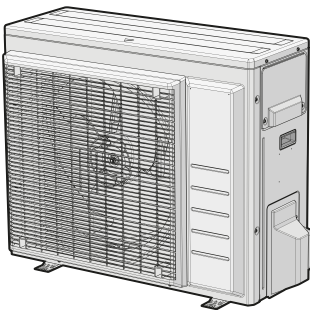




Installation manual

R32 split series



ARXM50N2V1B9
ARXM60N2V1B9
ARXM71N2V1B9

RXM42N2V1B9
RXM50N2V1B9
RXM60N2V1B9

RXM71N2V1B

RXP50M2V1B
RXP60M2V1B
RXP71M2V1B

RXA42B2V1B
RXA50B2V1B

RXF50B2V1B
RXF60B2V1B

RXF71A2V1B

RXJ50N2V1B

CE - DECLARATION OF CONFORMITY CE - KONFORMITÄTSEKLERUNG CE - DICHLARAZIJA O KONFORMITÄT CE - ДИКЛАЗИЈА О КОНФОРМИТЕТ CE - DECLARATION DE CONFORMITE CE - KONFORMITEITSEKLERING	CE - DECLARACÃO DE CONFORMIDADE CE - DECLARAÇÃO DE CONFORMITATE CE - OVERENSSTEMMELINGSVERKLARING CE - FÖRSÄKRAN OM ÖVERENSSTÄMMELSE CE - ERKLÄRUNG OM SAMSVAR CE - ЛАГОТЪСЪВЪРШУВАЕМОСТЪ CE - PROHLÁŠENÍ SHODY CE - IZJAVA O SKLADNOSTI CE - VASTAVUSEKLAPOŠOON CE - DEKLARACIJA ZGODNOSTI CE - DECLARAȚIE DE CONFORMITATE CE - IZJAVA O SKLADNOSTI CE - VASTAVUSEKLAPOŠOON CE - DEKLARACIJA ZGODNOSTI CE - DECLARAȚIE DE CONFORMITATE	CE - ATTIKTES-DEKLARACIJA CE - ATBILSTĪBAS-DEKLARĀCIJA CE - VYHLÁŠENÍ SHODY CE - UYGUNLUK BEYAN									
Daikin Industries Czech Republic s.r.o. 01  declares under its sole responsibility that the air conditioning models to which this declaration relates 02  erklärt auf seine alleinige Verantwortung, daß die Modelle der Klimaanlage für die diese Erklärung bestimmt ist: 03  déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclaration. 04  verklaart herbij de eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft: 05  declara bajo su única responsabilidad que los modelos de aire acondicionado a los cuales hace referencia la declaración. 06  δηλώνει sotto la propria esclusiva responsabilità che i modelli di climatizzazione a cui è riferita questa dichiarazione: 07  объявляет на свою исключительную ответственность, что модели климатизации, к которым относится настоящая декларация: 08  declara sub sua exclusiva responsabilidade que os modelos de ar condicionado a que esta declaração se refere.	09  заявляет, исключительно под свою ответственность, что модели кондиционеров воздуха, к которым относится настоящая декларация: 10  erklærer under ensensvar, at klimaanlægget udelukkende sam denne deklaration vedrører: 11  erklærer i egenansvar av luftavsetning, att luftkonditioneringsmodellerna som berörs av denna deklaration innehåller att: 12  erklærer et tilsvarende ansvar for at de luftkonditioneringsmodeller som berøres af denne deklaration, indeholder at: 13  inotifica, kullanılmaya onayla, vasıtasıyla, että linjat ilmastuksen laitteiden valmistajien mallit. 14  proklazuje se vse jelo odgovornosti, ze modeli klimatizacji, k nimz, se tato prohlaseni vzahuje. 15  izjavljuje pod svojimi vsemimi odgovornostmi da so modeli klimatizacije, na koje se ta izjava odnosi: 16  tejes felelősséggel nyilatkozni szeretnék, hogy a klímaberendezések modellek, melyekre a nyilatkozat vonatkozik.	05  están en conformidad con la(s) siguiente(s) norma(s) o (s) otro(s) documentos) normativos), siempre que sean utilizados de acuerdo con nuestras instrucciones: 06  sono conformi all(i) seguente(i) standard(i) o (s) altro(i) documento(i) o (s) altro(i) standard(i) di riferimento, a patto che vengano usati in conformità alle nostre istruzioni: 07  eivät ohjele, että nämä asiakkaat käyttävät näitä ohjeita (tässä asiakasohjeissa) vain niillä tavalla, jolla ne on tarkoitettu käytettäväksi. 08  estão em conformidade com a(s) seguinte(s) norma(s) ou outro(s) documentos) normativos), desde que estes sejam utilizados de acordo com as nossas instruções:	08  соответствуют следующим стандартам или другим нормативным документам, при условии их использования согласно нашим инструкциям: 09  overholder følgende standard(er) eller andet/andre retningslinjer dokument(er), boudst at disse anvendes i henhold til vores instruktioner: 10  overholder følgende standard(er) eller andet/andre retningslinjer dokument(er), boudst at disse anvendes i henhold til vores instruktioner: 11  este instruksiing är utförd i överensstämmelse med och följer följande standard(er) eller andra normerande dokument, under förutsättning att användning sker i överensstämmelse med våra instruktioner:	12  respektive uslyer er i overensstemmelse med følgende standard(er) eller andre normerende dokumenter), under forudsætning at de ikke bruges i strid med disse instruktioner: 13  vastatar seuraavien standardien ja muiden ohjeellisten dokumenttien vaatimista edellytysten, että niitä käytetään ohjeiden mukaisesti: 14  za predpôkodu, že jsou využívány v souladu s našimi pokyny, odpovídají následující normy nebo normativní dokumenty: 15  u skladu sa sjeleďacimi standardami (i) i drugim normativni dokumentom (i)mi, uz uvjet da se oni koriste u skladu s našim uputama: 16  nesgélnek az által szabványok (ak) vagy egyéb irányadó dokumentum(ok)nak, ha azokat előírás szerint használják.	17  spełniają wymogi następujących norm i innych dokumentów normalizacyjnych, pod warunkiem że używane są zgodnie z naszymi instrukcjami: 18  sunt în conformitate cu următorii (următoare) standarde (sau alte) documente (normative), cu condiția ca acestea să fie utilizate în conformitate cu instrucțiunile noastre: 19  skladni z naslednjimi standardi in drugim normativi, pod pogojem, da se uporabljajo v skladu z našimi navodili: 20  on vastavuses järgmistega standarditega (ja või teiste normatiivsete dokumentidega, kui need kasutatakse vastavalt meie juhendile: 21  соответствуют на следующие стандарты или другие нормативные документы, при условии, что используется согласно нашим инструкциям: 22  atitinka žemiau nurodytus standartus (ir arba) kitus norminius dokumentus su sąlyga, kad yra naudojami pagal mūsų nurodymus. 23  tad, ja leidi atbilstošā režģa nodrošinājumam, atbilst sekopšiem standartiem un citiem normatīviem dokumentiem: 24  su v zbrode s naslednjimi (nimi) normami (ali nymi) normativni (i) dokumentom (i) za predpôkodu, že sa používajú v súlade s našimi náhodami: 25  ühineb, lähtudes sellest, et kliimaseadmed kasutatakse vastavalt tootjate juhendile.	21  соответствует на следующие стандарты или другие нормативные документы, при условии, что используется согласно нашим инструкциям: 22  atitinka žemiau nurodytus standartus (ir arba) kitus norminius dokumentus su sąlyga, kad yra naudojami pagal mūsų nurodymus. 23  tad, ja leidi atbilstošā režģa nodrošinājumam, atbilst sekopšiem standartiem un citiem normatīviem dokumentiem: 24  su v zbrode s naslednjimi (nimi) normami (ali nymi) normativni (i) dokumentom (i) za predpôkodu, že sa používajú v súlade s našimi náhodami: 25  ühineb, lähtudes sellest, et kliimaseadmed kasutatakse vastavalt tootjate juhendile.	01  following the Vorschriften der: 02  gemäß den Vorschriften der: 03  conformément aux stipulations des: 04  overeenkomstig de bepalingen van: 05  secondo le disposizioni de: 06  secondo le prescrizioni per: 07  ja riipon luv dootjast kor: 08  de acordo com o previsto em: 09  в соответствии с положениями:	10  under egnet/egnet til bestemmelse i: 11  enligt villkoren i: 12  enligt villkoren i: 13  noudittaan määräyksiä: 14  za dodržení ustanovení předpisů: 15  prema odredbama: 16  követi az előírtakat: 17  zgodnie z postanowieniami Dyrektywy: 18  in una predefinita:	05  as set out in <A> and judged positively by according to the <C> 06  tal como se establece en <A> y es valorado positivamente por de acuerdo con el <C> 07  demarkeert het File Technico di Costuzione <A> e giudicato positivamente da secondo il <C> 08  demarkeert het File Technico di Costuzione <A> e giudicato positivamente da (Modulo <A> applicato) secondo il <C> 09  demarkeert het File Technico di Costuzione <A> e giudicato positivamente da (Modulo <A> applicato) secondo il <C> 10  demarkeert het File Technico di Costuzione <A> e giudicato positivamente da (Modulo <A> applicato) secondo il <C> 11  demarkeert het File Technico di Costuzione <A> e giudicato positivamente da (Modulo <A> applicato) secondo il <C> 12  demarkeert het File Technico di 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dobljeno s strani v skladu s <C> 82 kot je dočleno v <A> in dobljeno s strani v skladu s <C> 83

