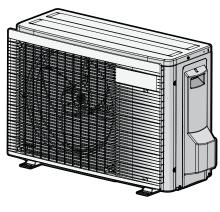


Installation manual



R32 split series



U – Safety declaration of conformity
U – Sicherheits-Konformitätserklärung
E – Déclaration de conformité de sécurité
U – Conformiteitsverklaring veiligheid

Dichiarazione di conformità in materia di sicurezza UE – Declaración de conformidad sobre seguridad UE – Dichiarazione di conformida in materia di sicurezza ΕΕ – Δήλωση συμμόρφωσης για την ασφάλεια UE – Declaração de conformidade relativa à segurança

EC – Заявление о соответствии требованиям по безопасности EU – Sikkerheds-overensstemmelseserklæring EU – Konformitetsdeklaration för säkerhet

Samsvarserklæring for sikkerhet Turvallisuuden vaatimustenmukaisuusvakuutus Bezpečnostni prohlášeni o shodě 무무무

EU-Izjava o sukladnosti za sigurnost EU-Biztonsági megfelelőségi nyilatkozat UE- Deklaraga zgodności z wymogami bezpieczeństwa UE- Declaraje de conformitate de siguranjá

EU – Varnostna izjava o skladnosti EÜ – Ohutuse vastavusdeklaratsioon EC – Декларация за съответствие за безопасност

EC – Декларация за съответствие за безопасност ES – Drošības atbilstības deklarācija EÚ – Vyhlásenie o zhode Bezpečnosť AB – Güvenlik uygunluk beyanı

Daikin Europe N.V.

erklärt in alleinige Verantwortung, dass die Produkte, auf die sich diese Erklärung bezieht: declares under its sole responsibility that the products to which this declaration relates:

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werkdaar lineil que gegen raadinvoordéliphis da det pendudar waaron doze vanéraing betekning heeft;
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заявляет, исключительно под свою ответственность, что продукция, к которой относится настоящее заявление: deklarerar i egenskap av huvudansvarig, att produkterna som berörs av derma deklaration innebär att: erklærer et fullstendig ansvar for at produktene som er underlagt denne erklæringen: erklærer som eneansvarlig, at produkterne, som er omfattet af denne erklæring:

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deklaruje na własną wyłączną odpowiedzialność, że produkty, których ta deklaracja dotyczy:

17 (19) deklaruje na wisaną wykączną odpowiedzałność, że produkty, ktrych la deklaracja dutyczy.
18 (19) dedaracja propriora istayune de signostowa se preiera časasala deklaraje.
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20 (19) miniab oma vastinuskej et londer linie forbat šasasom deklaruštom chelitr.
21 (19) parcipapina na cesa orrosopnostr, we npogytrme, au kontro se oneska na perapaujan:
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23 (19) par pala pala pereškia kad gaminia, kurems ši eklaracja iakloma:
24 (19) vyhlasuje na vlastnú odpovednost, že vynoby, na ktoré sa rzátnej leto vyhlasenie:
25 (19) se k sorumi uligu kend sine atl cimak úzere, bu beyanni tigli oddoju úrniem:

RXJ20A5V1B9, RXJ25A5V1B9, RXJ35A5V1B9

in overeenstemming zijn met de volgende richtlijn(en) of verordening(en), op voorwaarde dat de producten worden gebruikt overeenkomstig onze are in conformly with the following directules (so or equation (s) provided that the products are used in accordance with our instructions: folgended in Rothfulm coded Vorschriften emispractien, vorsatespeart, dass dese gemisful useen instruktionen inverwerdet werden sont conformes at latura treat/versity or tradjenties (s) struktiffs, a condition que les produits scient utilisés conformérent à ros instructions. están en conformidad con la(s) siguiente(s) directiva(s) o reglamento(s), siempre que se utilicen de acuerdo con nuestras instrucciones:

