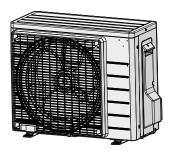


Installation manual

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

무무무

Samsvarserklæring for sikkerhet Turvallisuuden vaatimustenmukaisuusvakuutus Bezpečnostni prohlášeni o shodě

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:

déciare sous sa seule responsabillé que les produits vieés par la présente déclaration:
werkdaar lineil que gegen raadinvoordéliphis da det pendudar waaron doze vanéraing betekning heeft;
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declara souls a propiar responsabilità der la producta se las que haos referencia esta declaración;
declara souls a propiar responsabilità der la produita ou de riche in ques activatazione;
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declara souls ou sur gendancier (se regionne de su producta se que esta declaração se refer.)

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:

imolitaa yksinomaan omalla vastuulaan, että lämän imoituksen tarkoitamat tuoiteet: pohitääyjen suoupinon opoheikost, že vyidoki, ketkyime elu pohotilasian yäzeliheji pohitäyjen sikylikon vastilon odopvormäsiud sa yroboroli ra koje se osa Zapia ottoois teljes fielökssége tudalában kijelenti, fiogy a terméleik, melyekre en nylaktozat vonaktozit konaktosa. 8 8 8 8 E E

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.
19 (19) z vso odpownostjo izjavla da so izdaki, na katere se izjana manska:
20 (19) miniab oma vastukusej et iurodefin la katere se izjana manska:
21 (19) se preizapypa na cesa orrosopvacr, ve rpodymne, au kontro se oneska managamini.
22 (19) se primi anfolku patjecni, ka dzystajamini, kturem si elektaracja iakoma:
23 (19) se primi anfolku patjecni, ka dzystajamini, kturem si elektaracja iakoma:
24 (19) vyhlasuje na vlastnú odpovednost, že vynobky, na ktoré sa rzátnej la odvywy nilasenie:
25 (19) se vyhlasuje na vlastnú odpovednost, že vynobky, na ktoré sa rzátnej la odvywy nilasenie:
25 (19) se k sorumi uligu kend sine alt cimak úzere, bu beyamin igili odugu úrniem:

ARXF20E5V1B, ARXF25E5V1B, ARXF35E5V1B, ARXF42E5V1B, , RXF20E5V1B, RXF25E5V1B, RXF35E5V1B, RXF42E5V1B,

are in conformly with the following directules (so or egulation(s), provided that the products are used in accordance with our instructions: folgended in Rothfulm code Vorschriften emispractien, vorsatespearLt dass dese gemäß urseen instruktionen inverwerdet werdem sont conformes at ladux dreadvelge out reglement(s) strukant(s), a condition que les produits scient uitses conformerent a ros instructions.

отвечает требованиям упомянутых ниже директив или нормативных документов три условия эксплуатации данной продукции в соответствии

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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:
 megdeelnek az alabbi fanjevl(ek) hek vagy egyte szadalyozási ok) pak, na a termékeke rebrita szemir hasznáják: in overeenstemming zijn met de volgende richtlijn(en) of verordening(en), op voorwaarde dat de producten worden gebruikt overeenkomstig onze

están en conformidad con la(s) siguiente(s) directiva(s) o reglamento(s), siempre que se utilicen de acuerdo con nuestras instrucciones: sono conformi alle direttive o ai regolamenti seguenti, a patto che i prodotti vengano usati in conformità alle nostre istruzioni: 90 20

συμμορφώνονται με την(ις) ακόλουθη(ες) οδηγία(ες) ή κανονισμό(ούς), υπό την προϋπάθεση ότι τα προϊόντα χρησιμοποιούνται σύμφωνα με τις

estão em conformidade com a(s) seguinte(s) diretiva(s) ou regulamento(s), desde que os produtos sejam utilizados de acordo com as nossas οφηγίες μας:

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

ar grozījumiem,

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

sellaisina kuin ne ovat muutettuina,

EN 60335-2-40,

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in der jeweils gültigen Fassung, telles que modifiées, zoals gewijzigd,

