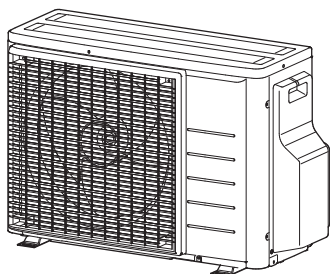


DAIKIN



INSTALLATION MANUAL

R32 Split Series



Models

2MXM40M3V1B

2MXM50M2V1B9

2AMXM40M3V1B

2AMXM50M3V1B

CE - DECLARACION-DE-CONFORMIDAD
CE - KONFORMITÄTSEKHLARUNG
CE - DICHIARAZIONE-DE-CONFORMITA
CE - ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ
CE - FORSKRAN-OM-ÖVERENSSTÄMMELSE

Daikin Industries Czech Republic s.r.o.

- 01 (66) declares under its sole responsibility that the air conditioning models to which this declaration relates.
- 02 (66) erklärt auf seine alleinige Verantwortung, dass die Modelle der Klimaanlage für die diese Erklärung bestimmt ist:
- 03 (66) déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclaration:
- 04 (66) verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft:
- 05 (66) deklara bajo su única responsabilidad que los modelos de aire acondicionado a los cuales hace referencia la declaración:
- 06 (66) δηλώνει με αποκλειστική της ευθύνη ότι το προϊόντα των κλιματιστικών μονοκτύπων στο οποίο αναφέρεται η παρούσα δήλωση:
- 07 (66) δηλώνει με αποκλειστική της ευθύνης ότι το προϊόντα των κλιματιστικών μονοκτύπων στο οποίο αναφέρεται η παρούσα δήλωση:
- 08 (66) deklara sous sa exclusive responsabilité que ce modèles de air conditionné a le cette déclaration de rélé:

2MXM50M2V1B9, 2AMXM50M3V1B,

- 05 esán en conformidad con la(s) siguiente(s) norma(s) u otro(s) documento(s) normal(s) o estándar, que sean utilizados de acuerdo con nuestras instrucciones:
- 06 sono conformi all(i) seguente(s) standard(s) o altro(i) documento(i) a carattere normativo, a pato che vengano usati in conformità alle nostre istruzioni:
- 07 éva oúporwa me toú(o) okolóyo(i) npótyro(i) i dño tyro(i) korwóyo, upw toú npoúrotyro(i) óti xpwpotwóyo(i) oúporwa me tíc dwtýric ýúc:
- 08 esáto en conformidad con al(s) siguiente(s) norma(s) ou outro(s) documento(s) normal(s), desde que estas sejam utilizadas de acordo com as nossas instruções:

EN60335-2-40

- 01 following the provisions of:
- 02 gemäß den Vorschriften der:
- 03 conformément aux stipulations des:
- 04 overeenkomstig de bepalingen van:
- 05 siguiendo las disposiciones de:
- 06 secondo le prescrizioni per:
- 07 je tipičny tvor bodový tvor:
- 08 de acordo com o previsto em:
- 09 в соответствии с положениями:
- 10 under lagtagelse af bestemmelserne i:
- 11 enligt villkoren i:
- 12 gilt i henhold til bestemmelserne i:
- 13 noudatlen määräyksiä:
- 14 za dodženi ustanoveni predpisu:
- 15 prema odredbama:
- 16 kövél a(z):
- 17 gódnice z ustanoveniam Dyrektyvy:
- 18 in urma prevederilor:

- 06 * delineado na e giudicato positivamente da * secondo il **Certificato** <>
- ** delineato nel File Tecnico di Costruzione <> e giudicato positivamente da <> (Modulo <> applicato) secondo il **Certificato** <>
- 07 * Oműködőpórtól óo <> ka kőrtől bérnt óm to <> oúporwa je to **homotipnó** <>
- ** Oműködőpórtól óo Árnyék Tőnyűkő Kőrtőnyű <> ka kőrtől bérnt óm to <> Xwpwotwóyo(i) upwótyro(i) oúporwa je to **homotipnó** <>
- 08 * tai como estabelecido em <> e como parecer positivo de <> de acordo com o **Certificado** <>
- ** tai como estabelecido no Ficheiro Técnico de Construção <> e como parecer positivo de <> (Modulo aplicado <>) de acordo com o **Certificado** <>
- 09 * ka kiazano a <> na contextu s pólomickým řešením <> sotraso **Čertifikátu** <>
- ** ka kiazano a úože technického topování <> a v soustavě s pólomickým řešením <> (Připojení modulů <>) sotraso **Čertifikátu** <>
- 05 * como se establece en <> y es valorado positivamente por <> de acuerdo con el **Certificado** <>
- ** tal como se expone en el Archivo de Construcción Técnica <> y juzgado positivamente por <> (Modulo aplicado <>) según el **Certificado** <>
- 06 * como se establece en <> e es valorado positivamente por <> de acuerdo con el **Certificado** <>
- ** tal como se expone en el Archivo de Construcción Técnica <> y juzgado positivamente por <> (Modulo aplicado <>) según el **Certificado** <>

- 07 *** H DICZ² fva i szomszédosági va avarúti rov Tűvény főkele kőrtőnyűs
- 08 *** H DICZ² está autorizada a compilar a documentación técnica de fabrico.
- 09 *** Компания DICZ² уполномочена составлять Комплект технической документации.
- 10 *** DICZ² är auktoriserat till att utarbejda de tekniska konstruktionsdata.
- 11 *** DICZ² är bemyndigade att sammanställa den tekniska konstruktionsfilen.
- 12 *** DICZ² har tillätselse till a kompilare den tekniske konstruktionsfilen.

- 13 *** DICZ² on valtuutettu laatimaan Teknisen Asiainkian.
- 14 *** Společnost DICZ² má oprávnění ke kompilaci souboru technické konstrukce.
- 15 *** DICZ² je ověřen za zřadu Databáze o lebnické konstrukci.
- 16 *** A DICZ² jogosult a műszaki konstrukciós dokumentáció összeállítására.
- 17 *** DICZ² má upowaznienie do zbierania dokumentacji konstrukcyjnej.
- 18 *** DICZ² este autorizat sa completeze Dosarul Tehnic de constructie.

CE - DECLARACIÓN-DE-CONFORMIDAD
CE - ILMOITUS-YHDENMUKAISUDESTA
CE - OVERENSSTEMMELSESESKLERING
CE - FORSKRAN-OM-ÖVERENSSTÄMMELSE

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

- 09 (66) заверит, исключительнo под свою ответственность, что модели кондиционеров воздуха, к которым относится настоящее заявление:
- 10 (66) erklærer under ensarsvar, at klimaanlægsmødelene, som denne deklaration vedrører:
- 11 (66) déclarear i egenskap av huvudsansvar, att luftkonditioneringsmodellerna som berörs av denna deklaration innebär att:
- 12 (66) erklærer et fulstændigt ansvar for at de luftkonditioneringsmodeller som berøres af denne deklarasjonen, innebærer at:
- 13 (66) ilmoittaa yksinomaan omalla vastuullaan, että läänin ilmoituksen tarkoituksellisesti ilmoitettujen mallit:
- 14 (66) prohlásuje ve své plné odpovědnosti, že modely klimatizace, k nimž se této prohlášení vztahuje:
- 15 (66) izjavlja pod isključivo vlastitom odgovornostju da su modeli klima uređaja na koje se ova izjava odnosi:
- 16 (66) teljes felelősséggel tudatában kijelenti, hogy a klimatizációs modellek, melyekre e nyilatkozati vonatkozik:

- 13 vastavaat seuraavien standardien ja muiden ohjeellisten dokumenttien vaatimukset edellyttäen, että näitä käytetään ohjeellisesti mukaisesti:
- 14 za predložku, že jsou vyvířeny v souladu s našimi pokyny, odpovídají následujícím normám nebo normativním dokumentům:
- 15 u skladu sa sledjećim standardom (ima) ili drugim normativnim dokumentom (ima), uz uvjet da se oni koriste u skladu s našim uputama:
- 16 megjelölnek az alábbi szabvány(ok)nak vagy egyéb irányadó dokumentum(ok)nak, ha azokat előlások szerint használják:

Machinery Compatibility 2014/30/EU *
Electromagnetic Compatibility 2014/30/EU *
Pressure Equipment 2014/68/EU **
Low Voltage 2014/35/EU