CE - DECLARATION OF CONFORMITY
CE - KONFORMITÄTSEKLERUNG
CE - DICHLARAZIONE DI CONFORMITÀ
CE - ΔΗΛΩΣΗ ΣΥΜΠΛΗΡΩΣΗΣ
CE - DECLARACIÓN DE CONFORMIDAD
CE - ЗАЯВЛЕНИЕ О СООТВЕТСТВИИ
CE - OVERENSTEMMINGSEKLERING
CE - FORSKRÄNKNING OM ÖVERENSTEMNINGSEKLERING

01 continuation of the previous page:
02 Fortsetzung der vorherigen Seite:
03 suite de la page précédente:
04 vervolg van vorige pagina:

01 Design Specifications of the Models to which this Declaration relates:
02 Konstruktsionsteden der Modelle auf die sich diese Erklärung bezieht:
03 Specificifications of conception des modèles auxquels se rapporte cette déclaration:
04 Omwepenspecificaties van de modellen waarop deze verklaring betrekking heeft:
05 Especificaciones de diseño de los modelos a los cuales hace referencia esta declaración:
06 Specificite di progetto dei modelli cui fa riferimento la presente dichiarazione:

01 Maximum allowable pressure (PS): <P> (bar)
02 Maximum allowable temperature (TS):
03 Minimum temperature at low pressure side: <L> (°C)
04 Saturated temperature corresponding with the maximum allowable pressure (PS): <M> (°C)
05 Refrigerant: <R>
06 Setting of pressure safety device: <S> (bar)
07 Manufacturing number and manufacturing year: refer to model nameplate
08 Maximal zulässiger Druck (PS): <P> (bar)
09 Minimalmaximal zulässige Temperatur (TS):
10 Mindesttemperatur auf der Niederdruckseite: <L> (°C)
11 Sättigungstemperatur auf der Niederdruckseite (PS)
12 Kaltemittel: <R>
13 Einstellung der Druck-Sicherheitsvorrichtung: <S> (bar)
14 Herstellungsnr. und Herstellungsjahr: siehe Typenschild des Modells

01 Pression maximale admissible (PS): <P> (bar)
02 Température minimum admissible (TS):
03 Température minimum côté basse pression: <L> (°C)
04 Température saturée correspondant à la pression maximale admissible (PS): <M> (°C)
05 Réfrigérant: <R>
06 Régulation de sécurité de pression: <S> (bar)
07 Numéro de fabrication et année de fabrication: se reporter à la plaque signalétique du modèle
08 Température maximale admissible (PS): <P> (bar)
09 Température minimale admissible (TS):
10 Température minimale côté basse pression: <L> (°C)
11 Température saturée correspondant à la pression maximale admissible (PS): <M> (°C)
12 Réfrigérant: <R>
13 Réglage du dispositif de sécurité de pression: <S> (bar)
14 Numéro de fabrication et année de fabrication: se reporter à la plaque signalétique du modèle

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13 Réglage du dispositif de sécurité de pression: <S> (bar)
14 Numéro de fabrication et année de fabrication: se reporter à la plaque signalétique du modèle

01 Name and address of the Notified body that judged positively on compliance with the Pressure Equipment Directive: <D>
02 Name and address of the fabricant: Sate, de positief uitte Einhaltung der Druckbauteil-Richtlinie: <D>
03 Name and address of the organisme notifié qui a évalué positivement la conformité de l'active sur l'équipement de pression: <D>
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02 Name and address of the fabricant: Sate, de positief uitte Einhaltung der Druckbauteil-Richtlinie: <D>
03 Name and address of the organisme notifié qui a évalué positivement la conformité de l'active sur l'équipement de pression: <D>
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Yasuto Hiraoka
Managing Director
Pilsen, 1st of April 2019

Yasuto Hiraoka
Managing Director
Pilsen, 1st of April 2019

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CE - DEKLARACIJA ZGODNOSTI
CE - DEKLARACIJA O SVETOSTI
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16 Fortsetzung der vorherigen Seite:
17 suite de la page précédente:
18 vervolg van vorige pagina:

13 Declaration of design model:
14 Deklaratsion dizajnu modela:
15 Specificifications of conception des modèles auxquels se rapporte cette déclaration:
16 Omwepenspecificaties van de modellen waarop deze verklaring betrekking heeft:
17 Especificaciones de diseño de los modelos a los cuales hace referencia esta declaración:
18 Specificite di progetto dei modelli cui fa riferimento la presente dichiarazione:

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DAIKIN INDUSTRIES CZECH REPUBLIC s.r.o.