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sono conformi alle direttive o ai regolamenti seguenti, a patto che i prodotti vengano usati in conformità alle nostre istruzioni:

ow Voltage 2014/35/EU Machinery 2006/42/EC**

Electromagnetic Compatibility 2014/30/EU*

10 under iegitägelse aff en fligt gestämmisten för 12 inehnde til testemmissen i 13 nouddaten säämöksiä. 14 za dodziell klasmovelli. 16 prema odredhama. 16 kövel af. 17 zgodne z postamowlerami. 18 unmänd prevederien. following the provisions of: gemäß den Bestimmungen in: conformément aux dispositions de: σύμφωνα με πςπροβλέψεις των: seguindo as disposições de: siguiendo las disposiciones de: volgens de bepalingen van: secondo le disposizioni di:

da al sensi del Centificato <C>. όπως ορίζεται στο <A> και κρίνεται θετικά από τον σύμφωνα με το Πιστοποιητικό <C>. conforme estabelecido em <A> e avaliado come delineato in <A> e giudicato positivamente 07 Σημείωση* 08 Nota* 06 Nota* as set out in <A> and judged positively by according to the Certificate <C>.
we in <A> aufgeführt und von positiv beurteilt gemäß Zertifikat <C>. telles que définies dans <A> et évaluées в соответствии с положениями: 03 Remarque* 02 Hinweis*

01 Note*

Cangerencery <C>
Som anibit (4A> og positivt vurderet af i henhold 15 Napomena*
ill Certifikat <C> как указано в <A> и подтверждено согласно Certificado <C> 09 Примечание* 10 Bemærk* zoals uiteengezet in <A> en positief beoordeeld door overeenkomstig het Certificaat <C>.

tal como se estableæ en <A> y valorado positivamente por de acuerdo con el Certificado <C>.

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C нашими інструкциямі:
 Overbiode Deptemmeseme l'idigande direktiv(er) eller bestemmesle(r), forudstit at produkteme anvendes i overensstemmese med variente se med voros instruktioner.
 Usorinolet Destammeseme l'idigande direktiv(er) eller forskrift(er), forutsatt at produktene buikes i herhold til vare instruktioner:
 and seuza-anven indiktiviken at sexultera mulaisa, acelet production en tablication en training avoid service service service service service mulaisa, acelet perfosits or production en training in objective za pretopolatol, ze tyto vycorky josu poutziventy v sculada.
 u skladu sa sjedeckom direktivom(ma) ili ode-abom(e), uz uvjet da se proizvodi koniste suktadno našim uputame:
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attirká tolian nurodydas drektyvas arba reglamentus, su sajyga, kad gaminiai bus eksploatubjami laikamis mūsų instrukcijų;
a dibisi skaždam deinklam nei regulaim, ja kari skaždalajumi ikki pilosi saskada arbusi instrukcijamis ristukcijamis instrukcijamis instrukcijamis pakoramis za prepolekatu, že su yrobką podživąju v. žrode s našimi pokymmi:
talimatiarimz dogrutusunta kullanimas kosjulyja aspajdaki drektifeidriektifere veja yūramindijelyöremeliklere uygun oldugunu belgan eder:

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spelniąą wymogi rasłępujących dyrektyw lub rozporządzeń pod warunkiem że produkty używane są zgodnie z naszymi instrukcjami:
 stwin konformitale cu umakoarele drech se surregulamente, cu conditi ac za produseje szi fie utifizale inconformitale cu instructjunile moastre.
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в действующей редакции, conforme emendado, 5684886

med tillägg, med foretatte endringer, 886256 in der jeweils gültigen Fassung, telles que modifiées, zoals gewijzigd, e successive modifiche, όπως έχουν τροποποιηθεί, zoals gewijzigd, en su forma enmendada,

sellaisina kuin ne ovat muutettuina,

som tilføjet,

v poslednom platnom vydaní, degistirildiği şekliyle, с техните изменения, ir jos tolesnes redakcijas, ar grozījumiem,

8222248

14 v platném znění, 15 kako je zmijenjeno amandmanima, 16 én môdostikask kandekazéseli, 17 z pôznějszyní zmrámani, 18 ou amandamentele respectíve, 19 kakor je bílo spremenjeno,

EN 60335-2-40,

vadovaujantis šio dokumento nuostatomis: atbilstoši šādu standartu prasībām nasledovnými ustanoveniami: şu standartların hükümlerine:

vastavalt nõuetele: следвайки клаузите на: v skladu z določbami:

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16 Megjegyzés*

17 Uwaga*

som anges i <A> och godkänts av enligt
Certifikat <C>.
som det fernkommer i <A> og vurdert positivt av i henhold til Sertifikatet <C>. sellaisina kuin ne on esitetty asiakirjassa <A> ja jotka on hyväksynyt Sertifikaatin <C>