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e successive modifiche, όπως έχουν τροποποιηθεί, zoals gewijzigd, en su forma enmendada,

conforme emendado,

spelniąą wymogi rasłępujących dyrektyw lub rozporządzeń, pod warunkiem że produkty używane są zgodnie z naszymi instrukcjami:
 stw. mi conformitale cu imaticane drest be sauregulamente, cu condita ca produsee siż fie utifizae in conformitale cu instructjunile moastre.
 v skłedu z nasłednjo drektwoj-ami) ali predpisomi-d. jod ozgojem, da se żdek uporablejo v skłedu z nastrim rawdio jed oraktwojemi) ali predpisomi-d. jod ozgojem, da se żdek uporablejo v skłedu z naśmi navodić jed oraktwojemi z jed ozgonine jed oraktwojemi z jed ozgonine jed ozgonine

Electromagnetic Compatibility 2014/30/EU* ow Voltage 2014/35/EU Machinery 2006/42/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 postamowlemiti. 18 unmänd prevederien. following the provisions of: gemäß den Bestimmungen in: conformément aux dispositions de: σύμφωνα με πςπροβλέψεις των: seguindo as disposições de: в соответствии с положениями: siguiendo las disposiciones de: volgens de bepalingen van: secondo le disposizioni di:

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> da ai sensi del Certificato <C> όπως ορίζεται στο <A> και κρίκεται θετικά από τον σύμφωνα με το Πιστοποιητικό <C>. conforme estabelecido em <A> e avaliado come delineato in <A> e giudicato positivamente positivamente por de acordo com o Certificado <C> 09 Примечание* 07 Σημείωση* 10 Bemærk* 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>. 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>.
>
> Certificado <C>. telles que définies dans <A> et évaluées positivement par conformément au Certificat <C> 03 Remarque* 02 Hinweis* 04 Bemerk*

05 Nota*

01 Note*

16 Megjegyzés* 17 Uwaga* 18 Notă* som det fremkommer i <A> og vurdert positivt av i henhold til Sertifikatet <C>. sellaisina kuin ne on esitetty asiakirjassa <A> ja jotka on hyväksynyt Sertifikaatin <C> jak było uvedeno v <A> a pozitivně zijštěno v souladu s Osvědčením <C> kako je izloženo u <A> i pozitivno ocijenjeno od prema Certifikatu <C> som anges i <A> och godkänts av enligt Certifikat <C> 11 Information* как указано в <A> и подтверждено согласно 14 Poznámka* Cangerencery <C>
Som anibit (4A> og positivt vurderet af i henhold 15 Napomena*
ill Certifikat <C> 13 Huom* 12 Merk*

Kdi je določeno v K47 ii je prejelo pozitivno ozeno 24 Poznámka*
CBV skladus Certifikatom KC;
Mis on silesatulu dokumentis K42 ja himatud 25 Not*
Sertifikatolis dokumentis CBV, vastavati
Sertifikatadile KC). asa cum se prevede în <A> și apreciat pozitiv de conform Certificatului <C> 19 Opomba* 20 Märkus*

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както е изложено в <A> и оценено положително от

a(z) <A> alapján, a(z) igazolta a megdelelést, 21 3a**6enexxa*** de fal C> Ce manteñang xemint agodne z dokumentaga <A> pozyfywną z powieja <A> pozyfywną opinią i Świadectwem <C> opinią i Świadectwem <C> .

kā norādīts <A> un pozitīvi novērtēts saskaņā ar съгласно Сертификата «С> кајр питофуа «А> ir teigiamai nuspręsta pagal «В> vadovaujantis Sertifikatu «С>.

ako bolo stanovené v <A> a kladne posúdené podľa Osvedčenia <C> <A>de belirtikigij ve <C> Sertifikasina gôre tarafindan olumlu gôrūş bildirtikigij ūzere.

Sertifikātu <C>.