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

VINCOTTE NV
Jan Oleslaegerslaan 35
1800 Vilvoorde, Belgium

<K>	PS	41.7 bar
<L>	Tsmin	-35 °C
<M>	Tsmax	63.8 °C
<N>	R32	
<P>		41.7 bar

21 Name and address of the Notified body that judged positively on compliance with the Pressure Equipment Directive: <D>
22 Name and address of the fabricant: Sate, de positief uitte Einhaltung der Druckbauteil-Richtlinie: <D>
23 Name and address of the organisme notifié qui a évalué positivement la conformité de l'active sur l'équipement de pression: <D>
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Daikin Industries Czech Republic s.r.o.

- 01  declares under its sole responsibility that the air conditioning models to which this declaration relates

02  erklärt auf seine alleinige Verantwortung, daß die Modelle der Klimaanlage für die diese Erklärung bestimmt ist:

03  déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclaration:

04  vyhlásí na svou vlastní odpovědnost, že klimatizační jednotky uvedené níže jsou určeny k výrobě a instalaci:

05  declara bajo su propia responsabilidad que los modelos de aire acondicionado a los cuales hace referencia tienen:

06  δηλώνει υπό την αποκλειστική της ευθύνη ότι τα κλιματιστικά μοντέλα στα οποία αναφέρεται η δήλωση:

07  oğuluje na swoj odpowiedzialności, że klimatyzatory określonych modeli zostały zaprojektowane i wyprodukowane:

08  declara sous sa seule responsabilité que les modèles de air conditionné à la quelle est adressée cette déclaration:

RXP50M2V1B, RXP60M2V1B, RXP71M2V1B,

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  deriden folgenden Norm(en) oder einem anderen Normdokument oder: 03  sont conformes à la(s) norme(s) (ou autre(s) document(s) normatif(s)), sous réserve que ces normes soient utilisées conformément à nos instructions: 04  conformen met de volgende norm(en) of één of meer andere bindende documenten zln, op voorwaarde dat ze worden gebruikt overeenkomstig onze instructies:	05  están en conformidad con la(s) siguiente(s) norma(s) o otro(s) documento(s) normativos), siempre que sean utilizados de acuerdo con nuestras instrucciones: 06  sono conformi alla(i) seguente(i) standardi(s) o altro(i) documento(i) di carattere normativo, a patto che vengano usati in conformità alle nostre istruzioni: 07  erklærer at de følgende standard(er) eller andre tekniske dokumenter er i overensstemmelse med den tekniske dokumentation, som de skal anvendes i henhold til vores instruktioner: 08  erklærer at de følgende standard(er) eller andre tekniske dokumenter er i overensstemmelse med den tekniske dokumentation, som de skal anvendes i henhold til vores instruktioner:
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- 19  ob upotrebu dobili:

20  vastavalt nõudele:

21  enligt villkoren i:

22  nouđstaven podmínkách:

23  nouđstaven podmínkách:

24  podrobnosti ustanovili:

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1 About the documentation

1.1 About this document



INFORMATION

Make sure that the user has the printed documentation and ask him/her to keep it for future reference.

Target audience

Authorised installers

Documentation set

This document is part of a documentation set. The complete set consists of:

- **General safety precautions:**
 - Safety instructions that you **MUST** read before installing
 - Format: Paper (in the box of the outdoor unit)
- **Outdoor unit installation manual:**
 - Installation instructions
 - Format: Paper (in the box of the outdoor unit)
- **Installer reference guide:**
 - Preparation of the installation, reference data,...
 - Format: Digital files on <http://www.daikineurope.com/support-and-manuals/product-information/>

Latest revisions of the supplied documentation may be available on the regional Daikin website or via your dealer.

The original documentation is written in English. All other languages are translations.

Technical engineering data

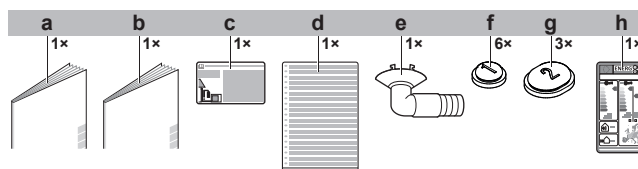
- A **subset** of the latest technical data is available on the regional Daikin website (publicly accessible).
- The **full set** of latest technical data is available on the Daikin extranet (authentication required).

2 About the box

2.1 Outdoor unit

2.1.1 To remove the accessories from the outdoor unit

- 1 Lift the outdoor unit.
- 2 Remove the accessories at the bottom of the package.



- a General safety precautions
- b Outdoor unit installation manual
- c Fluorinated greenhouse gases label
- d Multilingual fluorinated greenhouse gases label
- e Drain plug (located on the bottom of the packing case)
- f Drain cap (1)
- g Drain cap (2)
- h Energy label

3 Preparation

3.1 Preparing the installation site

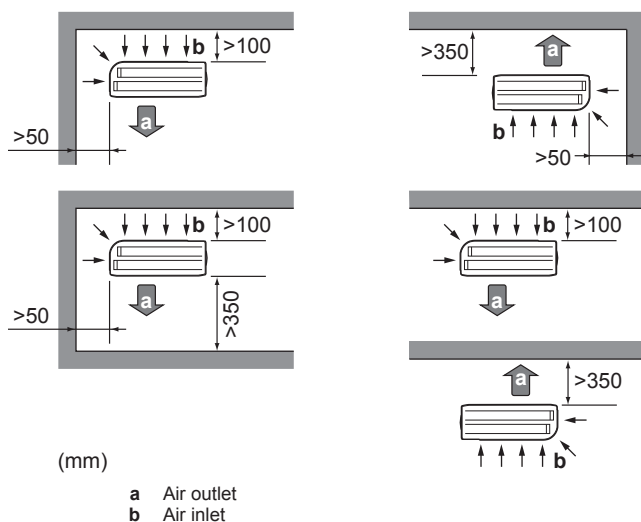


WARNING

The appliance shall be stored in a room without continuously operating ignition sources (example: open flames, an operating gas appliance or an operating electric heater).

3.1.1 Installation site requirements of the outdoor unit

Mind the following spacing guidelines:



NOTICE

The height of the wall on the outlet side of the outdoor unit **MUST** be ≤ 1200 mm.