- 15 * jako je doženo u <> i pozitivno ocjenjeno od strane <> prema **Certifikatu** <>
- ** kao je doženo u Databazi o lebnické konstrukci <> i pozitivno ocjenjeno od strane <> (Prijmljen modul <>) prema **Certifikatu** <>
- 16 * a(z) alapján, a(z) <> igazolta a megjelölést, a(z) <> bismutvány szerint.
- ** a(z) műszaki megjelölést (akármelyik modul <>) a(z) igazolta a megjelölést (akármelyik modul <>) a(z) <> bismutvány szerint. Viszélyességi kategória <>.
- 17 Last meg a következő oldalon.
- ** ngau on nakadul tehnikasa dokumentatsionis <> ja heaks kiidetul <> <> jäigi (leamodul <>) vastavalt **sertifikatsioonile**.
- 18 * kaip nurodyta <> ir kaip begijama nuslygta <> pagal atitinkamą sąlygą.
- ** kaip nurodyti techninėje konstrukcijos byloje <> ir patvirtinti <> (taikomas modulis <>) pagal patvirtintą sąlygą.
- 19 * kol je doženo u <> u odobreno s strani <> v skladu s **ovrednotim** <>
- ** kol je doženo u tehnični mag <> u odobreno s strani <> (uporabljen modul <>) v skladu s **ovrednotim** <>
- 20 * ngau on nakadul dokumentis <> ja heaks kiidetul <> jäigi vastavalt **sertifikatsioonile** <>
- ** ngau on nakadul tehnikasa dokumentatsionis <> ja heaks kiidetul <> <> jäigi (leamodul <>) vastavalt **sertifikatsioonile**.
- 21 * kako e izovieno s <> u ocjeneno pozitivno ot <> samacho **Certifikatu** <>
- ** kako e izovieno s Arta za tehničeskú konstrukciu <> u ocjeneno pozitivno ot <> (Prijemný modul <>) samacho **Certifikatu** <>
- 22 * kaip nustatyta <> ir kaip begijama nuslygta <> pagal atitinkamą sąlygą.
- ** kaip nurodyti techninėje konstrukcijos byloje <> ir patvirtinti <> (taikomas modulis <>) pagal patvirtintą sąlygą.
- 23 * ka noradit <> an atitoditi <> pozitifniagam veltijumam saskaia su **sertifikatu** <>
- ** ka norėkts tehnišką dokumentaciją <> atitoditi <> pozitifniagam leimamam (jei tiklga satala <>) ka aplėkama **sertifikats** <>

- 19 *** DICZ² je poslažen za sestavo datoteke s tehničko mapo.
- 20 *** DICZ² on valtuutud koostama tehnilisi dokumentatsiooni.
- 21 *** DICZ² e ompruukpata pa osvetai Arta za tehničeskú konstrukciu.
- 22 *** DICZ² yra galioja sudaryti šį techninės konstrukcijos failą.
- 23 *** DICZ² i autorizatsi sastadi tehniško dokumentaciją.
- 24 *** Spoločnosť DICZ² je oprávnená vytvoriť súbor technickej konštrukcie.
- 25 *** Teknik Yapı Dosyasını derlemeye yetkilidir.

CE - ATTIKTIKTES-DEKLARACIJA
CE - VASTAVUSEDEKLARACIJA
CE - VYHLÁSENIE-ZHODY
CE - UYGUNLUK-BEYANI

CE - IZJAVA O SKLADENOSTI
CE - VASTAVUSEDEKLARACIJA
CE - DEKLARACIJA-ZA-CYBTOBTETCTBME

- 17 (66) deklaruje na vlastnu lyvážnostu odpovědnostnost, že modely klimatizátorů, kterých dotyczy nížejsza deklaracja:
- 18 (66) déclaree par proprie responsabilité de l'appareils de air conditionné à care se referă această declarație:
- 19 (66) kinnibab oma täieliku vastutuse, et klassidev deklaratsiooni alla kuuluvad klimaseadmed moodelid:
- 20 (66) deklarirova na oson ootsoobpust, et moodeline kinnitatakse kinnitamine, za kormi ce omnetsi tavu leonapauru:
- 21 (66) vishisa saravo atsakomybe skiebda, kad oro kondicionavimo prietaisų modeliai, kuriems yra taikoma ši deklaracija:
- 22 (66) avširo atbildu aplēcija, ka tālāk uzskaitāmo modeļu gaisa kondicionēlāji, uz kuriem attiecas šī deklarācija:
- 23 (66) vyhlásje na vlastnu zodpovednost, že tieto klimatizačné modely, na ktoré sa vzťahuje toto vyhlásenie:
- 24 (66) lanamen kendi sorumluluğunda olmak üzere bu bildirimi ilgili oluldu. Klima modellerinin aşağıdaki gibi olulduğunu beyan eder:

- 21 conformitazar na osprehu standardov inih drugih normativnih dokumentov, pri čemur, če se uporablja samostojno namre instrukcijam:
- 22 atitinka žemiau nurodytus standartus ir (arba) kitus norminius dokumentus su sąlyga, kad yra naudojami pagal mūsų nurodymus:
- 23 bet, ja teisi atbilstoši razbija noradījumam, atbilst sekojdošiem standartam un citiem normatīviem dokumentiem:
- 24 su v žibde s naseidovou (ym) normom (am) alebo nym (i) normatívnymi dokumentom (i), za predpokladu, že sa používajú v súlade s našimi nariadeniami:
- 25 grūtin, laikinamizma gūo kulinamiz, kosulyta apsaugodiki standartar ir norm beileitne begileite vyimuldar:
- 10 Direktiv, med senere ændringer.
- 11 Direktiv, med foretagne ændringer.
- 12 Direktiv, med forordnede ændringer.
- 13 Direktive, sešins kune ovat mueltitula.
- 14 v planēim žinēti.
- 15 Smeigence, kako je izmjenjeno.
- 16 iatlyv (ek) iš modulisak rendeležesėl.
- 17 v požnježymji popravkami.
- 18 Direktivelor, cu amendamentele respective.
- 19 Directive, as amended.
- 20 Direktiv, med senere ændringer.
- 21 Direktiv, med foretagne ændringer.
- 22 Direktiv, med forordnede ændringer.
- 23 Direktive, sešins kune ovat mueltitula.
- 24 Smeigence, kako je izmjenjeno.
- 25 Degūstinis šaltinis "Yonetmeliker."

- 24 * ako bolo uvedené v <> a pozitive zistené <> v súlade s **ovrednotim** <>
- ** ako je istonoreno v Súloze lebnické konstrukcie <> a kladne poslažené <> (Apkovaný modul <>) podľa **Certifikatu** <>
- 25 * <> ta como estabelecido em <> e como parecer positivo de <> de acordo com o **Certificado** <>
- ** ta como estabelecido no Ficheiro Técnico de Construção <> e como parecer positivo de <> (Modulo aplicado <>) de acordo com o **Certificado** <>
- 04 * zoals vermeld in <> en positief beoordeeld door <>
- ** zoals vermeld in het Technisch Constructiedossier <> overeenkomstig bevoinden door <> (Begepaste module <>) overeenkomstig **Certificaat** <>
- 05 * como se establece en <> y es valorado positivamente por <> de acuerdo con el **Certificado** <>
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- ** ngau on nakadul tehnikasa dokumentatsionis <> ja heaks kiidetul <> <> jäigi (leamodul <>) vastavalt **sertifikatsioonile**.
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- 24 *** Spoločnosť DICZ² je oprávnená vytvoriť súbor technickej konštrukcie.
- 25 *** Teknik Yapı Dosyasını derlemeye yetkilidir.

Safety Precautions

	Read the precautions in this manual carefully before operating the unit.		This appliance is filled with R32.
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- The precautions described herein are classified as WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.
- Meaning of WARNING and CAUTION notices

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

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

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

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

- After completing installation, conduct a trial operation to check for faults and explain to the customer how to operate the air conditioner and take care of it with the aid of the operation manual.
- The original instructions are written in English. All 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.	
• Only use accessories, optional equipment and spare parts made or approved by Daikin.	
• 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 cover can be securely fastened. Improper positioning of the control box cover may result in electric shocks, fire or over heating terminals.	
• If the supply cord is damaged, it must be replaced by the manufacturer, a service agent or similarly qualified persons in order to avoid a hazard.	
• If refrigerant gas leaks during installation, ventilate the area immediately. Toxic gas may be produced if the refrigerant gas 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 (R32). The presence of air or other foreign matter in the refrigerant circuit causes abnormal pressure rise, which may result in equipment damage and even injury.	
• During installation, attach the refrigerant piping securely before running the compressor. If the refrigerant pipes are not attached and the stop valve is open when the compressor is run, air will be sucked in, causing abnormal pressure in the refrigeration cycle, which may result in equipment damage and even injury.	
• During pump-down, stop the compressor before removing the refrigerant piping. If the compressor is still running and the stop valve is open during pump-down, air will be sucked in when the refrigerant piping is removed, causing abnormal pressure in the refrigeration cycle, which may result in equipment damage and even injury.	
• Be sure to earth the air conditioner. Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shocks.	
• Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks or fire.	
• Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.	

Safety Precautions

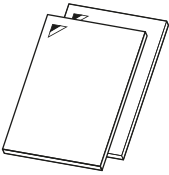
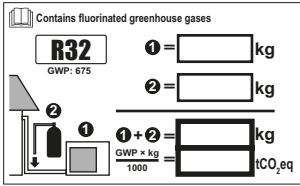
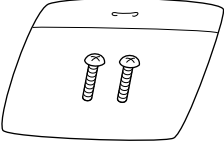
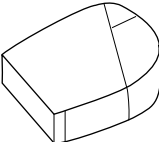
- The appliance must be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odour.
- This appliance must be installed, operated and stored in a room larger than the minimum required floor area.
- Comply with national gas regulations.

