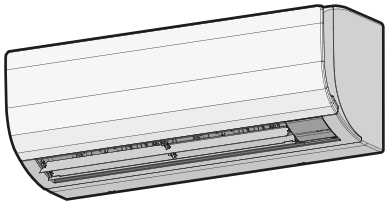
Installation and operation manual

VRV system air conditioner



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FXAA25AUV1B
FXAA32AUV1B
FXAA40AUV1B
FXAA50AUV1B
FXAA63AUV1B

Installation and operation manual
VRV system air conditioner

English

EU – Safety declaration of conformity
EU – Sicherheits-Konformitätserklärung
UE – Déclaration de conformité de sécurité
EU – Conformiteitsverklaring veiligheid

UE – Declaración de conformidad sobre seguridad
UE – Dichiarazione di conformità in materia di sicurezza
EE – 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

EU – Samsvarserklæring for sikkerhet
EU – Turvallisuuden vaatimustenmukaisuusvakuutus
EU – Bezpečnostní prohlášení o shodě

EU – Izjava o sukladnosti za sigurnost
EU – Biztonsági megfelelőségi nyilatkozat
UE – Deklaracja zgodności z wymogami bezpieczeństwa
UE – Declarație de conformitate de siguranță

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.

01 (GB) declares under its sole responsibility that the products to which this declaration relates:
02 (D) erklärt in alleinige Verantwortung, dass die Produkte, auf die sich diese Erklärung bezieht:
03 (F) déclare sous sa seule responsabilité que les produits visés par la présente déclaration:
04 (NL) verklaart hierbij op eigen verantwoordelijkheid dat de producten waarop deze verklaring betrekking heeft:
05 (E) declara bajo su única responsabilidad que los productos a los que hace referencia esta declaración:
06 (I) dichiara sotto la propria responsabilità che i prodotti a cui è riferita questa dichiarazione:
07 (GR) δηλώνει βάσει της αποκλειστικής της ευθύνης ότι τα προϊόντα στα οποία αναφέρεται η παρούσα δήλωση:
08 (P) declara sob sua exclusiva responsabilidade que os produtos a que esta declaração se refere:

09 (RUS) заявляет, исключительно под свою ответственность, что продукция, к которой относится настоящее заявление:
10 (DK) erklærer som eneansvarlig, at produkterne, som er omfattet af denne erklæring:
11 (S) deklarerar i egenskap av huvudansvarig, att produkterna som berörs av denna deklaration innebär att:
12 (N) erklærer et fullstendig ansvar for at produktene som er underlagt denne erklæringen:
13 (FIN) ilmoittaa yksinomaan omalla vastuullaan, että tämän ilmoituksen tarkoittamat tuotteet:
14 (CZ) prohlašuje na svou plnou odpovědnost, že výrobky, ke kterým se toto prohlášení vztahuje:
15 (HR) izjavljuje pod isključivo vlastitom odgovornošću da su proizvodi na koje se ova izjava odnosi:
16 (H) teljes felelősségre tudatában kijelenti, hogy a termékek, melyekre e nyilatkozat vonatkozik:

17 (PL) deklaruje na własną wyłączną odpowiedzialność, że produkty, których ta deklaracja dotyczy:
18 (RO) declară pe proprie răspundere că produsele la care se referă această declarație:
19 (SLO) z vso odgovornostjo izjavlja, da so izdelki, na katere se izjava nanaša:
20 (EST) kinnitab oma vastutusel, et tooted, mille kohta käesolev deklaratsioon kehtib:
21 (BG) декларира на своя отговорност, че продуктите, за които се отнася тази декларация:
22 (LT) savo išskirtine atsakomybe pareiškia, kad gaminiai, kuriems ši deklaracija taikoma:
23 (LV) ar pilnu atbildību apliecina, ka izstrādājumi, uz kuru attiecas šī deklarācija:
24 (SK) vyhlasuje na vlastnú zodpovednosť, že výrobky, na ktoré sa vzťahuje toto vyhlásenie:
25 (TR) tek sorumluluğu kendisine ait olmak üzere, bu beyanın ilgili olduğu ürünlerin:

FXAA15AUV1B, FXAA20AUV1B, FXAA25AUV1B, FXAA32AUV1B, FXAA40AUV1B, FXAA50AUV1B, FXAA63AUV1B,

01 are in conformity with the following directive(s) or regulation(s), provided that the products are used in accordance with our instructions:
02 folgender/n Richtlinie/n oder Vorschrift/en entsprechen, vorausgesetzt, dass diese gemäß unseren Instruktionen verwendet werden:
03 sont conformes à la/aux directive(s) ou règlement(s) suivant(s), à condition que les produits soient utilisés conformément à nos instructions:
04 in overeenstemming zijn met de volgende richtlijn(en) of verordening(en), op voorwaarde dat de producten worden gebruikt overeenkomstig onze instructies:
05 están en conformidad con la(s) siguiente(s) directiva(s) o reglamento(s), siempre que se utilicen de acuerdo con nuestras instrucciones:
06 sono conformi alle direttive o ai regolamenti seguenti, a patto che i prodotti vengano usati in conformità alle nostre istruzioni:
07 συμμορφώνονται με την(ις) ακόλουθη(ες) οδηγία(ες) ή κανονισμό(ούς), υπό την προϋπόθεση ότι τα προϊόντα χρησιμοποιούνται σύμφωνα με τις οδηγίες μας:
08 estão em conformidade com a(s) seguinte(s) diretiva(s) ou regulamento(s), desde que os produtos sejam utilizados de acordo com as nossas instruções:

09 отвечает требованиям упомянутых ниже директив или нормативных документов при условии эксплуатации данной продукции в соответствии с нашими инструкциями:
10 overholder bestemmelserne i følgende direktiv(er) eller bestemmelse(r), forudsat at produkterne anvendes i overensstemmelse med vores instruktioner:
11 uppfyller följande direktiv eller föreskrift(er), under förutsättning att produkterna används i enlighet med våra instruktioner:
12 er i overensstemmelse med følgende direktiv(er) eller forskrift(er), forutsatt at produktene brukes i henhold til våre instruksjoner:
13 ovat seuraavien direktiivien tai asetusten mukaisia, edellyttäen että tuotteita käytetään ohjeidemme mukaisesti:
14 jsou ve shodě s následujícími směrnicemi nebo předpisy za předpokladu, že tyto výrobky jsou používány v souladu s našimi pokyny:
15 u skladu sa sljedećom direktivom(ma) ili odredbom(a), uz uvjet da se proizvodi koriste sukladno našim uputama:
16 megfelelnek az alábbi irányelv(ek)nek vagy egyéb szabályozás(ok)nak, ha a termékeket előírás szerint használják:

17 spełniają wymogi następujących dyrektyw lub rozporządzeń, pod warunkiem że produkty używane są zgodnie z naszymi instrukcjami:
18 sunt în conformitate cu următoarele directive sau regulamente, cu condiția ca produsele să fie utilizate în conformitate cu instrucțiunile noastre:
19 v skladu z naslednjo direktivo(-ami) ali predpisom(-i) pod pogojem, da se izdelki uporabljajo v skladu z našimi navodili:
20 vastavad järgmise (järgmiste) direktiivi(de) ja määruse (määruste) nõuetele, tingimusel, et neid kasutatakse vastavuses meie juhistele:
21 са в съответствие със следната директива(и) или регламент(и), при условие че продуктите се използват в съответствие с нашите инструкции:
22 atitinka toliau nurodytas direktyvas arba reglamentus, su sąlyga, kad gaminiai bus eksploatuojami laikantis mūsų instrukcijų:
23 atbilst šādām direktīvām vai regulām, ja vien šie izstrādājumi tiek lietoti saskaņā ar mūsu instrukcijām:
24 sú v zhode s nasledujúcou(imi) smernicou(ami) alebo predpisom(mi) za predpokladu, že sa výrobky používajú v zhode s našimi pokynmi:
25 talimatlarımız doğrultusunda kullanılması koşuluyla aşağıdaki direktife/direktiflere veya yönetmeliğe/yönetmeliklere uygun olduğunu beyan eder:

Machinery 2006/42/EC**
Electromagnetic Compatibility 2014/30/EU*

01 as amended,
02 in der jeweils gültigen Fassung,
03 telles que modifiées,
04 zoals gewijzigd,
05 en su forma enmendada,
06 e successive modifiche,
07 όπως έχουν τροποποιηθεί,
08 conforme emendado,
09 в действующей редакции,
10 som tilføjet,
11 med tillägg,
12 med foretatte endringer,
13 sellaisina kuin ne ovat muutettuina,
14 v platném znění,
15 kako je izmijenjeno amandmanima,
16 és módosításaik rendelkezéseit,
17 z późniejszymi zmianami,
18 cu amendamentele respective,
19 kakor je bilo spremenjeno,
20 koos muudatustega,
21 с техните изменения,
22 ir jos tolesnes redakcijas,
23 ar grozījumiem,
24 v poslednom platnom vydaní,
25 değiştirildiği şekliyle,

01 following the provisions of:
02 gemäß den Bestimmungen in:
03 conformément aux dispositions de:
04 volgens de bepalingen van:
05 siguiendo las disposiciones de:
06 secondo le disposizioni di:
07 σύμφωνα με τις προβλέψεις των:
08 seguindo as disposições de:
09 в соответствии с положениями:
10 under iagttagelse af:
11 enligt bestämmelserna för:
12 i henhold til bestemmelsene i:
13 noudattaen säännöksiä:
14 za dodržení ustanovení:
15 prema odredbama:
16 követi a(z):
17 zgodnie z postanowieniami:
18 urmând prevederile:
19 v skladu z določbami:
20 vastavalt nõuetele:
21 следвайки клаузите на:
22 vadovaujantis šio dokumento nuostatomis:
23 atbilstoši šādu standartu prasībām:
24 nasledovnými ustanoveniami:
25 şu standartların hükümlerine:

EN 60335-2-40,

01 Note* as set out in <A> and judged positively by <B> according to the **Certificate <C>**.
02 Hinweis* wie in <A> aufgeführt und von <B> positiv beurteilt gemäß **Zertifikat <C>**.
03 Remarque* telles que définies dans <A> et évaluées positivement par <B> conformément au **Certificat <C>**.
04 Bemerk* zoals uiteengezet in <A> en positief beoordeeld door <B> overeenkomstig het **Certificaat <C>**.
05 Nota* tal como se establece en <A> y valorado positivamente por <B> de acuerdo con el **Certificado <C>**.
06 Nota* come delineato in <A> e giudicato positivamente da <B> ai sensi del **Certificato <C>**.
07 Σημείωση* όπως ορίζεται στο <A> και κρίνεται θετικά από τον <B> σύμφωνα με το **Πιστοποιητικό <C>**.
08 Nota* conforme estabelecido em <A> e avaliado positivamente por <B> de acordo com o **Certificado <C>**.
09 Примечание* как указано в <A> и подтверждено <B> согласно Свидетельству **<C>**.
10 Bemærk* Som anført i <A> og positivt vurderet af <B> i henhold til **Certifikat <C>**.
11 Information* som anges i <A> och godkänts av <B> enligt **Certifikat <C>**.
12 Merk* som det fremkommer i <A> og vurdert positivt av <B> i henhold til **Sertifikatet <C>**.
13 Huom* sellaisina kuin ne on esitetty asiakirjassa <A> ja jotka <B> on hyväksynyt **Sertifikaatin <C>** mukaisesti.
14 Poznámka* jak bylo uvedeno v <A> a pozitivně zjištěno <B> v souladu s **Osvědčením <C>**.
15 Napomena* kako je izloženo u <A> i pozitivno ocijenjeno od <B> prema **Certifikatu <C>**.
16 Megjegyzés* a(z) <A> alapján, a(z) <B> igazolta a megfelelést, a(z) **<C> tanúsítvány** szerint.
17 Uwaga* zgodnie z dokumentacją <A>, pozytywną opinią <B> i **Świadectwem <C>**.
18 Notă* așa cum se prevede în <A> și apreciat pozitiv de <B> conform **Certificatului <C>**.
19 Opomba* Kot je določeno v <A> in je prejelo pozitivno oceno <B> v skladu s **Certifikatom <C>**.
20 Märkus* Mis on sätestatud dokumendis <A> ja hinnatud vastuvõetuks dokumendis <B>, vastavalt **Sertifikaadile <C>**.
21 Забележка* както е изложено в <A> и оценено положително от <B> съгласно **Сертификата <C>**.
22 Pastaba* kaip nurodyta <A> ir teigiamai nuspręsta pagal <B>, vadovaujantis **Sertifikatu <C>**.
23 Piezīmes* kā norādīts <A> un pozitīvi novērtēts <B> saskaņā ar **Sertifikātu <C>**.
24 Poznámka* ako bolo stanovené v <A> a kladne posúdené <B> podľa **Osvedčenia <C>**.
25 Not* <A>'de belirtildiği ve <B> tarafından olumlu görüş bildirildiği üzere. **<C> Sertifikasına** göre