Do NOT install the unit in sound sensitive areas (e.g. near a bedroom), so that the operation noise will cause no trouble.

Note: If the sound is measured under actual installation conditions, the measured value might be higher than the sound pressure level mentioned in "Sound spectrum" in the data book due to environmental noise and sound reflections.

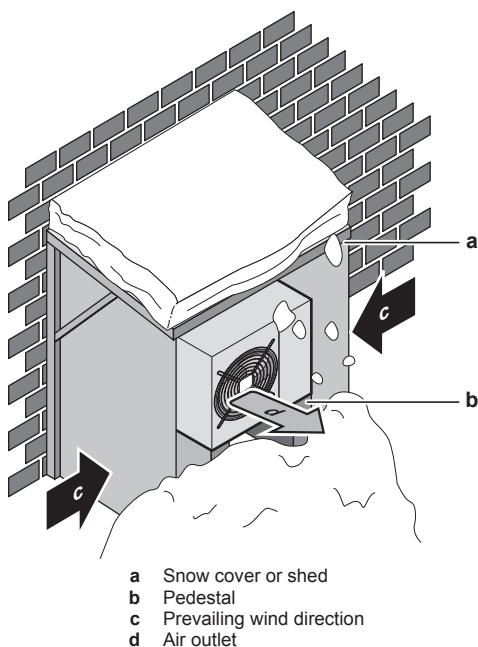


INFORMATION

The sound pressure level is less than 70 dBA.

3.1.2 Additional installation site requirements of the outdoor unit in cold climates

Protect the outdoor unit against direct snowfall and take care that the outdoor unit is NEVER snowed up.



In any case, provide at least 300 mm of free space below the unit. Additionally, make sure the unit is positioned at least 100 mm above the maximum expected level of snow. See "4.1 Mounting the outdoor unit" on page 13 for more details.

In heavy snowfall areas it is very important to select an installation site where the snow will NOT affect the unit. If lateral snowfall is possible, make sure that the heat exchanger coil is NOT affected by the snow. If necessary, install a snow cover or shed and a pedestal.

3.1.3 Refrigerant piping length and height difference

What?	Distance
Maximum allowable pipe length	30 m
Minimum allowable pipe length	3 m
Maximum allowable height distance	20 m

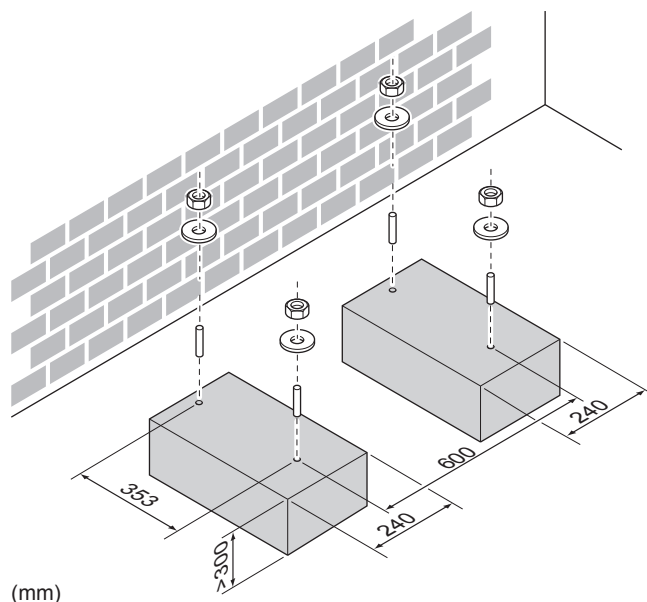
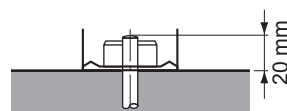
4 Installation

4.1 Mounting the outdoor unit

4.1.1 To provide the installation structure

Use a vibration-proof rubber (field supply) in cases where vibrations may be transmitted to the building.

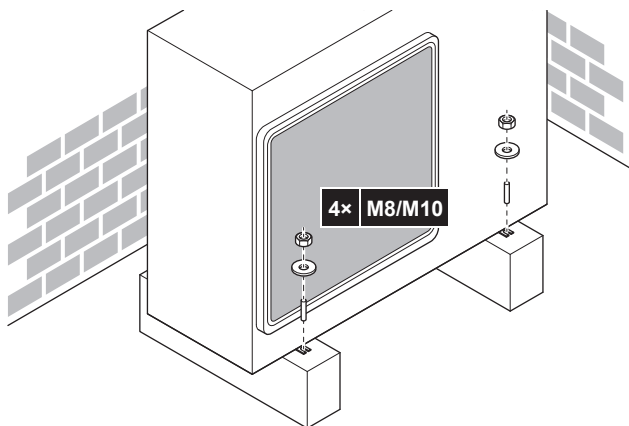
Prepare 4 sets of M8 or M10 anchor bolts, nuts and washers (field supply).



In any case, provide at least 300 mm of free space below the unit. Additionally, make sure the unit is positioned at least 100 mm above the maximum expected level of snow. In this case, it is recommended to construct a pedestal.

4 Installation

4.1.2 To install the outdoor unit



4.1.3 To provide drainage



NOTICE

If the unit is installed in a cold climate, take adequate measures so that the evacuated condensate CANNOT freeze.



INFORMATION

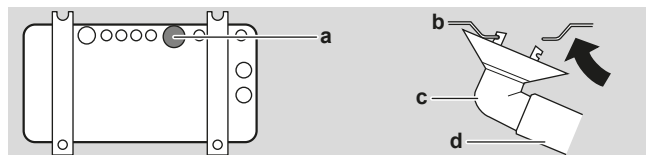
For information on the available options, contact your dealer.



NOTICE

Provide at least 300 mm of free space below the unit. Additionally, make sure the unit is positioned at least 100 mm above the expected level of snow.

- 1 Use a drain plug for drainage.
- 2 Use a Ø16 mm hose (field supply).



- a Drain port
- b Bottom frame
- c Drain plug
- d Hose (field supply)

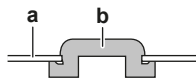
To close the drain holes and attach the drain socket



NOTICE

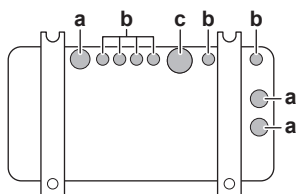
In cold areas, do NOT use a drain socket, hose and caps (1, 2) with the outdoor unit. Take adequate measures so that the evacuated condensate CANNOT freeze.

- 1 Install drain caps 1 and 2 (accessory). Make sure the edges of the drain caps close off the holes completely.



- a Bottom frame
- b Drain cap

- 2 Install the drain socket.



- a Drain hole. Install a drain cap (2).
- b Drain hole. Install a drain cap (1).
- c Drain hole for drain socket

4.2 Connecting the refrigerant piping



DANGER: RISK OF BURNING

4.2.1 To connect the refrigerant piping to the outdoor unit

- **Piping length.** Keep field piping as short as possible.
- **Piping protection.** Protect the field piping against physical damage.