CAUTION

- Do not install the air conditioner at any place where there is a danger of flammable gas leakage.
In the event of a gas leakage, build-up of gas near the air conditioner may cause a fire to break out.
- While following the instructions in this installation manual, install drain piping to ensure proper drainage and insulate piping to prevent condensation.
Improper drain piping may result in indoor water leakage and property damage.
- Tighten the flare nut according to the specified method such as with a torque wrench.
If the flare nut is too tight, it may crack after prolonged use, causing refrigerant leakage.
- Make sure to provide for adequate measures in order to prevent that the outdoor unit be used as a shelter by small animals.
Small animals making contact with electrical parts can cause malfunctions, smoke or fire. Please instruct the customer to keep the area around the unit clean.
- The temperature of refrigerant circuit will be high, please keep the inter-unit wire away from copper pipes that are not thermally insulated.
- This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial and household use by lay persons.
- Sound pressure level is less than 70 dB(A).
- Provide a logbook and machine card.
In accordance with the applicable legislation, it may be necessary to provide a logbook with the equipment containing at least: info on maintenance, repair work, results of tests, stand-by periods, ...
- The following information shall be provided at an accessible place of the system:
 - instructions for shutting down the system in case of an emergency
 - name and address of fire department, police and hospital
 - name, address and day & night telephone numbers for obtaining service.
 In Europe, EN378 provides the necessary guidance for this logbook.

Accessories

Accessories supplied with the outdoor unit:

Ⓐ Installation Manual + R32 manual  It is on the bottom of the packing case.	1	Ⓑ Refrigerant charge label  It is on the bottom of the packing case.	1
Ⓒ Drain plug  It is on the bottom of the packing case.	1	Ⓓ Multilingual fluorinated greenhouse gases label  It is on the bottom of the packing case.	1
Ⓔ Screw bag (for fixing the wire retainer)  It is on the bottom of the packing case.	1	Ⓕ Reducer assembly (only 50 class)  It is on the bottom of the packing case.	1

Precautions for Selecting the Location

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

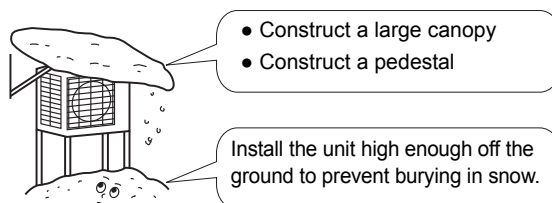
NOTE

Cannot be installed hanging from ceiling or stacked.

⚠ CAUTION

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

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

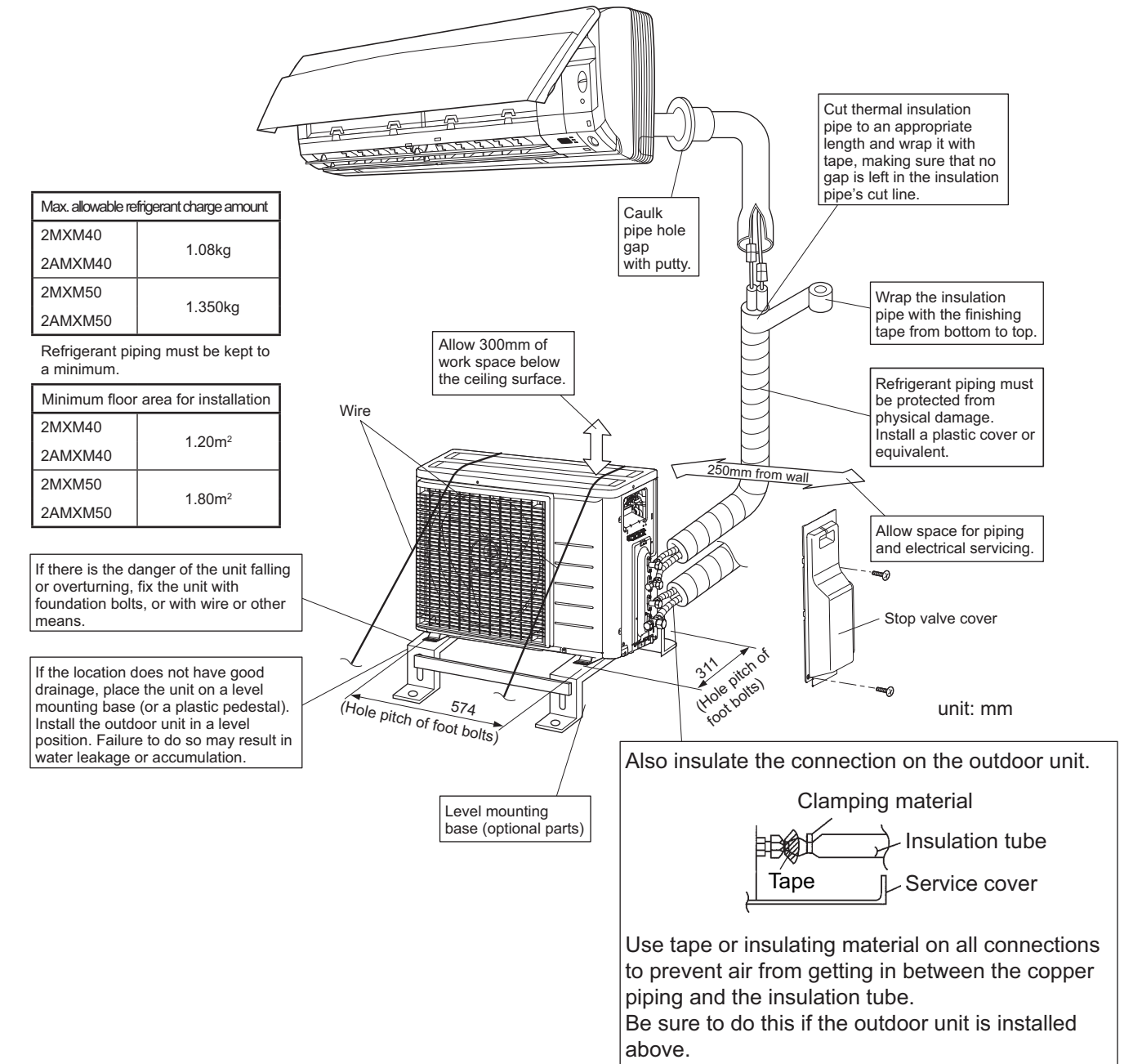


Indoor/Outdoor Unit Installation Drawings

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

CAUTION

- Do not connect the embedded branch piping and the outdoor unit when only carrying out piping work without connecting the indoor unit in order to add another indoor unit later.
Make sure no dirt or moisture gets into either side of the embedded branch piping.
See “Precautions for Laying Refrigerant Piping” on page 10 for details.
- It is impossible to connect the indoor unit for one room only. **Be sure to connect at least 2 rooms.**



Installation

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

1. Connections (connection port)

Install the indoor unit according to the table below, which shows the relationship between the class of indoor unit and the corresponding port.

The total indoor unit class that can be connected to this unit:

Heat pump type: $\left. \begin{array}{l} 2\text{AMXM40M}^* \\ 2\text{MXM40M}^* \end{array} \right\} \text{Up to 6.0kW}$ $\left. \begin{array}{l} 2\text{AMXM50M}^* \\ 2\text{MXM50M}^* \end{array} \right\} \text{Up to 8.5kW}$

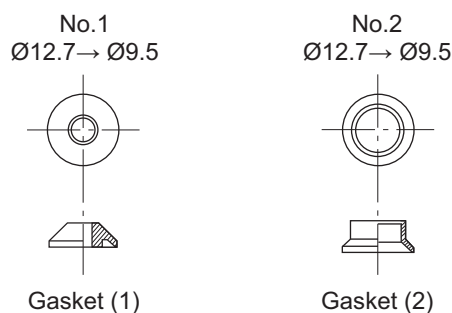
Port	2AMXM40M* 2MXM40M*	2AMXM50M* 2MXM50M*
A	15, 20, 25, 35	15, 20, 25, 35, 42
B	15, 20, 25, 35	15 , 20 , 25 , 35 , 42, 50

 : Use a reducer to connect pipes.

 : Optional accessory

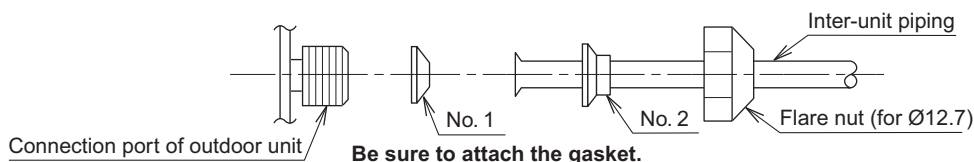
Refer to "How to Use Reducers" for information on reducer numbers and their shapes.

How to Use Reducers



Use the reducers supplied with the unit as described below.