AIKIN

Director

Ostend, 2nd of November 2022

3P516375-22V

UKCA - Safety declaration of conformity

Daikin Europe N.V.

declares under its sole responsibility that the products to which this declaration relates:

ARXF20E5V1B,ARXF25E5V1B,ARXF35E5V1B,ARXF42E5V1B, RXF20E5V1B,RXF25E5V1B,RXF35E5V1B,RXF42E5V1B,

are in conformity with the following directive(s) or regulation(s), provided that the products are used in accordance with our instructions:

as amended

S.I. 2016/1101: Electrical Equipment (Safety) Regulations 2016 S.I. 2016/1091: Electromagnetic Compatibility Regulations 2016* S.I. 2008/1597: Supply of Machinery (Safety) Regulations 2008**

following the provisions of:

BS EN 60335-2-40,

* as set out in <A> and judged positively by according to the Certificate <C>.

** Daikin Europe N.V. is authorised to compile the Technical Construction File.

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Ustend, 2nd of November 2022 Zandvoordestraat 300, B-8400 Oostende, Belgium

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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.

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 Business Portal (authentication required).

2 Specific installer safety instructions

Always observe the following safety instructions and regulations.

Unit installation (see "4 Unit installation" [▶ 7])



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" [▶7])



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

Connecting the refrigerant piping (see "5.2 Connecting the refrigerant piping" [> 9])



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.



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.



NOTICE

- Do NOT use mineral oil on flared part.
- Do NOT reuse piping from previous installations.
- NEVER install a drier to this R32 unit to guarantee its lifetime. The drying material may dissolve and damage the system.



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

Charging refrigerant (see "6 Charging refrigerant" [▶ 10])



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.



NOTICE

To avoid compressor breakdown, do NOT charge more than the specified amount of refrigerant.



WARNING

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

Electrical installation (see "7 Electrical installation" [▶ 11])



WARNING

The appliance MUST be installed in accordance with national wiring regulations.



WARNING

- All wiring MUST be performed by an authorised electrician and MUST comply with the applicable 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.

RXF20~42E5V1B R32 split series 3P650253-8H – 2022.10



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 shock.
- 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 shock 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.



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.

Finishing indoor unit installation (see "8 Finishing the outdoor unit installation" [> 12])



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 "9 Commissioning" [▶ 12])



DANGER: RISK OF ELECTROCUTION



DANGER: RISK OF BURNING/SCALDING



CAUTION

Do NOT perform the test operation while working on the indoor units.

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.

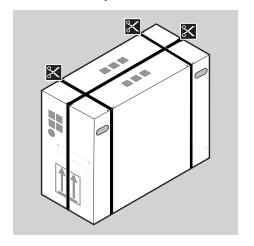
3 About the box

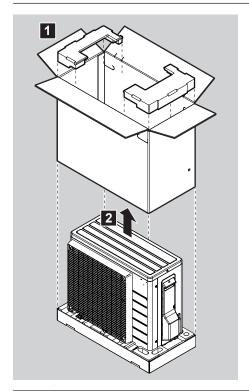
Keep the following in mind:

- At delivery, the unit MUST be checked for damage and completeness. Any damage or missing parts MUST be reported immediately to the claims agent of the carrier.
- Bring the packed unit as close as possible to its final installation position to prevent damage during transport.
- Prepare in advance the path along which you want to bring the unit to its final installation position.

3.1 Outdoor unit

3.1.1 To unpack the outdoor unit





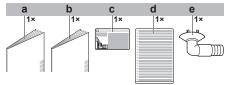


WARNING

Make sure installation, servicing, maintenance and repair comply with instructions from Daikin and with applicable legislation and are executed ONLY by authorised persons.

3.1.2 To remove the accessories from the outdoor unit

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



- General safety precautions
- Outdoor unit installation manual
- Fluorinated greenhouse gases label
- Multilingual fluorinated greenhouse gases label
 Drain plug (located on the bottom of the packing case)

Unit installation

4.1 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).