WARNING

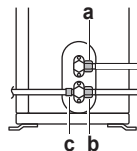
Connect the refrigerant piping securely before running the compressor. If the refrigerant piping is NOT connected and the stop valve is open when the compressor is run, air will be sucked in. This will cause abnormal pressure in the refrigeration cycle, which may result in equipment damage and even injury.



CAUTION

- Use the flare nut fixed to the unit.
- To prevent gas leakage, apply refrigeration oil only to the inside of the flare. Use refrigeration oil for R32.
- Do NOT reuse joints.

- 1 Connect the liquid refrigerant connection from the indoor unit to the liquid stop valve of the outdoor unit.



- a Liquid stop valve
- b Gas stop valve
- c Service port

- 2 Connect the gas refrigerant connection from the indoor unit to the gas stop valve of the outdoor unit.



NOTICE

It is recommended that the refrigerant piping between indoor and outdoor unit is installed in a ducting or the refrigerant piping is wrapped with finishing tape.

4.3 Checking the refrigerant piping

4.3.1 To check for leaks



NOTICE

Do NOT exceed the unit's maximum working pressure (see "PS High" on the unit name plate).

**NOTICE**

Make sure to use a recommended bubble test solution from your wholesaler. Do not use soap water, which may cause cracking of flare nuts (soap water may contain salt, which absorbs moisture that will freeze when the piping gets cold), and/or lead to corrosion of flared joints (soap water may contain ammonia which causes a corrosive effect between the brass flare nut and the copper flare).

- 1 Charge the system with nitrogen gas up to a gauge pressure of at least 200 kPa (2 bar). It is recommended to pressurize to 3000 kPa (30 bar) in order to detect small leaks.
- 2 Check for leaks by applying the bubble test solution to all connections.
- 3 Discharge all nitrogen gas.

4.3.2 To perform vacuum drying

**DANGER: RISK OF EXPLOSION**

Do NOT start the unit if it is vacuumed.

- 1 Vacuum the system until the pressure on the manifold indicates -0.1 MPa (-1 bar).
- 2 Leave as is for 4-5 minutes and check the pressure:

If the pressure...	Then...
Does not change	There is no moisture in the system. This procedure is finished.
Increases	There is moisture in the system. Go to the next step.

- 3 Vacuum the system for at least 2 hours to a manifold pressure of -0.1 MPa (-1 bar).
- 4 After turning the pump OFF, check the pressure for at least 1 hour.
- 5 If you do NOT reach the target vacuum or CANNOT maintain the vacuum for 1 hour, do the following:
 - Check for leaks again.
 - Perform vacuum drying again.

**NOTICE**

Make sure to open the stop valves after installing the refrigerant piping and performing vacuum drying. Running the system with the stop valves closed may break the compressor.

4.4 Charging refrigerant

4.4.1 About charging refrigerant

The outdoor unit is factory charged with refrigerant, but in some cases the following might be necessary:

What	When
Charging additional refrigerant	When the total liquid piping length is more than specified (see later).
Completely recharging refrigerant	Example: ▪ When relocating the system. ▪ After a leak.

Charging additional refrigerant

Before charging additional refrigerant, make sure the outdoor unit's **external** refrigerant piping is checked (leak test, vacuum drying).

**INFORMATION**

Depending on the units and/or the installation conditions, it might be necessary to connect electrical wiring before you can charge refrigerant.

Typical workflow – Charging additional refrigerant typically consists of the following stages:

- 1 Determining if and how much you have to charge additionally.
- 2 If necessary, charging additional refrigerant.
- 3 Filling in the fluorinated greenhouse gases label, and fixing it to the inside of the outdoor unit.

Completely recharging refrigerant

Before completely recharging refrigerant, make sure the following is done:

- 1 All refrigerant is recovered from the system.
- 2 The outdoor unit's **external** refrigerant piping is checked (leak test, vacuum drying).
- 3 Vacuum drying on the outdoor unit's **internal** refrigerant piping is performed.

**NOTICE**

Before completely recharging, perform vacuum drying on the outdoor unit's **internal** refrigerant piping as well.

Typical workflow – Completely recharging refrigerant typically consists of the following stages:

- 1 Determining how much refrigerant to charge.
- 2 Charging refrigerant.
- 3 Filling in the fluorinated greenhouse gases label, and fixing it to the inside of the outdoor unit.

4.4.2 About the refrigerant

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

Refrigerant type: R32

Global warming potential (GWP) value: 675

**WARNING: FLAMMABLE MATERIAL**

The refrigerant inside this unit is mildly flammable.

**WARNING**

The appliance shall be stored in a room without continuously operating ignition sources (example: open flames, an operating gas appliance or an operating electric heater).

**WARNING**

- Do NOT pierce or burn refrigerant cycle parts.
- Do NOT use cleaning materials or means to accelerate the defrosting process other than those recommended by the manufacturer.
- Be aware that the refrigerant inside the system is odourless.

4 Installation



WARNING

The refrigerant inside the unit is mildly flammable, but normally does NOT leak. If the refrigerant leaks in the room and comes in contact with fire from a burner, a heater, or a cooker, this may result in fire, or the formation of a harmful gas.

Turn off any combustible heating devices, ventilate the room, and contact the dealer where you purchased the unit.

Do NOT use the unit until a service person confirms that the part from which the refrigerant leaked has been repaired.

4.4.3 To determine the additional refrigerant amount

For ARXM71N	
If the total liquid piping length is...	Then...
≤10 m	Do NOT add additional refrigerant.
>10 m	$R = (\text{total length (m) of liquid piping} - 10 \text{ m}) \times 0.035$ $R = \text{Additional charge (kg) (rounded in units of 0.01 kg)}$

For other outdoor units	
If the total liquid piping length is...	Then...
≤10 m	Do NOT add additional refrigerant.
>10 m	$R = (\text{total length (m) of liquid piping} - 10 \text{ m}) \times 0.020$ $R = \text{Additional charge (kg) (rounded in units of 0.01 kg)}$



INFORMATION

Piping length is the one-way length of liquid piping.

4.4.4 To determine the complete recharge amount



INFORMATION

If a complete recharge is necessary, the total refrigerant charge is: the factory refrigerant charge (see unit name plate) + the determined additional amount.

4.4.5 To charge additional refrigerant



WARNING

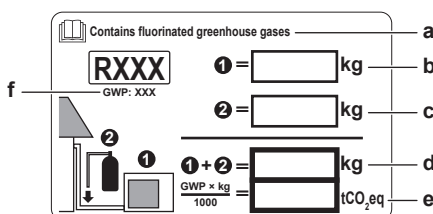
- Only use R32 as refrigerant. Other substances may cause explosions and accidents.
- R32 contains fluorinated greenhouse gases. Its global warming potential (GWP) value is 675. Do NOT vent these gases into the atmosphere.
- When charging refrigerant, ALWAYS use protective gloves and safety glasses.