- Connecting a pipe of Ø9.5 to a gas pipe connection port for Ø12.7:

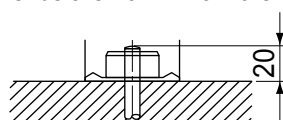


- When using the reducer packing shown above, be careful not to overtighten the nut, or the smaller pipe may be damaged. (about 2/3 - 1 the normal torque)
- Apply a coat of refrigeration oil to the threaded connection port of the outdoor unit where the flare nut comes in.
- Use an appropriate wrench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

Flare nut tightening torque	
Flare nut for Ø12.7	49.5–60.3N·m (505–615kg-f·cm)

Precautions on Installation

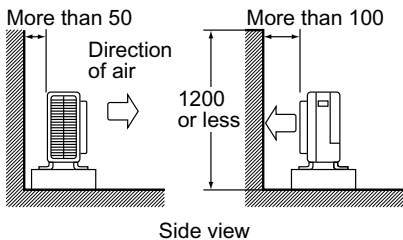
- Check the strength and level of the installation ground so that the unit will not cause any operating vibration or noise after installed.
- In accordance with the foundation drawing in fix the unit securely by means of the foundation bolts. (Prepare 4 sets of M8 or M10 foundation bolts, nuts and washers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



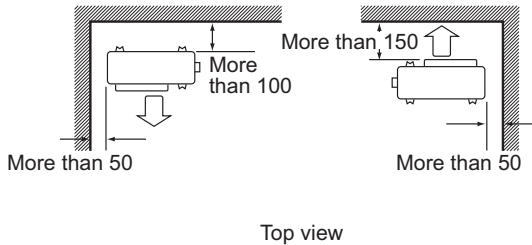
Outdoor Unit Installation Guideline

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

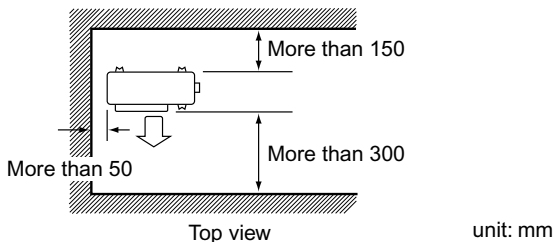
Wall facing one side



Walls facing two sides



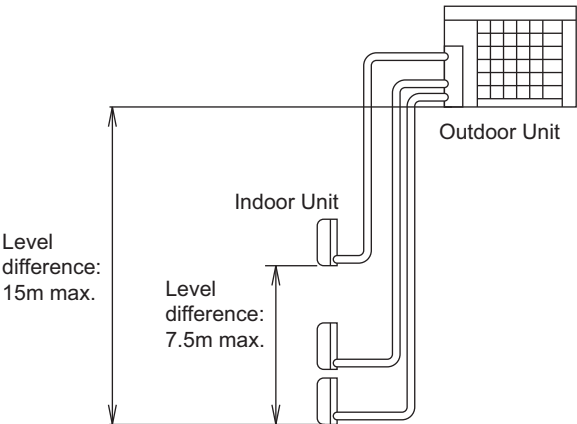
Walls facing three sides



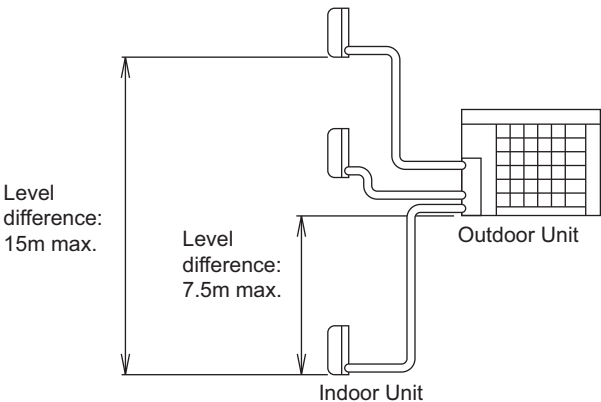
Selecting a Location for Installation of the Indoor Units

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

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



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



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

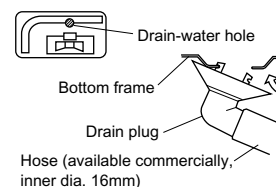
Refrigerant Piping Work

1. Installing outdoor unit

- 1) When installing the outdoor unit, refer to "Precautions for Selecting the Location" on page 3 and the "Indoor/Outdoor Unit Installation Drawings" on page 4.
- 2) If drain work is necessary, follow the procedures below.

2. Drain work

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

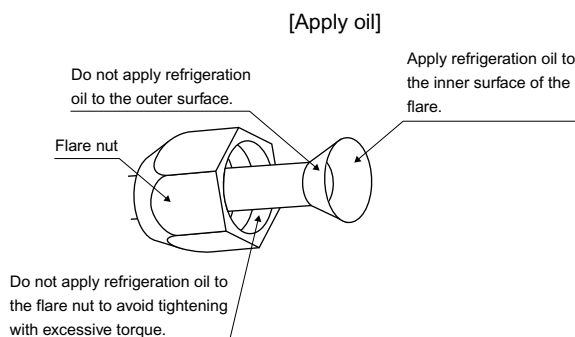


3. Refrigerant piping

CAUTION

- Use the flare nut fixed to the main unit. (To prevent cracking of the flare nut by aged deterioration.)
- To prevent gas leakage, apply refrigeration oil only to the inner surface of the flare. (Use refrigeration oil for R32.)
- Use torque wrenches when tightening the flare nuts to prevent damage to the flare nuts and gas leakage.
- Do not reuse joints which have been used once already.
- Installation shall be done by an installer, the choice of materials and installation shall comply with the applicable legislation. In Europe the EN378 is the applicable standard that shall be used.
- Ensure that the field piping and connections are not subjected to stress.

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	
Flare nut for $\phi 6.4$	14.2-17.2N • m (144-175kgf • cm)
Flare nut for $\phi 9.5$	32.7-39.9N • m (333-407kgf • cm)
Flare nut for $\phi 12.7$	49.5-60.3N • m (505-615kgf • cm)

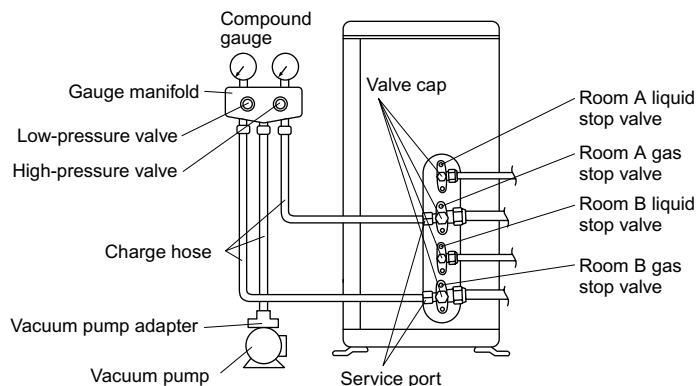
Valve cap tightening torque		
Gas side		Liquid side
3/8 inch	1/2 inch	1/4 inch
21.6-27.4N • m (220-280kgf • cm)	48.1-59.7N • m (490-610kgf • cm)	21.6-27.4N • m (220-280kgf • cm)
Service port cap tightening torque		
10.8-14.7N • m (110-150kgf • cm)		

Refrigerant Piping Work

4. Purging air and checking gas leakage

⚠ WARNING

- Do not mix any substance other than the specified refrigerant (R32) into the refrigeration cycle.
 - When refrigerant gas leaks occur, ventilate the room as soon and as much as possible.
 - R32, as well as other refrigerants, should always be recovered and never be released directly into the environment.
 - Be sure to check for gas leaks.
 - During tests never pressurize the appliances with a pressure higher than the maximum allowable pressure (as indicated on the nameplate of the unit).
 - Never directly touch any accidental leaking refrigerant. This could result in severe wounds caused by frostbite.
-
- When piping work is completed, it is necessary to purge the air and check for gas leakage.
 - Be sure to perform vacuum pumping for all the rooms at the same time.
 - Be sure to use the special tools for the R32 (gauge manifold, charge hose, vacuum pump, vacuum pump adapter, etc.).
 - Use a hexagonal wrench (4mm) to operate the stop valve rod.
 - All refrigerant pipe joints should be tightened with a torque wrench at the specified tightening torque.
- 1) Connect the charge hose protrusions (the side for pushing the pin) for low pressure and high pressure on the gauge manifold to the gas stop valve service port for rooms **A and B**.
 - 2) Fully open gauge manifold's low-pressure valve (Lo) and high-pressure valve (Hi).
 - 3) Apply vacuum pumping for 20 minutes or longer. Check that the compound pressure gauge reads -0.1MPa (-76cmHg).
 - 4) After checking the vacuum, close the low pressure and high pressure valves on the gauge manifold and stop the vacuum pump. (Leave as is for 4-5 minutes and make sure the coupling meter needle does not go back.) If it does go back, this may indicate the presence of moisture or leaking from connecting parts.
After inspecting all the connection and loosening then retightening the nuts, repeat steps 2) → 3) → 4).
 - 5) Remove the valve caps on the liquid and gas stop valves at the pipes for rooms A and B.
 - 6) Open the valve rods on the liquid stop valves for rooms A and B by turning them 90° counterclockwise using a hex wrench. Close them 5 seconds later and check for gas leaks.
After checking for gas leaks, check the areas around flares on the indoor unit, and the areas around flares and valve rods on the outdoor unit by applying soapy water.
Wipe down thoroughly after the check is complete.
 - 7) Remove the charge hose from the gas stop valve service ports at the pipes for rooms A and B and completely open the liquid and gas stop valves at the pipes for rooms A and B.
(Stop the valve rods as far as they go and do not attempt to turn them any further.)
 - 8) Use a torque wrench to tighten the valve caps and service port caps on the liquid and gas stop valves at the pipes for rooms A and B to the designated torque.



Refrigerant Piping Work

5. Charging refrigerant

1-1. Charging additional refrigerant

- If the total length of refrigerant piping exceeds 20m, add refrigerant. (The maximum total length of refrigerant piping for all rooms is 30m.)