11 Information*

18 Notă*

19 Opomba*

20 Märkus*

jak było uvedeno v <A> a pozitkimė zijštėno v souladu s Osvědčením <C> kako je izloženo u <A> i pozitivno ocijenjeno od prema Certifikatu <C>

14 Poznámka*

13 Huom* 12 Merk*

positivamente por de acordo com o

positivement par conformément au

04 Bemerk*

05 Nota*

<A> DAIKIN.TCF.032F12/12-2024

2159619.0551-EMC **DEKRA (NB0344)**

%

ako bolo stanovené v <A> a kladne posúdené podľa Osvedčenia <C> <A>de belirtikigi ve <C> Sertifikasina göre tarafindan olumlu görüş bildirikidiği üzere. Sertifikātu <C>. Kdi je določeno v K47 ii je prejelo pozitivno ozeno 24 Poznámka*
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Mis on silesatulu dokumentis K42 ja himatud 25 Not*
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Ostend, 2nd of December 2024 Director

Hideki Hara

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1 About the documentation

1.1 About this document



WARNING

Make sure installation, servicing, maintenance, repair and applied materials follow the instructions from Daikin (including all documents listed in "Documentation set") and, in addition, comply with applicable legislation and are performed by qualified persons only. In Europe and areas where IEC standards apply, EN/IEC 60335-2-40 is the applicable standard.



INFORMATION

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

Target audience

Authorised installers



INFORMATION

This document only describes installation instructions specific to the outdoor unit. For installation of the indoor unit (mounting the indoor unit, connecting the refrigerant piping to the indoor unit, connecting the electrical wiring to the indoor unit ...), see the installation manual of the indoor unit.

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 https://www.daikin.eu. Use the search function Q to find your model.

The latest revision of the supplied documentation is published on the regional Daikin website and is available via your dealer.

Scan the QR code below to find the full documentation set and more information about your product on the Daikin website.



The original instructions are written in English. All other languages are translations of the original instructions.

Technical engineering data

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

2 Specific installer safety instructions

Always observe the following safety instructions and regulations.

Unit installation (see "4 Unit installation" [> 6])



WARNING

Installation shall be done by an installer, the choice of materials and installation shall comply with the applicable legislation. In Europe, EN378 is the applicable standard.

Installation site (see "4.1 Preparing the installation site" [▶ 6])



CAUTION

- Check if the installation location can support the unit's weight. Poor installation is hazardous. It can also cause vibrations or unusual operating noise.
- Provide sufficient service space.
- Do NOT install the unit so that it is in contact with a ceiling or a wall, as this may cause vibrations.



WARNING

The appliance shall be stored so as to prevent mechanical damage and in a well-ventilated room without continuously operating ignition sources (e.g. open flames, an operating gas appliance, or an operating electric heater). The room size shall be as specified in the General safety precaution.

Piping installation (see "5 Piping installation" [▶ 7])



WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.



CAUTION

Piping and joints of a split system shall be made with permanent joints when inside an occupied space except joints directly connecting the piping to the indoor units.



CAUTION

- No brazing or welding on site for units with R32 refrigerant charge during shipment.
- During installation of the refrigeration system, joining of parts with at least one part charged shall be performed taking into account the following requirements: inside occupied spaces non-permanent joints are NOT allowed for R32 refrigerant except for site made joints directly connecting the indoor unit to piping. Site made joints directly connecting piping to indoor units shall be of non-permanent type.



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

- Incomplete flaring may cause refrigerant gas leakage.
- Do NOT re-use flares. Use new flares to prevent refrigerant gas leakage.
- Use flare nuts that are included with the unit. Using different flare nuts may cause refrigerant gas leakage.



CAUTION

Do NOT open the valves before flaring is complete. This would cause refrigerant gas leakage.



DANGER: RISK OF EXPLOSION

Do NOT open the stop valves before the vacuum drying is finished.

Charging refrigerant (see "6 Charging refrigerant" [▶ 9])



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.



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.



WARNING

NEVER directly touch any accidental leaking refrigerant. This could result in severe wounds caused by frostbite.