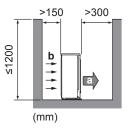


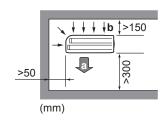
WARNING

Make sure installation, servicing, maintenance and repair comply with instructions from Daikin and with applicable legislation and are executed ONLY by authorised persons.

4.1.1 Installation site requirements of the outdoor unit

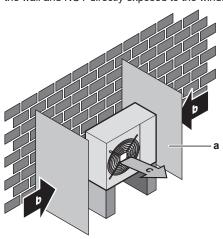
Mind the following spacing guidelines:





- Air outlet Air inlet
- It is recommended to install a baffle plate when the air outlet is exposed to wind.

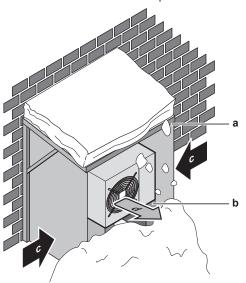
It is recommended to install the outdoor unit with the air inlet facing the wall and NOT directly exposed to the wind.



- Baffle plate
- Prevailing wind direction b
- Air outlet

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.



- Snow cover or shed
- Pedestal
- Prevailing wind direction
- Air outlet

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 "4.2 Mounting the outdoor unit" [> 8] for more details.

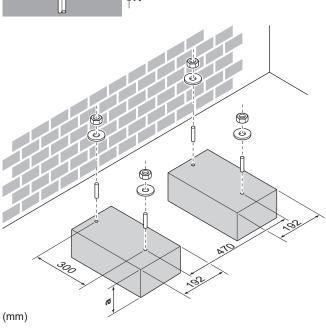
In heavy snowfall areas it is very important to select an installation site where the snow will NOT affect the unit. If lateral snowfall is possible, make sure that the heat exchanger coil is NOT affected by the snow. If necessary, install a snow cover or shed and a pedestal.

4.2 Mounting the outdoor unit

4.2.1 To provide the installation structure

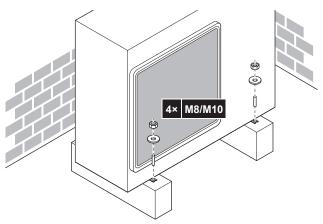
Prepare 4 sets of M8 or M10 anchor bolts, nuts and washers (field supply).





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

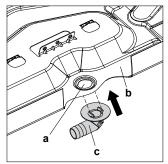
If the drain holes of the outdoor unit are blocked up by a mounting base or floor surface, place additional foot bases ≤30 mm under the outdoor unit's feet.

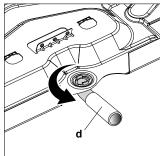


INFORMATION

For information on the available options, contact your dealer.

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



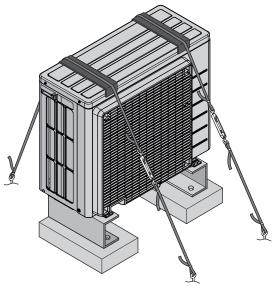


- a Drain port
- b Bottom frame
- c Drain plug
- d Hose (field supply)

4.2.4 To prevent the outdoor unit from falling over

In case the unit is installed in places where strong wind can tilt the unit, take following measure:

- Prepare 2 cables as indicated in the following illustration (field supply).
- 2 Place the 2 cables over the outdoor unit.
- 3 Insert a rubber sheet between the cables and the outdoor unit to prevent the cables from scratching the paint (field supply).
- 4 Attach the ends of the cables.
- 5 Tighten the cables.



5 Piping installation

5.1 Preparing refrigerant piping

5.1.1 Refrigerant piping requirements

- Piping material: phosphoric acid deoxidised seamless copper
- · Piping diameter:

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

· 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)		<u>J.t.</u>

⁽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 length and height difference

What?	Distance
Maximum allowable pipe length	20 m
Minimum allowable pipe length	1.5 m
Maximum allowable height difference	12 m

5.1.3 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 (Ø _p)	Insulation inner diameter (Ø _i)	Insulation thickness (t)
6.4 mm (1/4")	8~10 mm	≥10 mm
9.5 mm (3/8")	12~15 mm	



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.