A

B

A: Amount to add
B: Length of refrigerant piping minus 20. (Total for all rooms)

g=20X

1-2. Completely recharging refrigerant

- The total amount that must be added is the amount listed on the machine nameplate and the amount of the additional refrigerant.

Important information regarding the refrigerant used

This product contains fluorinated greenhouse gases.
Do not vent gases into the atmosphere.

Refrigerant type: **R32**
GWP⁽¹⁾ value: **675** (⁽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
■ tCO₂e calculation according to the formula (rounded up to 2 decimal places)
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

R32
GWP: 675

① = kg

② = kg

①+② = kg

GWP × kg

1000

= tCO₂e

5

6

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

2 additional refrigerant amount charged in the field

3 total refrigerant charge

4 greenhouse gas emissions of the total refrigerant charge expressed as tonnes CO₂-equivalent

5 refrigerant cylinder and manifold for charging

6 outdoor unit

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.

! NOTICE

In Europe, the **greenhouse gas emissions** of the total refrigerant charge in the system (expressed as tonnes CO₂-equivalent) is used to determine the maintenance intervals. Follow the applicable legislation.

Formula to calculate the greenhouse gas emissions:

GWP value of the refrigerant × Total refrigerant charge [in kg] / 1000

Use the GWP value mentioned on the refrigerant charge label. This GWP value is based on the 4th IPCC Assessment Report. The GWP value mentioned in the manual might be outdated (i.e., based on the 3rd IPCC Assessment Report).

! CAUTION

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

Precautions for compressor

! WARNING	
	Electric shock hazard - Use this compressor on a grounded system only. - Turn power OFF before servicing. - Replace terminal cover before applying power.
	Injury hazard Wear protective goggles.
	Explosion or fire hazard - Use tubing cutter to remove compressor. - Do NOT use torch. System contains refrigerant under pressure. - Do NOT drive under air or vacuum condition. - Use only approved refrigerants and lubricants.
	Burn hazard Do NOT touch with bare hands during or immediately following operation.

English

9

Refrigerant Piping Work

Precautions for Laying Refrigerant Piping

• Cautions on pipe handling

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

• Selection of copper and heat insulation materials

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

- 1) Insulation material: Polyethylene foam

Heat transfer rate: 0.041 to 0.052W/mK (0.035 to 0.045kcal/mh°C)

Refrigerant gas pipe's surface temperature reaches 110°C max.

Choose heat insulation materials that will withstand this temperature.

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

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

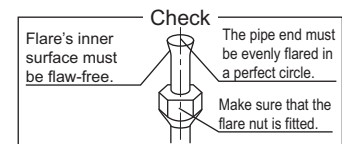
- 3) Use separate thermal insulation pipes for gas and liquid refrigerant pipes.
- 4) Piping and other pressure containing parts shall comply with the applicable legislation and shall be suitable for refrigerant. Use phosphoric acid deoxidised seamless copper for refrigerant.

• 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.

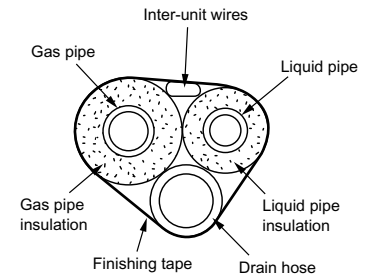
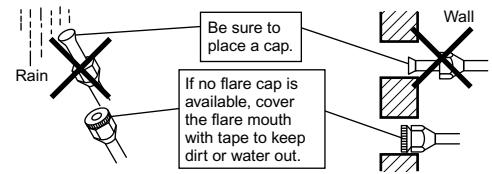


Flaring			
Set exactly at the position shown below.			
	Flare tool for R32 or R410A	Conventional flare tool	
	Clutch-type	Clutch-type (Ridgid-type)	Wing-nut type (Imperial-type)
A	0-0.5mm	1.0-1.5mm	1.5-2.0mm



⚠ WARNING

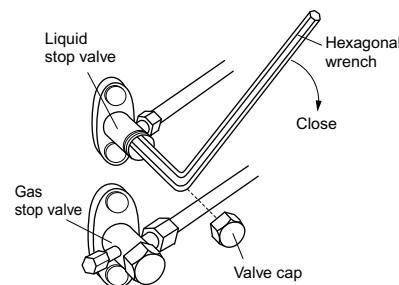
- Do not use mineral oil on flared part.
- Prevent mineral oil from getting into the system as this would reduce the lifetime of the units.
- Never use piping which has been used for previous installations. Only use parts which are delivered with the unit.
- Never install a dryer to this R32 unit in order to guarantee its lifetime.
- The drying material may dissolve and damage the system.
- Incomplete flaring may cause refrigerant gas leakage.
- Protect or enclose refrigerant tubing to avoid mechanical damage.



Pump Down Operation

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

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



⚠ CAUTION

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

1. Forced cooling operation

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

- 1) Press the start/stop button on the indoor unit in either room A or B for 5 seconds continuously. The units in both rooms will start.
- 2) Forced cooling operation will end after around 15 minutes and the unit will stop automatically. Press the start/stop button on the indoor unit to force the operation to stop.

1-2. Using the indoor unit's remote controller

Perform the test operation with the operation mode set to cooling. For the test operation procedure read the installation manual attached to the indoor unit and the manual of the remote controller.

- Forced cooling operation will stop automatically after around 30 minutes. To stop the operation, press the ON/OFF button.

⚠ CAUTION

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

⚠ WARNING

The unit is accompanied with the label below. Please read the following instructions carefully.



- When the refrigeration circuit has a leak, do not execute pump down with the compressor.
- Use recovery system into separate cylinder.
- Warning, explosive hazard exists when executing pump down.
- Pump down with compressor can lead to self-combustion due to air entering during pump down.

Used symbols:

- 1) Warning sign (ISO 7010 – W001)
- 2) Warning, Explosive material (ISO 7010 – W002)
- 3) Read Operator's manual (ISO 7000 – 0790)
- 4) Operator's manual; operating instructions (ISO 7000 – 1641)
- 5) Service indicator; read technical manual (ISO 7000 – 1659)

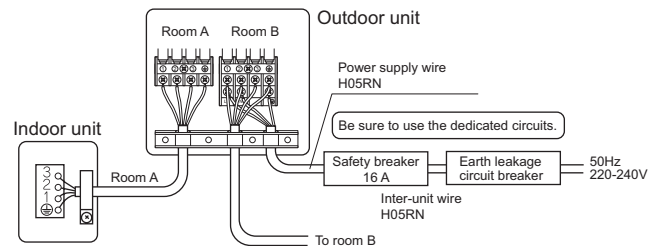
Wiring

⚠ WARNING

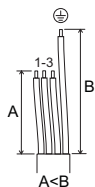
- Do not use tapped wires, stranded wires (**CAUTION 1**), extension cords, or starburst connections, as they may cause overheating, electrical shock, or fire.
- Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.)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

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

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



⚠ CAUTION

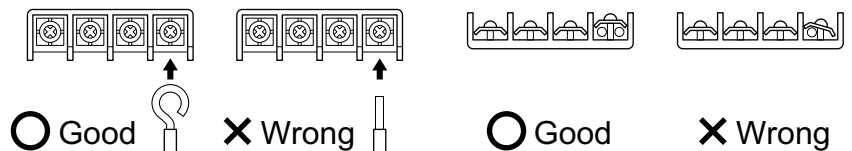


- When connecting the inter-unit wire to the terminal block using a single core wire, be sure to perform curling. Problems with the work may cause heat and fires.
- Make sure that the earth wire between the pull relief and terminal is longer than the other wires.

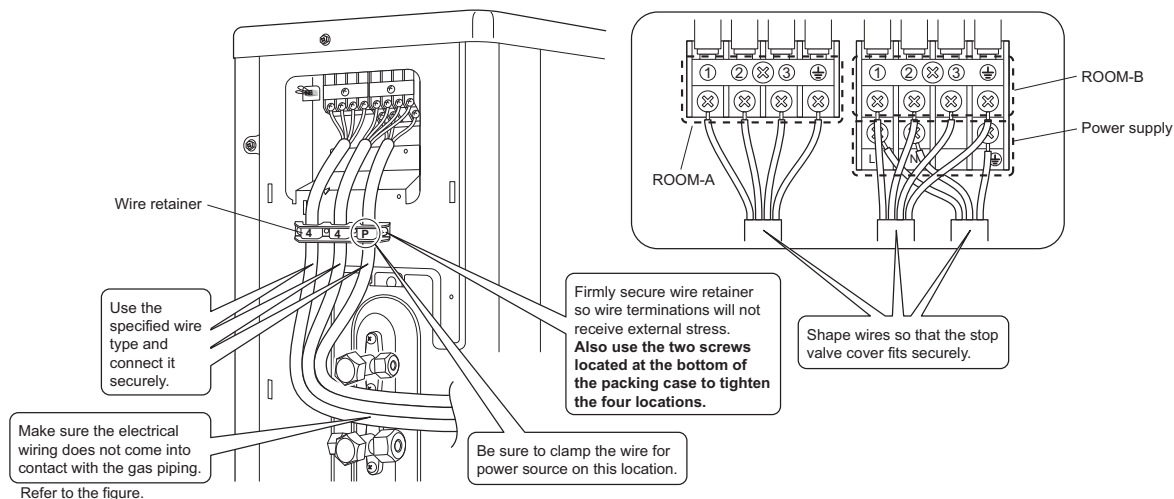
Round crimp-style terminal



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

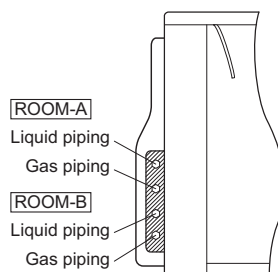


- 3) Pull the wire and make sure that it does not disconnect. Then fix the wire in place with a wire retainer.



