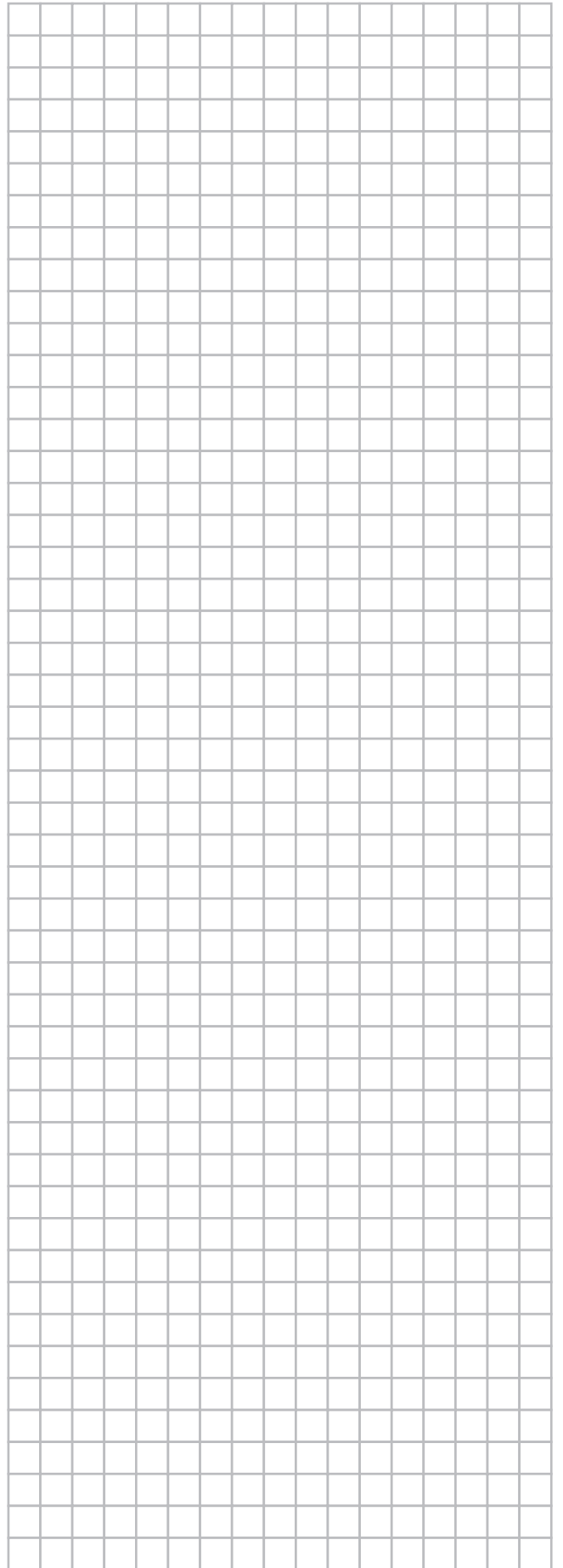
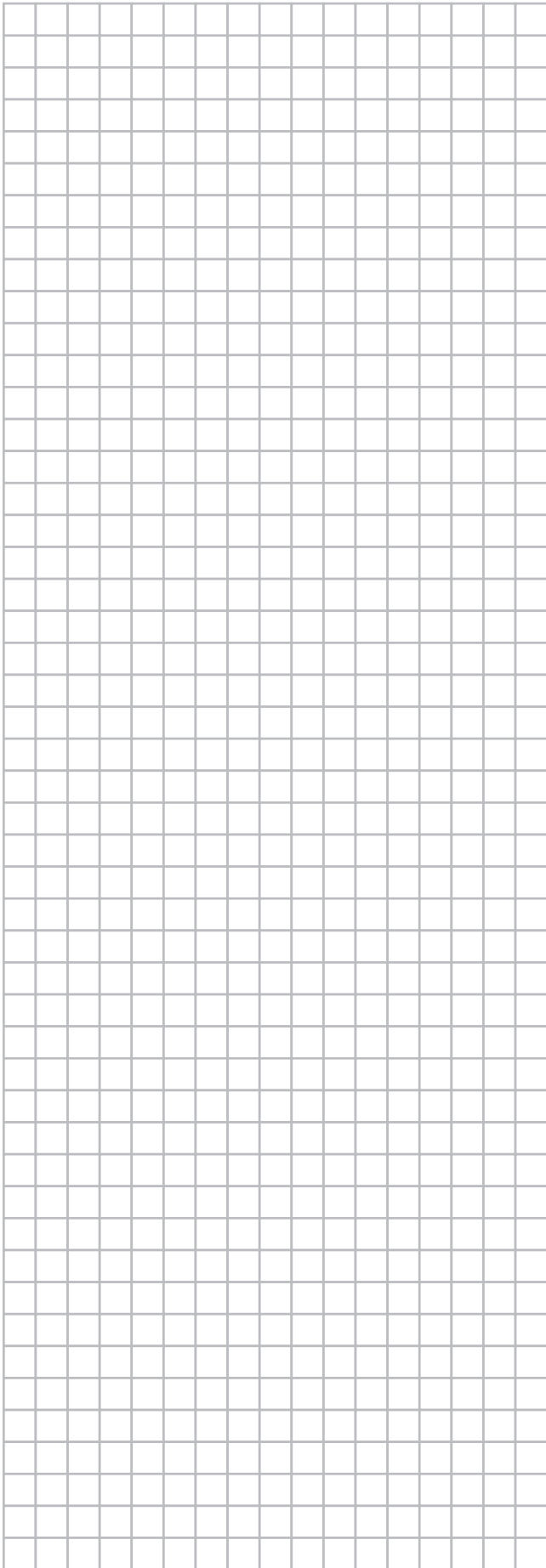
- The air conditioner requires a small amount of power in its standby mode. If the system is not to be used for some time after installation, shut off the circuit breaker to eliminate unnecessary power consumption.
- If the circuit breaker trips to shut off the power to the air conditioner, the system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

2. Test items.

Test items	Symptom	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	







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