Prerequisite: Before charging refrigerant, make sure the refrigerant piping is connected and checked (leak test and vacuum drying).

- Connect the refrigerant cylinder to the service port.
- Charge the additional refrigerant amount.
- Open the gas stop valve.

4.4.6 To fix the fluorinated greenhouse gases label

- Fill in the label as follows:



- If a multilingual fluorinated greenhouse gases label is delivered with the unit (see accessories), peel off the applicable language and stick it on top of a.
- Factory refrigerant charge: see unit name plate
- Additional refrigerant amount charged
- Total refrigerant charge
- Quantity of fluorinated greenhouse gases** of the total refrigerant charge expressed as tonnes CO₂ equivalent.
- GWP = Global warming potential



NOTICE

Applicable legislation on **fluorinated greenhouse gases** requires that the refrigerant charge of the unit is indicated both in weight and CO₂ equivalent.

Formula to calculate the quantity in CO₂ equivalent tonnes: GWP value of the refrigerant × total refrigerant charge [in kg] / 1000

Use the GWP value mentioned on the refrigerant charge label. That GWP is based on the current legislation on fluorinated greenhouse gases. The GWP mentioned in the manual might be outdated.

- Fix the label on the inside of the outdoor unit near the gas and liquid stop valves.

4.5 Connecting the electrical wiring



DANGER: RISK OF ELECTROCUTION



WARNING

- All wiring **MUST** be performed by an authorised electrician and **MUST** comply with the applicable legislation.
- Make electrical connections to the fixed wiring.
- All components procured on-site and all electrical construction **MUST** comply with the applicable legislation.



WARNING

ALWAYS use multicore cable for power supply cables.



WARNING

Use an all-pole disconnection type breaker with at least 3 mm between the contact point gaps that provide full disconnection under overvoltage category III.



WARNING

If the supply cord is damaged, it **MUST** be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.



WARNING

Do NOT connect the power supply to the indoor unit. This could result in electrical shock or fire.

**WARNING**

- Do NOT use locally purchased electrical parts inside the product.
- Do NOT branch the power supply for the drain pump, etc. from the terminal block. This could result in electrical shock or fire.

**WARNING**

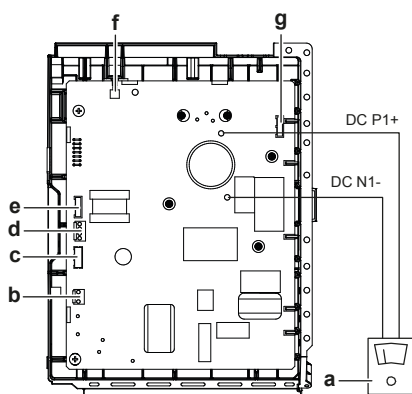
Keep the interconnection wiring away from copper pipes without thermal insulation as such pipes will be very hot.

**DANGER: RISK OF ELECTROCUTION**

All electrical parts (including thermistors) are powered by the power supply. Do not touch them with bare hands.

**DANGER: RISK OF ELECTROCUTION**

Disconnect the power supply for more than 10 minutes, and measure the voltage at the terminals of main circuit capacitors or electrical components before servicing. The voltage MUST be less than 50 V DC before you can touch electrical components. For the location of the terminals, see the wiring diagram.



- a Multimeter (DC voltage range)
- b S80 – reversing solenoid valve lead wire
- c S20 – electronic expansion valve lead wire
- d S40 – thermal overload relay lead wire
- e S90 – thermistor lead wire
- f LED
- g S70 – fan motor lead wire

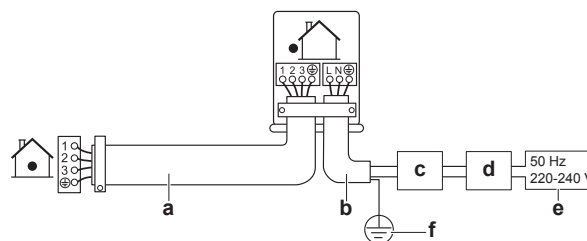
4.5.1 Specifications of standard wiring components

Component		RXM71N ^(a)	Other
Power supply cable	Voltage	220~240 V	
	Phase	1~	
	Frequency	50 Hz	
	Wire sizes	3-core cable 2.5 mm ² ~4.0 mm ² H05RN-F (60245 IEC 57)	
Interconnection cable (indoor↔outdoor)		4-core cable 1.5 mm ² ~2.5 mm ² and applicable for 220~240 V H05RN-F (60245 IEC 57)	
Recommended circuit breaker		20 A	16 A
Earth leakage circuit breaker		MUST comply with applicable legislation	

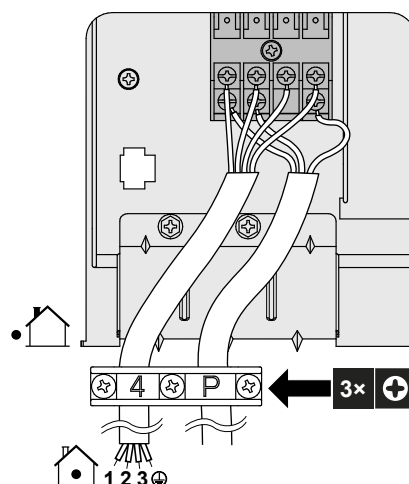
- (a) Electrical equipment comply with EN/IEC 61000-3-12. (European/International Technical Standard setting the limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤75 A per phase.)

4.5.2 To connect the electrical wiring on the outdoor unit

- Remove the switch box cover.
- Open the wire clamp.
- Connect the interconnection cable and power supply as follows:



- a Interconnection cable
- b Power supply cable
- c Circuit breaker
- d Earth leakage circuit breaker
- e Power supply
- f Earth



- Tighten the terminal screws securely. We recommend using a Phillips screwdriver.
- Install the switch box cover.

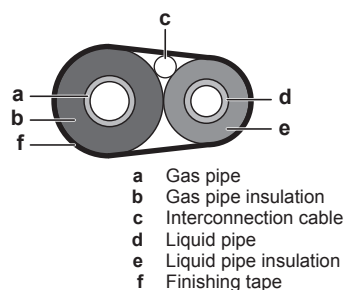
4.6 Finishing the outdoor unit installation

4.6.1 To finish the outdoor unit installation

**DANGER: RISK OF ELECTROCUTION**

- Make sure that the system is earthed properly.
- Turn off the power supply before servicing.
- Install the switch box cover before turning on the power supply.