Electrical installation (see "7 Electrical installation" [▶ 10])



WARNING

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



WARNING

- If the power supply has a missing or wrong N-phase, equipment might break down.
- Establish proper earthing. Do NOT earth the unit to a utility pipe, surge absorber, or telephone earth. Incomplete earthing may cause electrical shocks.
- Install the required fuses or circuit breakers.
- Secure the electrical wiring with cable ties so that the cables do NOT come in contact with sharp edges or piping, particularly on the high-pressure side.
- Do NOT use taped wires, extension cords, or connections from a star system. They can cause overheating, electrical shocks or fire.
- Do NOT install a phase advancing capacitor, because this unit is equipped with an inverter. A phase advancing capacitor will reduce performance and may cause accidents.



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 provides 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.

Finishing indoor unit installation (see "8 Finishing the outdoor unit installation" [> 11])



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.

Commissioning (see "10 Commissioning" [▶ 11])



DANGER: RISK OF ELECTROCUTION



DANGER: RISK OF BURNING/SCALDING



CAUTION

Do NOT perform the test operation while working on the indoor unit(s).

When performing the test operation, NOT ONLY the outdoor unit, but the connected indoor unit will operate as well. Working on an indoor unit while performing a test operation is dangerous.



CAUTION

Do NOT insert fingers, rods or other objects into the air inlet or outlet. Do NOT remove the fan guard. When the fan is rotating at high speed, it will cause injury.

Maintenance and service (see "11 Maintenance and service" [> 12])



DANGER: RISK OF ELECTROCUTION



DANGER: RISK OF BURNING/SCALDING



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.

\triangle

WARNING

- Before carrying out any maintenance or repair activity, ALWAYS switch off the circuit breaker on the supply panel, remove the fuses or open the protection devices of the unit.
- Do NOT touch live parts for 10 minutes after the power supply is turned off because of high voltage risk.
- Please note that some sections of the electric component box are hot.
- Make sure you do NOT touch a conductive section.
- Do NOT rinse the unit. This may cause electric shocks or fire

About the compressor



DANGER: RISK OF ELECTROCUTION

- Use this compressor on a grounded system only.
- Turn the power off before servicing the compressor.
- Reattach the switch box cover and service lid after servicing.



CAUTION

ALWAYS wear safety glasses and protective gloves.



DANGER: RISK OF EXPLOSION

- Use a pipe cutter to remove the compressor.
- Do NOT use the brazing torch.
- Use approved refrigerants and lubricants only.



DANGER: RISK OF BURNING/SCALDING

Do NOT touch the compressor with bare hands.

Troubleshooting (see "12 Troubleshooting" [▶ 12])



DANGER: RISK OF ELECTROCUTION

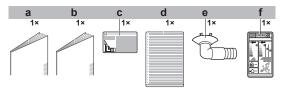
- When the unit is NOT operating, the LEDs on the PCB are turned OFF in order to save power.
- Even when the LEDs are OFF, the terminal block and the PCB may be powered.

3 About the box

3.1 Outdoor unit

3.1.1 To remove the accessories from the outdoor unit

Make sure you have all following accessories delivered with the unit:



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 Energy label

4 Unit installation



WARNING

Installation shall be done by an installer, the choice of materials and installation shall comply with the applicable legislation. In Europe, EN378 is the applicable standard.

4.1 Preparing the installation site

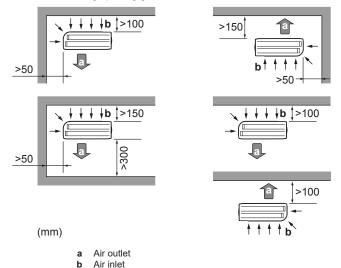


WARNING

The appliance shall be stored so as to prevent mechanical damage and in a well-ventilated room without continuously operating ignition sources (e.g. open flames, an operating gas appliance, or an operating electric heater). The room size shall be as specified in the General safety precaution.

4.1.1 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 \leq 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

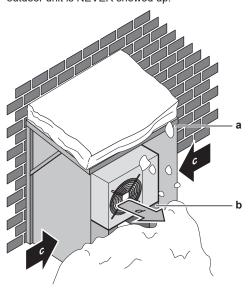
The sound pressure level is less than 70 dBA.

The outdoor unit is designed for outdoor installation only and for ambient temperatures specified in the table below (unless otherwise specified in the operation manual of the connected indoor unit).

Cooling	Heating
−10~50°C DB	-20~24°C DB

4.1.2 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.