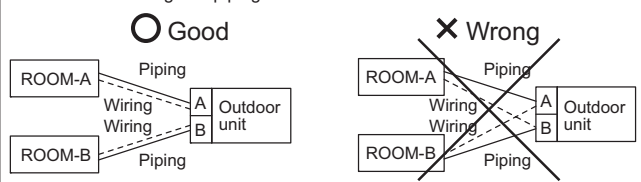
Make sure the connecting piping and wiring fit into .

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



Make absolutely sure all wiring is correct.

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



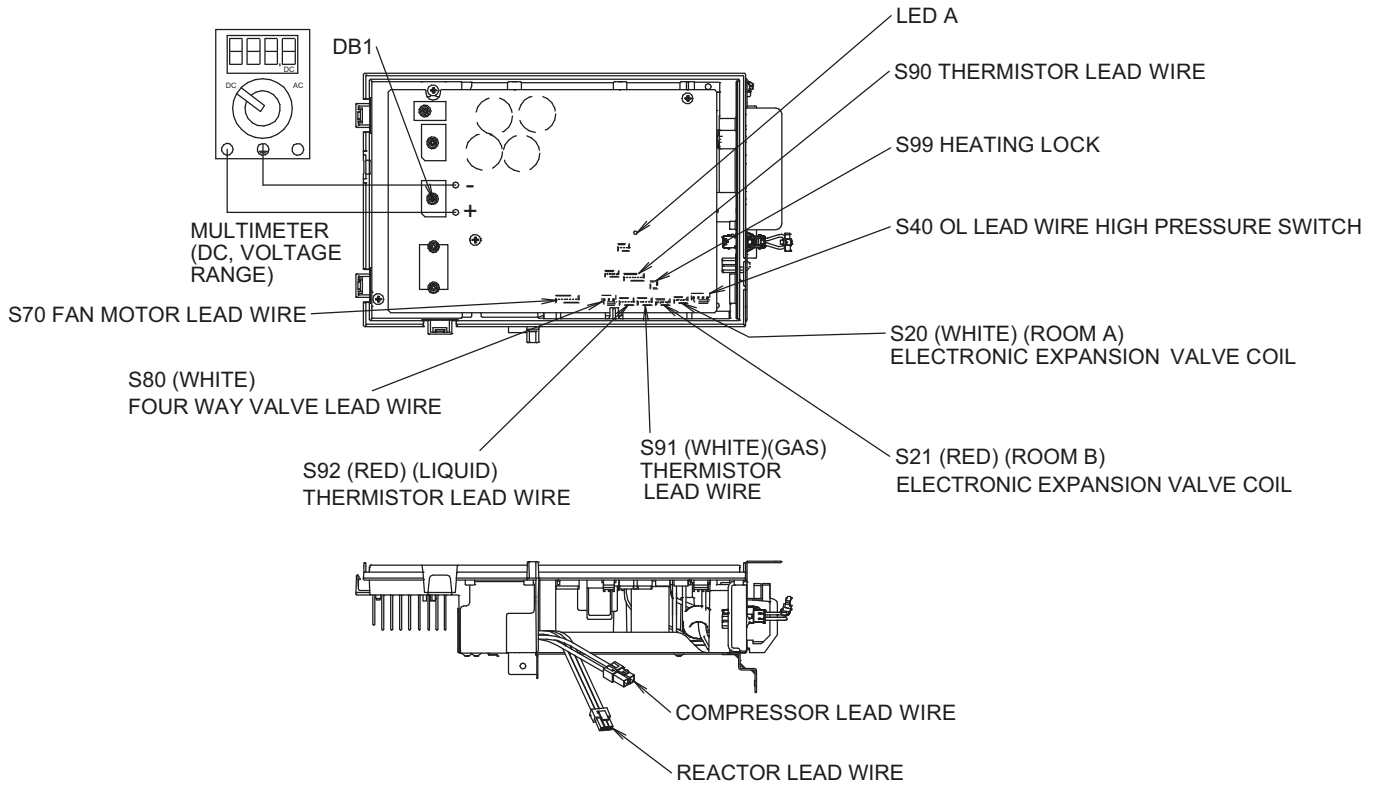
Wiring

1. Safe handling of high voltage part

- Turn the circuit breaker off and wait for 10 minutes before servicing.

1-1. To prevent electrical shock

- Use tester to check that the voltage between '+' and '-' is 50V or less. (Refer to figure below for the locations to check.)
- The surface of the test points (+, -) may be covered with coating.
- Be sure to make firm contact between tester probes and test points.

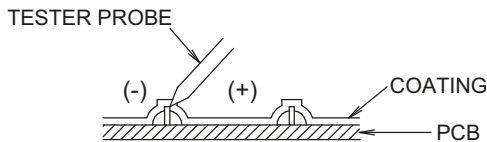


⚠ WARNING

All circuitry including thermistor is subject to power supply voltage.

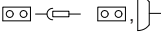
2. Reconnecting after check

- When reconnecting, be sure to reconnect everything the same way as it was before.