5.2 Connecting the refrigerant piping



DANGER: RISK OF BURNING/SCALDING

5.2.1 About connecting the refrigerant piping

Before connecting the refrigerant piping

Make sure the outdoor and indoor unit are mounted.

Typical workflow

Connecting the refrigerant piping involves:

· Connecting the refrigerant piping to the indoor unit

- · Connecting the refrigerant piping to the outdoor unit
- Insulating the refrigerant piping
- Keeping in mind the guidelines for:
- Pipe bending
- · Flaring pipe ends
- · Using the stop valves

5.2.2 Precautions when connecting the refrigerant piping



DANGER: RISK OF BURNING/SCALDING



NOTICE

- Use the flare nut fixed to the main unit.
- To prevent gas leakage, apply refrigeration oil only to the inside of the flare. Use refrigeration oil for R32 (Example: FW68DA).
- Do NOT reuse joints.

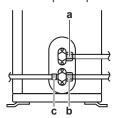


WARNING

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.

5.2.3 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.
- 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.

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).

6 Charging refrigerant



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

- 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
	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.

6 Charging refrigerant

6.1 About charging refrigerant

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

What	When
	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.

6.2 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

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



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 the unit.
- 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 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.



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

Contact your installer for more information.

6.3 To determine the additional refrigerant amount

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

6.4 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.

6.5 To charge additional refrigerant



WARNING

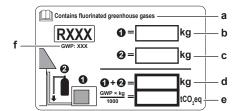
- Only use R32 as refrigerant. Other substances may cause explosions and accidents.
- R32 contains fluorinated greenhouse gases. Its global warming potential (GWP) value is 675. Do NOT vent these gases into the atmosphere.
- When charging refrigerant, ALWAYS use protective gloves and safety glasses.

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.

To fix the fluorinated greenhouse 6.6 gases label

1 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 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 applicable 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

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

Provide adequate measures to prevent that the unit can be used as a shelter by small animals. Small animals that make contact with electrical parts can cause malfunctions, smoke or fire.



WARNING

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

8 Finishing the outdoor unit installation



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.

7.1 Specifications of standard wiring components



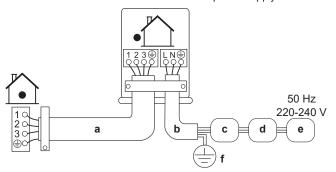
NOTICE

We recommend using solid (single-core) wires. If stranded wires are used, twist the conductor to consolidate the end or twist the conductor to consolidate the end in combination with the usage of a round crimp-style terminal on the end of the conductor. Details are described in "Guidelines when connecting the electrical wiring" in the installer reference guide.

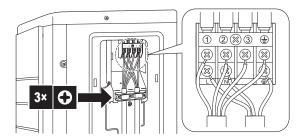
Component		
Power supply cable	Voltage	220~240 V
	Phase	1~
	Frequency	50 Hz
	Wire sizes	MUST comply with applicable legislation
Interconnection cable (indoor↔outdoor)		4-core cable ≥1.5 mm² and applicable for 220~240 V
Recommended field fuse		16 A
Earth leakage circuit breaker		MUST comply with applicable legislation

7.2 To connect the electrical wiring to the outdoor unit

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



- a Interconnection cable
- **b** Power supply cable
- c Circuit breaker
- d Residual current device
- e Power supply
- f Earth

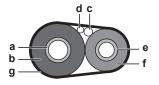


4 Tighten the terminal screws securely. We recommend using a Phillips screwdriver.

8 Finishing the outdoor unit installation

8.1 To finish the outdoor unit installation

1 Insulate and fix the refrigerant piping and cables as follows:



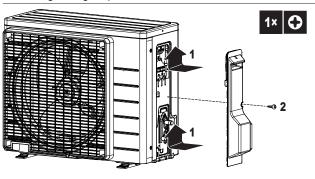
- a Gas pipe
- **b** Gas pipe insulation
- c Interconnection cable
- d Field wiring (if applicable)
- e Liquid pipe
- f Liquid pipe insulation
- f Liquid pipe ins finishing tape
- 2 Install the service cover.