- a Snow cover or shed
- **b** Pedestal
- c Prevailing wind direction
- d Air outlet

It is recommended to provide at least 150 mm of free space below the unit (300 mm for heavy snowfall areas). Additionally, make sure the unit is positioned at least 100 mm above the maximum expected level of snow. If necessary, construct a pedestal. See "4.2 Mounting the outdoor unit" [> 6] for more details.

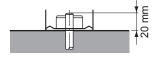
In heavy snowfall areas it is very important to select an installation site where the snow will NOT affect the unit. If lateral snowfall is possible, make sure that the heat exchanger coil is NOT affected by the snow. If necessary, install a snow cover or shed and a pedestal.

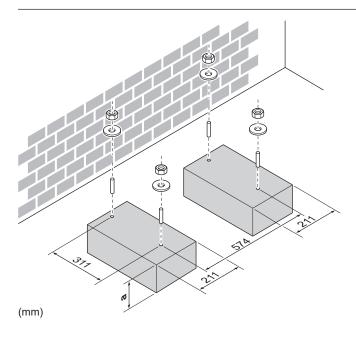
4.2 Mounting the outdoor unit

4.2.1 To provide the installation structure

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

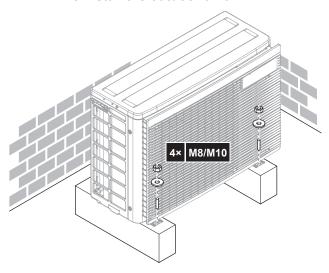
Prepare 4 sets of M8 or M10 anchor bolts, nuts and washers (field supply).





a 100 mm above expected level of snow

4.2.2 To install the outdoor unit



4.2.3 To provide drainage



NOTICE

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



NOTICE

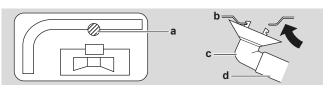
If the drain holes of the outdoor unit are blocked up by a mounting base or floor surface, place additional foot bases ≤30 mm under the outdoor unit's feet.



INFORMATION

For information on the available options, contact your dealer.

- 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)

5 Piping installation

5.1 Preparing refrigerant piping

5.1.1 Refrigerant piping requirements



CAUTION

Piping and joints of a split system shall be made with permanent joints when inside an occupied space except joints directly connecting the piping to the indoor units.



NOTICE

The piping and other pressure-containing parts shall be suitable for refrigerant. Use phosphoric acid deoxidised seamless copper for refrigerant piping.

 Foreign materials inside pipes (including oils for fabrication) must be ≤30 mg/10 m.

Refrigerant piping diameter

Pipe outer diameter	
Liquid piping	Gas piping
Ø6.4 mm (1/4")	Ø9.5 mm (3/8")

Refrigerant piping material

- Piping material: phosphoric acid deoxidised seamless copper
- Flare connections: Only use annealed material.
- Piping temper grade and thickness:

Outer diameter (Ø)	Temper grade	Thickness (t) ^(a)	
6.4 mm (1/4")	Annealed (O)	≥0.8 mm	Ø
9.5 mm (3/8")	Annealed (O)		

⁽a) Depending on the applicable legislation and the maximum working pressure of the unit (see "PS High" on the unit name plate), larger piping thickness might be required.

5.1.2 Refrigerant piping insulation

- Use polyethylene foam as insulation material:
 - with a heat transfer rate between 0.041 and 0.052 W/mK (0.035 and 0.045 kcal/mh°C)
 - with a heat resistance of at least 120°C
- Insulation thickness:

Pipe outer diameter (\mathcal{O}_p)	Insulation inner diameter (Ø _i)	Insulation thickness (t)
6.4 mm (1/4")	8~10 mm	≥10 mm
9.5 mm (3/8")	10~14 mm	≥13 mm

5 Piping installation



If the temperature is higher than 30°C and the humidity is higher than RH 80%, the thickness of the insulation materials should be at least 20 mm to prevent condensation on the surface of the insulation.