Wiring

Wiring diagram

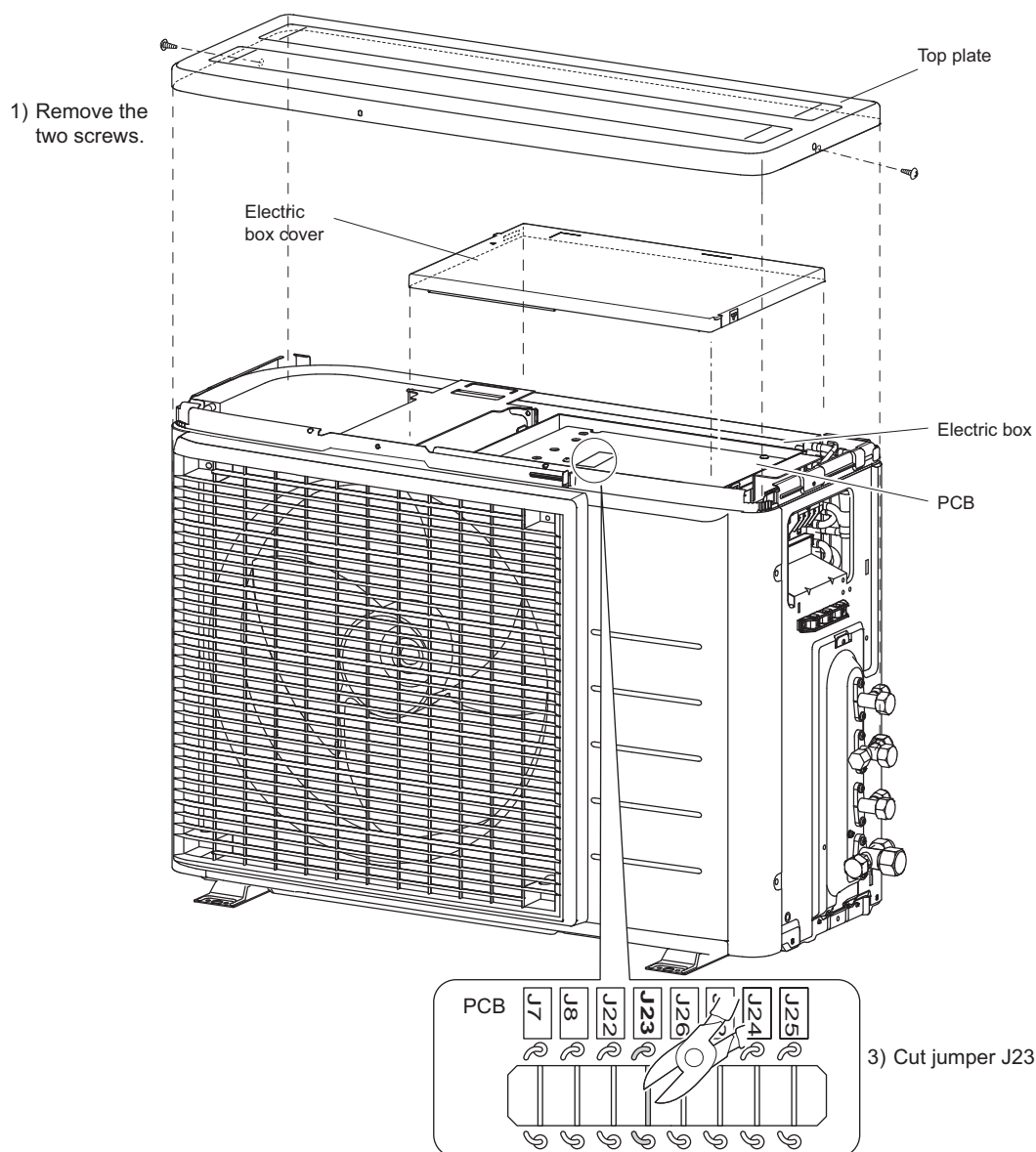
Unified Wiring Diagram Legend			
For applied parts and numbering refer to the wiring diagram sticker supplied on the unit. Part numbering is realized by Arabic numbers in ascending order for each part and is represented in the overview below by symbol "*" in the part code.			
	: CIRCUIT BREAKER		: PROTECTIVE EARTH
	: CONNECTION		: PROTECTIVE EARTH (SCREW)
	: CONNECTOR		: RECTIFIER
	: EARTH		: RELAY CONNECTOR
	: FIELD WIRING		: SHORT CIRCUIT CONNECTOR
	: FUSE		: TERMINAL
	: INDOOR UNIT		: TERMINAL STRIP
	: OUTDOOR UNIT		: WIRE CLAMP
BLK : BLACK	GRN : GREEN	PNK : PINK	WHT : WHITE
BLU : BLUE	GRY : GREY	PRP, PPL : PURPLE	YLW : YELLOW
BRN : BROWN	ORG : ORANGE	RED : RED	
A*P : PRINTED CIRCUIT BOARD	PS : SWITCHING POWER SUPPLY		
BS* : PUSH BUTTON ON / OFF, OPERATION SWITCH	PTC* : THERMISTOR PTC		
BZ, H*O : BUZZER	Q* : INSULATED GATE BIPOLAR TRANSISTOR (IGBT)		
C* : CAPACITOR	Q*DI : EARTH LEAK CIRCUIT BREAKER		
AC*, CN*, E*, HA*, HE, HL*, HN*, HR*, MR*_A, MR*_B, S*, U, V, W, X*A, K*R_*	Q*L : OVERLOAD PROTECTOR		
D*, V*D : DIODE	Q*M : THERMO SWITCH		
DB* : DIODE BRIDGE	R* : RESISTOR		
DS* : DIP SWITCH	R*T : THERMISTOR		
E*H : HEATER	RC : RECEIVER		
F*U, FU* (FOR CHARACTERISTICS REFER TO PCB INSIDE YOUR UNIT)	S*C : LIMIT SWITCH		
FG* : CONNECTOR (FRAME GROUND)	S*L : FLOAT SWITCH		
H* : HARNESS	S*NPH : PRESSURE SENSOR (HIGH)		
H*P, LED*, V*L : PILOT LAMP, LIGHT EMITTING DIODE	S*NPL : PRESSURE SENSOR (LOW)		
HAP : LIGHT EMITTING DIODE (SERVICE MONITOR GREEN)	S*PH, HPS* : PRESSURE SWITCH (HIGH)		
HIGH VOLTAGE : HIGH VOLTAGE	S*PL : PRESSURE SWITCH (LOW)		
IES : INTELLIGENT EYE SENSOR	S*T : THERMOSTAT		
IPM* : INTELLIGENT POWER MODULE	S*W, SW* : OPERATION SWITCH		
K*R, KOR, KFR, KHuR, K*M	SA*, F1S : SURGE ARRESTOR		
L : LIVE	SR*, WLU : SIGNAL RECEIVER		
L* : COIL	SS* : SELECTOR SWITCH		
L*R : REACTOR	SHEET METAL : TERMINAL STRIP FIXED PLATE		
M* : STEPPER MOTOR	T*R : TRANSFORMER		
M*C : COMPRESSOR MOTOR	TC, TRC : TRANSMITTER		
M*F : FAN MOTOR	V*, R*V : VARISTOR		
M*P : DRAIN PUMP MOTOR	V*R : DIODE BRIDGE		
M*S : SWING MOTOR	WRC : WIRELESS REMOTE CONTROLLER		
MR*, MRCW*, MRM*, MRN*	X* : TERMINAL		
N : NEUTRAL	X*M : TERMINAL STRIP (BLOCK)		
n = *, N = *	Y*E : ELECTRONIC EXPANSION VALVE COIL		
PAM : PULSE-AMPLITUDE MODULATION	Y*R, Y*S : REVERSING SOLENOID VALVE COIL		
PCB* : PRINTED CIRCUIT BOARD	Z*C : FERRITE CORE		
PM* : POWER MODULE	ZF, Z*F : NOISE FILTER		

ECONO Mode Prohibition Setting

WARNING

Always shut off the power supply breaker before starting.

- This setting disables the input control signal from the remote controller.
- Use this setting when you wish to block reception of input controls (cooling/heating) from indoor unit remote controllers.
- Set as follows.
 - 1) Remove the two screws on the side and remove the top plate of the outdoor unit.
 - 2) Remove the electric box cover by sliding it, being careful not to bend the electric box hook.
 - 3) Cut the jumper (J23) of the PCB inside.
 - 4) Go back through step → 2) → 1). Make sure all components are well secured when doing this.



CAUTION

- When returning the electric box cover, be careful not to pinch the fan motor lead wire.

Night Quiet Mode Setting

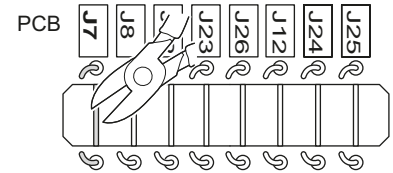
- If night quiet mode is to be used, initial settings must be made when the unit is installed.
Explain night quiet mode, as described below, to the customer, and confirm whether or not the customer wants to use night quiet mode.

About night quiet mode

The night quiet mode function reduces operating noise of the outdoor unit at nighttime. This function is useful if the customer is worried about the effects of the operating noise on the neighbours.
However, if night quiet mode is running, capacity will be saved.

Setting procedure

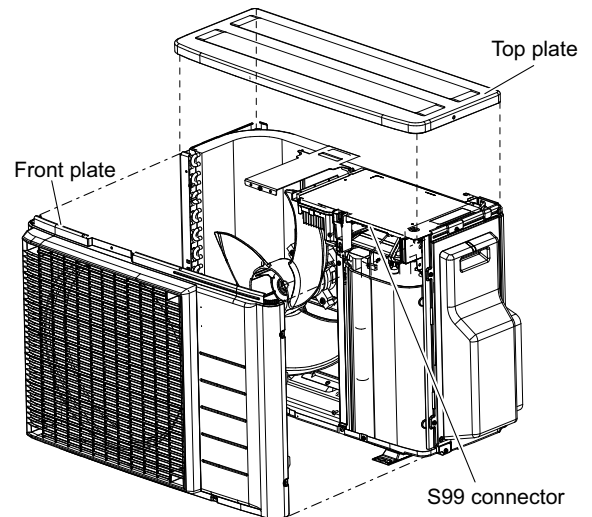
Cut the jumper J7. For more details see figure in Econo Mode setting.



HEAT Mode Lock <S99> (only heat pump models)

- 1) Remove the top plate (2 screws) and the front plate (8 screws).
- 2) Remove the S99 connector for setting of heat mode only.
Plug the connector for H/P mode.
Note that forced operation is also possible in HEAT mode.
- 3) Reinstall the front plate and the top plate to the original positions.

Mode	S99 Connector
H/P	Connect
Heating only	Disconnect



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.

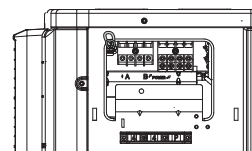
For FTXM, FTXP, FTXJ, FVXM types.

CAUTION

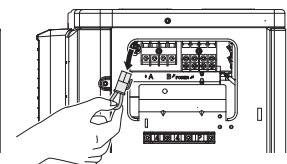
- The standby electricity saving function cannot be used for models other than the specified ones.

■ Procedure for turning on standby electricity saving function

- 1) Check that the main power supply is turned off. Turn it off if it has not been turned off.
- 2) Remove the stop valve cover.
- 3) Remove terminal cover
- 4) Disconnect the selective connector for standby electricity saving.
- 5) 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

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

Trial Operation and Testing

- Before starting the test run, measure the voltage at the primary side of the safety breaker.
- Check that all liquid and gas stop valves are fully open.
- Check that piping and wiring all match.
- Initialization of the Multi system can take several minutes depending on the number of indoor units and options used.

1. Trial operation and testing

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

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

(When running in one room)

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

2. Fault diagnosis by LED on outdoor unit PCB.

	Diagnosis	
	LED is flashing	Normal -> check the indoor unit
	LED is ON	Turn the power OFF and then ON again. If the LED display recurs, the outdoor unit PCB is faulty.
	LED is OFF	Power supply fault or turn the power OFF and then ON again. If the LED display recurs, the outdoor unit PCB is faulty.