- Insulate and fix the refrigerant piping and interconnection cable as follows:



- a Gas pipe
- b Gas pipe insulation
- c Interconnection cable
- d Liquid pipe
- e Liquid pipe insulation
- f Finishing tape

5 Commissioning

- 2 Install the service cover.

5 Commissioning



NOTICE

NEVER operate the unit without thermistors and/or pressure sensors/switches. Burning of the compressor might result.

5.1 Checklist before commissioning

After the installation of the unit, first check the following items. Once all below checks are fulfilled, the unit **MUST** be closed, **ONLY** then can the unit be powered up.

☐	The indoor unit is properly mounted.
☐	The outdoor unit is properly mounted.
☐	The system is properly earthed and the earth terminals are tightened.
☐	The power supply voltage matches the voltage on the identification label of the unit.
☐	There are NO loose connections or damaged electrical components in the switch box.
☐	There are NO damaged components or squeezed pipes on the inside of the indoor and outdoor units.
☐	There are NO refrigerant leaks .
☐	The refrigerant pipes (gas and liquid) are thermally insulated.
☐	The correct pipe size is installed and the pipes are properly insulated.
☐	The stop valves (gas and liquid) on the outdoor unit are fully open.
☐	The following field wiring has been carried out according to this document and the applicable legislation between the outdoor unit and the indoor unit.
☐	Drainage Make sure drainage flows smoothly. Possible consequence: Condensate water might drip.
☐	The indoor unit receives the signals of the user interface .
☐	The specified wires are used for the interconnection cable .
☐	The fuses, circuit breakers , or locally installed protection devices are installed according to this document, and have NOT been bypassed.

5.2 Checklist during commissioning

☐	To perform an air purge .
☐	To perform a test run .

5.3 To perform a test run

Prerequisite: Power supply **MUST** be in the specified range.

Prerequisite: Test run may be performed in cooling or heating mode.

Prerequisite: Test run should be performed in accordance with the operation manual of the indoor unit to make sure that all functions and parts are working properly.

- 1 In cooling mode, select the lowest programmable temperature. In heating mode, select the highest programmable temperature. Test run can be disabled if necessary.
- 2 When the test run is finished, set the temperature to a normal level. In cooling mode: 26~28°C, in heating mode: 20~24°C.
- 3 The system stops operating 3 minutes after the unit is turned OFF.



INFORMATION

- Even if the unit is turned OFF, it consumes electricity.
- When the power turns back on after a power break, the previously selected mode will be resumed.

6 Troubleshooting

6.1 Fault diagnosis using LED on outdoor unit PCB

LED is...		Diagnosis
	flashing	Normal. ▪ Check the indoor unit.
	ON	▪ Turn the power OFF and back ON, and check the LED within approximately 3 minutes. If the LED is ON again, the outdoor unit PCB is faulty.
	OFF	1 Supply voltage (for power saving). 2 Power supply fault. 3 Turn the power OFF and back ON, and check the LED within approximately 3 minutes. If the LED is ON again, the outdoor unit PCB is faulty.



DANGER: RISK OF ELECTROCUTION

- When the unit is not operating, the LEDs on the PCB are turned off in order to save power.
- Even when the LEDs are off, the terminal block and the PCB may be powered.

7 Disposal



NOTICE

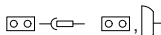
Do **NOT** try to dismantle the system yourself: dismantling of the system, treatment of the refrigerant, oil and other parts **MUST** comply with applicable legislation. Units **MUST** be treated at a specialised treatment facility for reuse, recycling and recovery.

8 Technical data

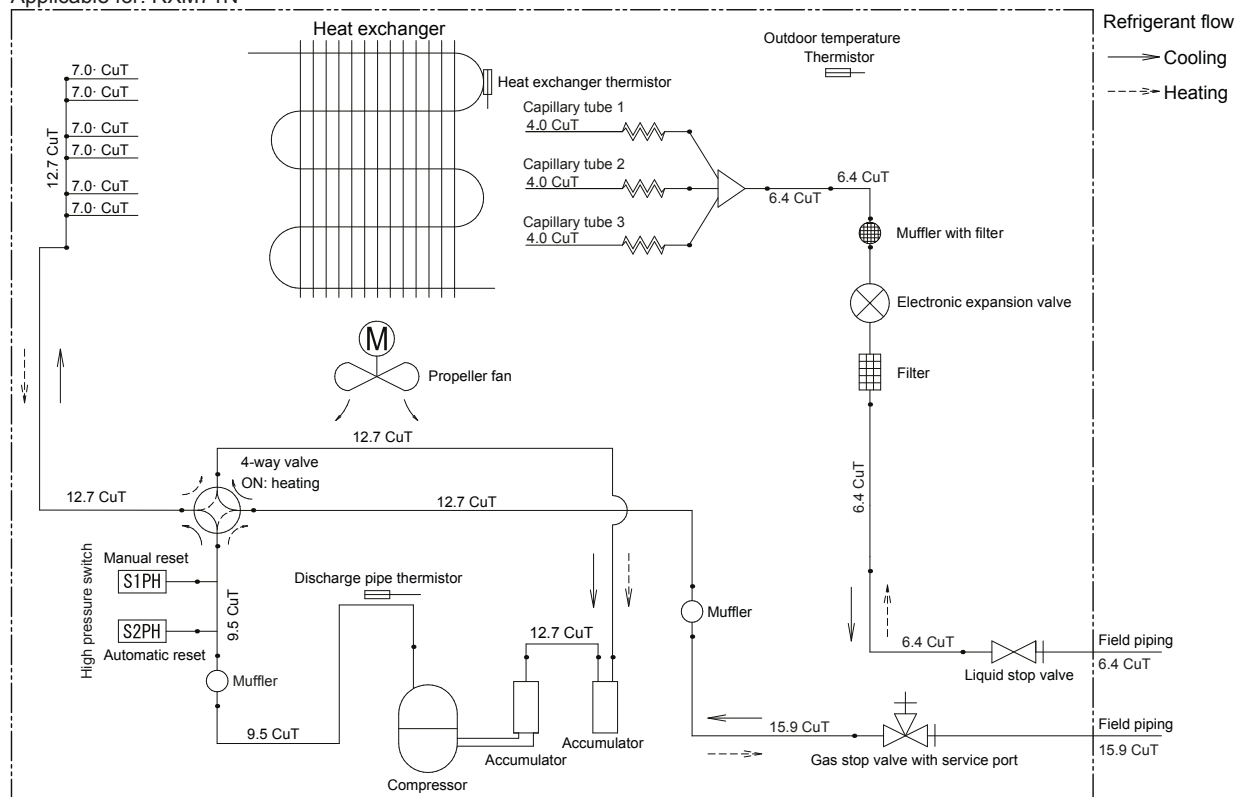
A **subset** of the latest technical data is available on the regional Daikin website (publicly accessible). The **full set** of latest technical data is available on the Daikin Business Portal (authentication required).