5.1.3 Refrigerant piping length and height difference

What?	Distance
Maximum allowable pipe length	20 m
Minimum allowable pipe length	1.5 m
Maximum allowable height difference	15 m

5.2 Connecting the refrigerant piping



DANGER: RISK OF BURNING/SCALDING



CAUTION

- No brazing or welding on site for units with R32 refrigerant charge during shipment.
- During installation of the refrigeration system, joining of parts with at least one part charged shall be performed taking into account the following requirements: inside occupied spaces non-permanent joints are NOT allowed for R32 refrigerant except for site made joints directly connecting the indoor unit to piping. Site made joints directly connecting piping to indoor units shall be of non-permanent type.

5.2.1 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.



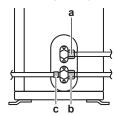
WARNING

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.



NOTICE

- 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 (FW68DA).
- Do NOT reuse joints.
- 1 Connect the liquid refrigerant connection from the indoor unit to the liquid stop valve of the outdoor unit.



8

a Liquid stop valve

- 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.

5.3 Checking the refrigerant piping

5.3.1 To check for leaks



NOTICE

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



NOTICE

ALWAYS use a recommended bubble test solution from your wholesaler.

NEVER use soap water:

- Soap water may cause cracking of components, such as flare nuts or stop valve caps.
- Soap water may contain salt, which absorbs moisture that will freeze when the piping gets cold.
- Soap water contains ammonia which may lead to corrosion of flared joints (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.

5.3.2 To perform vacuum drying



DANGER: RISK OF EXPLOSION

Do NOT open the stop valves before the vacuum drying is finished.

- 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.

Charging refrigerant

6.1 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

Periodical inspections for refrigerant leaks may be required depending on the applicable legislation. Contact your installer for more information.



A2L WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.



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



WARNING

The appliance shall be stored so as to prevent mechanical damage and in a well-ventilated room without continuously operating ignition sources (e.g. open flames, an operating gas appliance, or an operating electric heater). The room size shall be as specified in the General safety precaution.



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.



WARNING

NEVER directly touch any accidental leaking refrigerant. This could result in severe wounds caused by frostbite.

6.2 To determine the additional refrigerant amount

If the total liquid piping length is		Then
	≤10 m	Do NOT add additional refrigerant.

If the total liquid piping length is	Then
>10 m	R=(total length (m) of liquid piping–10 m)×0.020
	R=Additional charge (kg) (rounded in units of 0.01 kg)



INFORMATION

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

6.3 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.

6.4 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).

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

6.5 To check refrigerant piping joints for leaks after charging refrigerant

- Perform the leak tests see "5.3 Checking the refrigerant piping" [>8].
- Charge refrigerant.
- 3 Check for refrigerant leaks after charging (see below)

Tightness test of field-made refrigerant joints indoors

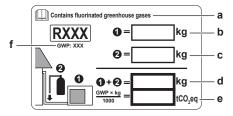
Use a leakage test method with a minimum sensitivity of 5 g of refrigerant/year. Test leaks using a pressure of at least 0.25 times the maximum working pressure (see "PS High" on the unit nameplate).

If a leak is detected

1 Recover the refrigerant, repair the joint, and repeat the test.

6.6 To fix the fluorinated greenhouse gases label

Fill in the label as follows:



- a 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 CO_2 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

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

Electrical installation



DANGER: RISK OF ELECTROCUTION



WARNING

- All wiring MUST be performed by an authorised electrician and MUST comply with the national wiring regulation.
- 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 provides 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.

7.1 Specifications of standard wiring components



NOTICE

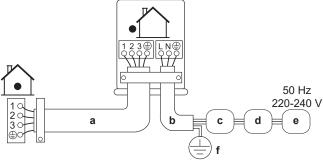
We recommend using solid (single-core) wires. If stranded wires are used, slightly twist the strands to consolidate the end of the conductor for either direct use in the terminal clamp or insertion in a round crimp-style terminal. Details are described in "Guidelines when connecting the electrical wiring" in the installer reference guide.