<A>	**DAIKIN.TCF.036A1/11-2020**
<B>	**TÜV (NB0197)**
<C>	**60149720**

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22** Daikin Europe N.V. yra įgaliota sudaryti šį techninės konstrukcijos failą.
23** Daikin Europe N.V. ir autorizēts sastādīt tehnisko dokumentāciju.
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25** Daikin Europe N.V. Teknik Yapı Dosyasını derlemeye yetkilidir.

4P687305-9B

DAIKIN

Hiromitsu Iwasaki
Director
Ostend, 1st of June 2022

DAIKIN EUROPE N.V.
Zandvoordestraat 300, B-8400 Oostende, Belgium

UKCA – Safety declaration of conformity

Daikin Europe N.V.

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

FXAA15AUV1B, FXAA20AUV1B, FXAA25AUV1B, FXAA32AUV1B, FXAA40AUV1B, FXAA50AUV1B, FXAA63AUV1B,

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

S.I. 2008/1597: Supply of Machinery (Safety) Regulations 2008** as amended,
S.I. 2016/1091: Electromagnetic Compatibility Regulations 2016*

following the provisions of: BS EN 60335-2-40,

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

<A>	**DAIKIN.TCF.036A1/11-2020**
<B>	**—**
<C>	**—**

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

Hiromitsu Iwasaki
Director
Ostend, 1st of June 2022

DAIKIN EUROPE N.V.
Zandvoordestraat 300, B-8400 Oostende, Belgium

Table of Contents

1 About the documentation

1.1 About this document

WARNING

Make sure installation, servicing, maintenance, repair and applied materials follow the instructions from Daikin 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.

Target audience

Authorised installers + end users

INFORMATION

This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.

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 indoor unit)
- **Indoor unit installation and operation manual:**
  - Installation and operation instructions
  - Format: Paper (in the box of the indoor unit)
- **Installer and user reference guide:**
  - Preparation of the installation, good practices, reference data,…
  - Detailed step-by-step instructions and background information for basic and advanced usage
  - Format: Digital files on https://www.daikin.eu. Use the search function 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.

General

WARNING

Make sure installation, servicing, maintenance, repair and applied materials follow the instructions from Daikin 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.

Unit installation (see "12 Unit installation" [▶ 14])

For additional installation site requirements, read also "2.1 Instructions for equipment using R32 refrigerant" [▶ 6].

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).

CAUTION

Appliance NOT accessible to the general public, install it in a secured area, protected from easy access.

This unit, both indoor and outdoor, is suitable for installation in a commercial and light industrial environment.

WARNING

Keep any required ventilation openings clear of obstructions.

CAUTION

For walls containing a metal frame or a metal board, use a wall embedded pipe and wall cover in the feed-through hole to prevent possible heat, electrical shock, or fire.

Refrigerant piping installation (see "13 Piping installation" [▶ 20])

CAUTION

Piping MUST be installed according to instructions given in "13 Piping installation" [▶ 20]. Only mechanical joints (e.g. braze+flare connections) that are compliant with the latest version of ISO14903 can be used.

CAUTION

Install the refrigerant piping or components in a position where they are unlikely to be exposed to any substance which may corrode components containing refrigerant, unless the components are constructed of materials that are inherently resistant to corrosion or are suitably protected against corrosion.

Electrical installation (see "14 Electrical installation" [▶ 20])

WARNING

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

WARNING

- 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, stranded conductor 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.