8.2 To close the outdoor unit



NOTICE

When closing the outdoor unit cover, make sure that the tightening torque does NOT exceed 1.3 N•m.



9 Commissioning



NOTICE

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

9.1 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.	
	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.	

9.2 Checklist during commissioning

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

9.3 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.

9.4 Starting up the outdoor unit

See the indoor unit installation manual for configuration and commissioning of the system.

10 Troubleshooting

10.1 Fault diagnosis using LED on outdoor unit PCB

LED is		Diagnosis
₩	flashing	Normal.
		Check the indoor unit.
ф	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.



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.

11 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.

• Units are marked with the following symbol:



This means that electrical and electronic products may NOT be mixed with unsorted household waste. Do NOT try to dismantle the system yourself: dismantling the system, treatment of the refrigerant, of oil and of other parts MUST be done by an authorised installer and MUST comply with applicable legislation.

Units MUST be treated at a specialised treatment facility for reuse, recycling and recovery. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health. For more information, contact your installer or local authority.

12 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).

12.1 Wiring diagram

12.1.1 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
-	Connection		Protective earth (screw)
◎-‹ ◎,)-	Connector	(A), [Z]	Rectifier
Ţ	Earth	-(Relay connector
== ====================================	Field wiring		Short-circuit connector
	Fuse	-0-	Terminal
INDOOR	Indoor unit		Terminal strip
OUTDOOR	Outdoor unit	0 •	Wire clamp
	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
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

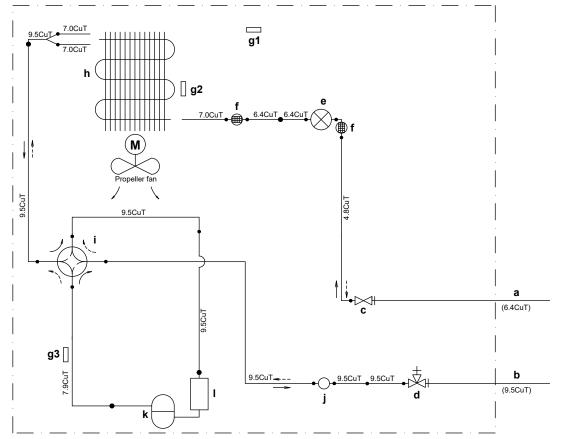
	I
Symbol	Meaning
HAP	Light emitting diode (service monitor green)
HIGH VOLTAGE	High voltage
IES	Intelligent eye sensor
IPM*	Intelligent power module
K*R, KCR, KFR, KHuR, K*M	Magnetic relay
L	Live
L*	Coil
L*R	Reactor
M*	Stepper motor
M*C	Compressor motor
M*F	Fan motor
M*P	Drain pump motor
M*S	Swing motor
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)
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

Symbol	Meaning
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

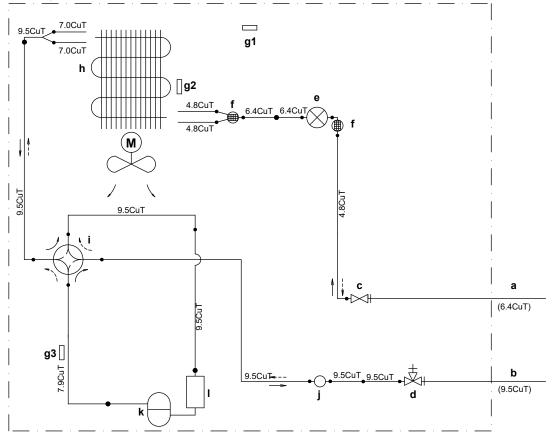
12.2 Piping diagram

12.2.1 Piping diagram: Outdoor unit

RXF20E, RXF25E, RXF35E, ARXF20E, ARXF25E, ARXF35E



RXF42E, ARXF42E



















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