Power supply	
Voltage	220~240 V
Frequency	50 Hz
Phase	1~
Current	RXJ20: 8.86 A
	RXJ25: 9.69 A
	RXJ35: 9.70 A

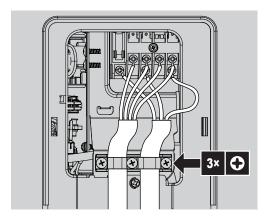
Components	
Power supply cable	MUST comply with national wiring regulation
	3-core cable
	Wire size based on the current, but not less than 2.5 mm ²
Interconnection cable (indoor↔outdoor)	Only use harmonised wire providing double insulation and suitable for applicable voltage
	4-core cable
	Minimum size 1.5 mm ²
Recommended circuit	RXJ20: 10 A
breaker	RXJ25: 13 A
	RXJ35: 13 A
Earth leakage circuit breaker / residual current circuit breaker	MUST comply with national wiring regulation

7.2 To connect the electrical wiring to the outdoor unit

- 1 Remove the service cover.
- Open the wire clamp.
- 3 Connect the interconnection cable and power supply as follows:



- Interconnection cable
- Power supply cable
- Circuit breaker (field provided fuse with rating according to the model name plate)
- Residual current device
- Power supply
- Farth



4 Tighten the terminal screws securely. We recommend using a Phillips screwdriver.

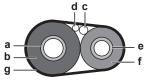
8 Finishing the outdoor unit installation

8.1 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.
- 1 Insulate and fix the refrigerant piping and cables as follows:



- a Gas pipe
- **b** Gas pipe insulation
- c Interconnection cable
- d Field wiring (if applicable)
- e Liquid pipe
- f Liquid pipe insulation
- g Finishing tape
- 2 Install the service cover.

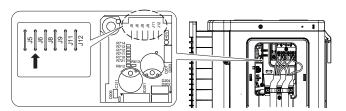
9 Configuration

9.1 Facility setting

Use this function for cooling at low outdoor temperature. This function is designed for facilities such as equipment of computer rooms. NEVER use in a residence or office where people occupy the space.

9.1.1 To set the facility mode

When cutting jumper J6 on the PCB, the operation range will expand to -15°C. The facility mode will stop if the outdoor temperature drops below -20°C and resume when the temperature rises again.





INFORMATION

- The indoor unit may produce Intermittent noise due to the outdoor unit fan turning ON and/or OFF.
- Do NOT place humidifiers or other items which might raise humidity in rooms when you use the facility mode.
- Cutting jumper J6 sets the indoor unit fan to the highest speed
- Do NOT use this setting in residences or offices with people.

10 Commissioning



NOTICE

General commissioning checklist. Next to the commissioning instructions in this chapter, a general commissioning checklist is also available on the Daikin Business Portal (authentication required).

The general commissioning checklist is complementary to the instructions in this chapter and can be used as a guideline and reporting template during commissioning and hand-over to the user.



NOTICE

ALWAYS operate the unit with thermistors and/or pressure sensors/switches. If NOT, burning of the compressor might be the result.

10.1 Checklist before commissioning

- 1 After the installation of the unit, check the items listed below.
- 2 Close the unit.
- 3 Power up the unit.

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

RXJ-A9

R32 split series

Installation manual

11 Maintenance and service

		Drainage	
		Make sure drainage flows smoothly.	
Possible consequence: Condensate w		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.	
devices are installed		The fuses , circuit breakers , or locally installed protection devices are installed according to this document, and have NOT been bypassed.	

10.2 Checklist during commissioning

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

10.3 To perform a test run



INFORMATION

If the unit runs into an error during commissioning, see the service manual for the detailed troubleshooting guidelines.

Prerequisite: The power supply MUST be in the specified range.

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

Prerequisite: Refer to the operation manual of the indoor unit for setting temperature, operation mode....

- 1 In cooling mode, select the lowest programmable temperature. In heating mode, select the highest programmable temperature. The 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 Make sure that all functions and parts are working properly.
- 4 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.

11 Maintenance and service



NOTICE

General maintenance/inspection checklist. Next to the maintenance instructions in this chapter, a general maintenance/inspection checklist is also available on the Daikin Business Portal (authentication required).

The general maintenance/inspection checklist is complementary to the instructions in this chapter and can be used as a guideline and reporting template during maintenance.



NOTICE

Maintenance MUST be done by an authorised installer or service agent.

We recommend performing maintenance at least once a year. However, applicable legislation might require shorter maintenance intervals.



NOTICE

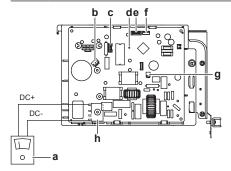
Applicable legislation on **fluorinated greenhouse gases** requires that the refrigerant charge of the unit is indicated both in weight and CO₂ equivalent.