3. Items to check

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

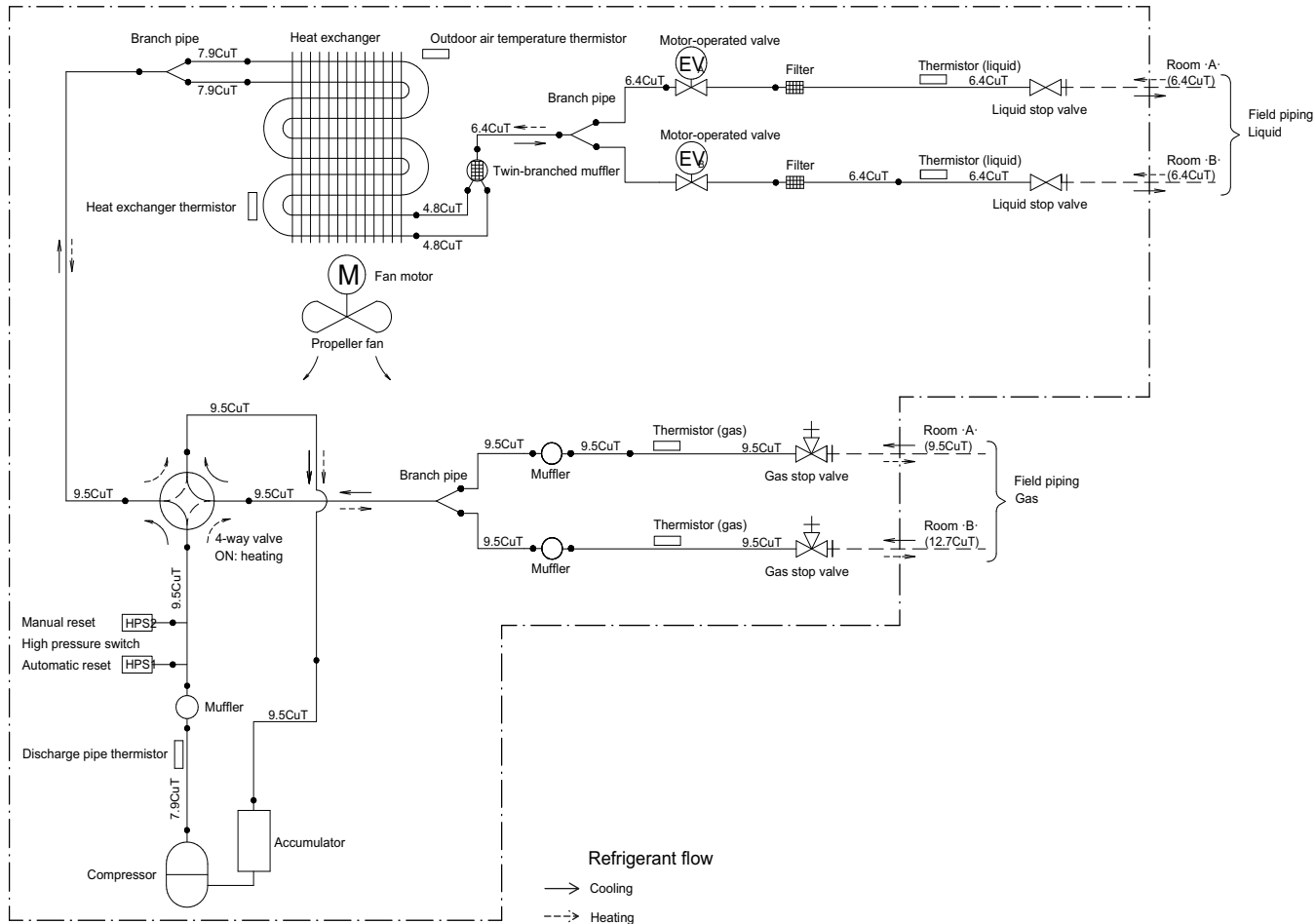
ATTENTION

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

Piping Diagram

Piping diagram for 2MXM50M2V1B9, 2AMXM50M3V1B

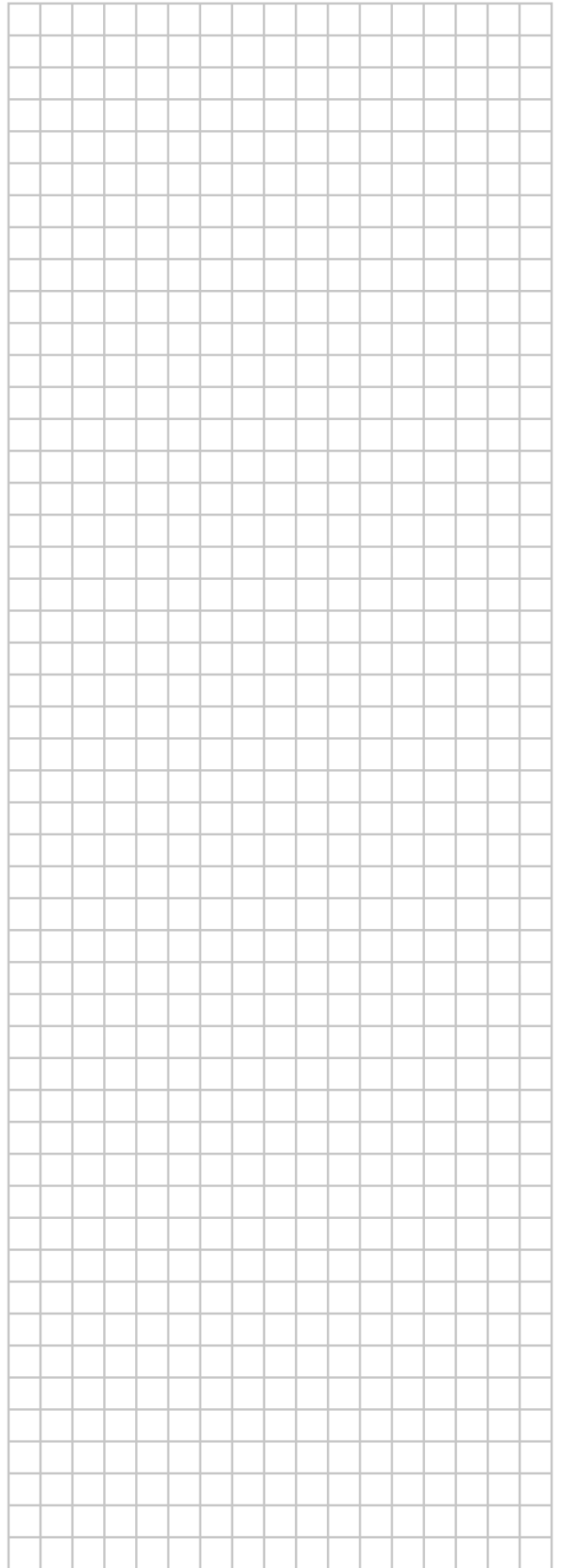
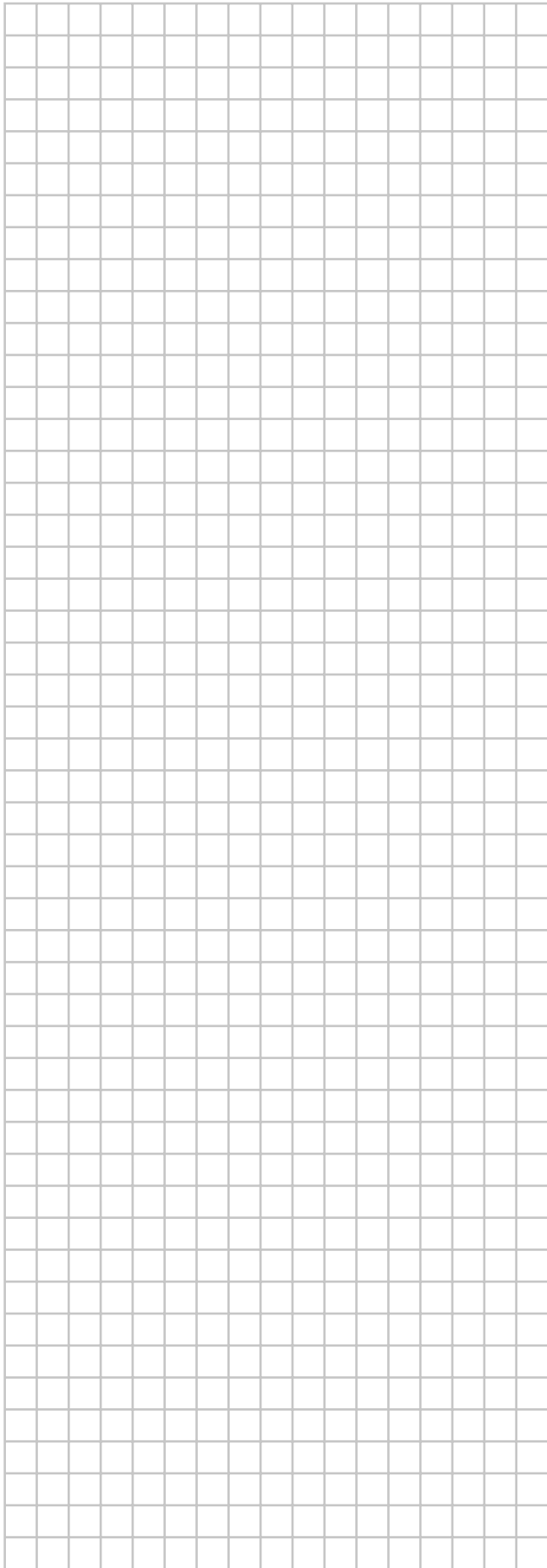
Outdoor unit



PED categories of equipment - High pressure switches: category IV; Compressor: category II; Other art 4§3 equipment.

NOTE:

When the high pressure switch is activated it must be reset manually by a qualified person.



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