8.1 Wiring diagram

The wiring diagram is delivered with the unit, located inside of the outdoor unit (bottom side of the top plate).

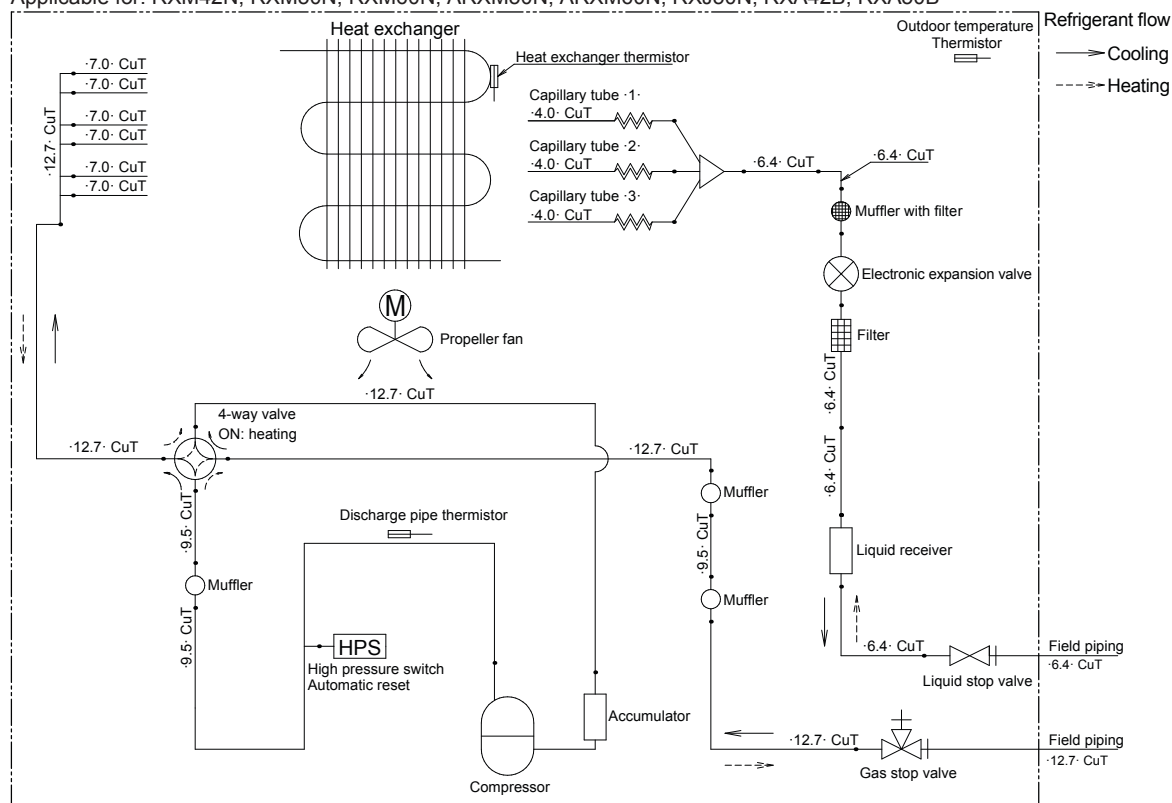
Unified Wiring Diagram Legend					
For applied parts and numbering, refer to the wiring diagram on the unit. Part numbering is by Arabic numbers in ascending order for each part and is represented in the overview below by symbol “*” in the part code.					
	:	CIRCUIT BREAKER		:	PROTECTIVE EARTH
	:	CONNECTION		:	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*	:	PUSHBUTTON 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*,	:	CONNECTION, CONNECTOR	Q*L	:	OVERLOAD PROTECTOR
HR*, MR*_A, MR*_B, S*, U, V,			Q*M	:	THERMO SWITCH
W, X*A, K*R_*			R*	:	RESISTOR
D*, V*D	:	DIODE	R*T	:	THERMISTOR
DB*	:	DIODE BRIDGE	RC	:	RECEIVER
DS*	:	DIP SWITCH	S*C	:	LIMIT SWITCH
E*H	:	HEATER	S*L	:	FLOAT SWITCH
F*U, FU* (FOR CHARACTERISTICS,	:	FUSE	S*NPH	:	PRESSURE SENSOR (HIGH)
REFER TO PCB INSIDE YOUR UNIT)			S*NPL	:	PRESSURE SENSOR (LOW)
FG*	:	CONNECTOR (FRAME GROUND)	S*PH, HPS*	:	PRESSURE SWITCH (HIGH)
H*	:	HARNESS	S*PL	:	PRESSURE SWITCH (LOW)
H*P, LED*, V*L	:	PILOT LAMP, LIGHT EMITTING DIODE	S*T	:	THERMOSTAT
HAP	:	LIGHT EMITTING DIODE (SERVICE MONITOR GREEN)	S*RH	:	HUMIDITY SENSOR
HIGH VOLTAGE	:	HIGH VOLTAGE	S*W, SW*	:	OPERATION SWITCH
IES	:	INTELLIGENT EYE SENSOR	SA*, F1S	:	SURGE ARRESTOR
IPM*	:	INTELLIGENT POWER MODULE	SR*, WLU	:	SIGNAL RECEIVER
K*R, KCR, KFR, KHuR, K*M	:	MAGNETIC RELAY	SS*	:	SELECTOR SWITCH
L	:	LIVE	SHEET METAL	:	TERMINAL STRIP FIXED PLATE
L*	:	COIL	T*R	:	TRANSFORMER
L*R	:	REACTOR	TC, TRC	:	TRANSMITTER
M*	:	STEPPER MOTOR	V*, R*V	:	VARISTOR
M*C	:	COMPRESSOR MOTOR	V*R	:	DIODE BRIDGE
M*F	:	FAN MOTOR	WRC	:	WIRELESS REMOTE CONTROLLER
M*P	:	DRAIN PUMP MOTOR	X*	:	TERMINAL
M*S	:	SWING MOTOR	X*M	:	TERMINAL STRIP (BLOCK)
MR*, MRCW*, MRM*, MRN*	:	MAGNETIC RELAY	Y*E	:	ELECTRONIC EXPANSION VALVE COIL
N	:	NEUTRAL	Y*R, Y*S	:	REVERSING SOLENOID VALVE COIL
n=*, N=*	:	NUMBER OF PASSES THROUGH FERRITE CORE	Z*C	:	FERRITE CORE
PAM	:	PULSE-AMPLITUDE MODULATION	ZF, Z*F	:	NOISE FILTER
PCB*	:	PRINTED CIRCUIT BOARD			
PM*	:	POWER MODULE			

Applicable for: RXM71N



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

Applicable for: RXM42N, RXM50N, RXM60N, ARXM50N, ARXM60N, RXJ50N, RXA42B, RXA50B



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



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