Formula to calculate the quantity in CO_2 equivalent tonnes: GWP value of the refrigerant × total refrigerant charge [in kg] / 1000



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 S70 fan motor lead wire
- l LED
- e S90 thermistor lead wire
- f S20 electronic expansion valve lead wire
- g S40 thermal overload relay lead wire
- h DB1 diode bridge

12 Troubleshooting

12.1 Fault diagnosis using LED on outdoor unit PCB

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



NOTICE

For error code diagnosis use the wireless remote control delivered with the indoor unit. See the service manual for the complete list of error codes and a detailed troubleshooting guideline for each error.



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.

13 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.



INFORMATION

To protect the environment, make sure to perform an automatic pump down operation when relocating or dismantling the unit. For the pump down procedure, refer to the service manual or the installer reference guide.

14 Technical data

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

14.1 Wiring diagram

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

14.1.1 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 "*" in the part code

Symbol	Meaning	Symbol	Meaning
	Circuit breaker	(Protective earth
-b		4	Noiseless earth
			Protective earth (screw)
-	Connection	(A), [Z]	Rectifier
∞-← ∞,)-	Connector	-(Relay connector
Ţ	Earth	99	Short-circuit connector
# 	Field wiring	-0-	Terminal
	Fuse		Terminal strip
INDOOR	Indoor unit	0 •	Wire clamp
OUTDOOR	Outdoor unit		Heater
	Residual current device		

Symbol	Colour	Symbol	Colour
BLK	Black	ORG	Orange
BLU	Blue	PNK	Pink
BRN	Brown	PRP, PPL	Purple
GRN	Green	RED	Red
GRY	Grey	WHT	White
SKY BLU	Sky blue	YLW	Yellow

Symbol	Meaning
A*P	Printed circuit board

Symbol	Meaning
BS*	Pushbutton ON/OFF, operation
	switch
BZ, H*O	Buzzer
C*	Capacitor
AC*, CN*, E*, HA*, HE*, HL*, HN*, HR*, MR*_A, MR*_B, S*, U, V, W, X*A, K*R_*, NE	Connection, connector
D*, V*D	Diode
DB*	Diode bridge
DS*	DIP switch
E*H	Heater
FU*, F*U, (for characteristics, refer to PCB inside your unit)	Fuse
FG*	Connector (frame ground)
H*	Harness
H*P, LED*, V*L	Pilot lamp, light emitting diode
HAP	Light emitting diode (service monitor green)
HIGH VOLTAGE	High voltage
IES	Intelligent eye sensor
IPM*	Intelligent power module
K*R, KCR, KFR, KHuR, K*M	Magnetic relay
L	Live
L*	Coil
L*R	Reactor
M*	Stepper motor
M*C	Compressor motor
M*F	Fan motor
M*P	Drain pump motor
M*S	Swing motor
MR*, MRCW*, MRM*, MRN*	Magnetic relay
N	Neutral
n=*, N=*	Number of passes through ferrite core
PAM	Pulse-amplitude modulation
PCB*	Printed circuit board
PM*	Power module
PS	Switching power supply
PTC*	PTC thermistor
Q*	Insulated gate bipolar transistor (IGBT)
Q*C	Circuit breaker
Q*DI, KLM	Earth leak circuit breaker
Q*L	Overload protector
Q*M	Thermo switch
Q*R	Residual current device
R*	Resistor
R*T	Thermistor
RC	Receiver
S*C	Limit switch
S*L	Float switch
S*NG	Refrigerant leak detector
S*NPH	Pressure sensor (high)
S*NPL	Pressure sensor (low)
S*PH, HPS*	Pressure switch (high)
S*PL	Pressure switch (low)

14 Technical data

Symbol	Meaning
S*T	Thermostat
S*RH	Humidity sensor
S*W, SW*	Operation switch
SA*, F1S	Surge arrester
SR*, WLU	Signal receiver
SS*	Selector switch
SHEET METAL	Terminal strip fixed plate
T*R	Transformer
TC, TRC	Transmitter
V*, R*V	Varistor
V*R	Diode bridge, Insulated-gate bipolar transistor (IGBT) power module
WRC	Wireless remote controller
X*	Terminal
X*M	Terminal strip (block)
Y*E	Electronic expansion valve coil
Y*R, Y*S	Reversing solenoid valve coil
Z*C	Ferrite core
ZF, Z*F	Noise filter









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