CAUTION

- Each indoor unit has to be connected to a separate user interface. Only a safety system compatible remote controller can be used as the user interface. See technical data sheet for remote controller compatibility (e.g. BRC1H52/82*).
- The user interface has to be put in the same room as the indoor unit. For details, please refer to the installation and operation manual of the user interface.

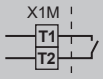
CAUTION

In case shielded wire is used, connect the shielding to the outdoor unit side only.

Configuration (see "17 Configuration" [▶ 23])

WARNING

In case of R32 refrigerant, terminal connections T1/T2 are for fire alarm input ONLY. Fire alarm has a higher priority than R32 safety and shuts the entire system down.



a Fire alarm input signal (potential free contact)

2.1 Instructions for equipment using R32 refrigerant

WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.

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

The appliance shall be stored so as to prevent mechanical damage and in a well-ventilated room without continuously operating ignition sources (example: open flames, an operating gas appliance or an operating electric heater) and have a room size as specified below.

WARNING

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

CAUTION

Do NOT use potential sources of ignition in searching for or detection of refrigerant leaks.

NOTICE

- Take precautions to avoid excessive vibration or pulsation to refrigeration piping.
- Protect the protection devices, piping and fittings as much as possible against adverse environmental effects.
- Provide expansion and contraction of long runs of piping.
- Design and install piping in refrigerating systems such as to minimise the likelihood of hydraulic shock damaging the system.
- Mount the indoor equipment and pipes securely and protect them to avoid accidental rupture of equipment or pipes in case of events such as moving furniture or reconstruction activities.

NOTICE

- Do NOT re-use joints and copper gaskets which have been used already.
- Joints made in installation between parts of refrigerant system shall be accessible for maintenance purposes.

WARNING

If one or more rooms are connected to the unit using a duct system, make sure:

- there are no operating ignition sources (example: open flames, an operating gas appliance or an operating electric heater) in case the floor area is less than the minimum floor area A (m²).
- no auxiliary devices, which may be a potential ignition source, are installed in the duct work (example: hot surfaces with a temperature exceeding 700°C and electric switching device);
- only auxiliary devices approved by the manufacturer are used in the duct work;
- air inlet AND outlet are connected directly to the same room by ducting. Do NOT use spaces such as a false ceiling as a duct for the air inlet or outlet.

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.

2.1.1 Installation space requirements

CAUTION

The total refrigerant charge in the system cannot exceed the requirements for minimum floor area of the smallest room that is served. For minimum floor area requirements for indoor units, see the installation and operation manual of the outdoor unit.

WARNING

This appliance contains R32 refrigerant. For the minimum floor area of the room in which the appliance is stored refer to installation and operation manual of the outdoor unit.

NOTICE

- Protect pipework from physical damage.
- Keep the pipework installation to a minimum.

For the user

3 User safety instructions

Always observe the following safety instructions and regulations.

3.1 General

WARNING

If you are NOT sure how to operate the unit, contact your installer.

WARNING

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction

concerning use of the appliance in a safe way and understand the hazards involved.

Children SHALL NOT play with the appliance.

Cleaning and user maintenance SHALL NOT be made by children without supervision.

⚠ WARNING

To prevent electrical shocks or fire:

- Do NOT rinse the unit.
- Do NOT operate the unit with wet hands.
- Do NOT place any objects containing water on the unit.

⚠ CAUTION

- Do NOT place any objects or equipment on top of the unit.
- Do NOT sit, climb or stand on the unit.

- 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.

- Batteries are marked with the following symbol:

This means that the batteries may NOT be mixed with unsorted household waste. If a chemical symbol is printed beneath the symbol, this chemical symbol means that the battery contains a heavy metal above a certain concentration.

Possible chemical symbols are: Pb: lead (>0.004%).

Waste batteries MUST be treated at a specialised treatment facility for reuse. By ensuring waste batteries are disposed of correctly, you will help to prevent potential negative consequences for the environment and human health.

3.2 Instructions for safe operation

⚠ WARNING

- Do NOT modify, disassemble, remove, reinstall or repair the unit yourself as incorrect dismantling or installation may cause an electrical shock or fire. Contact your dealer.
- In case of accidental refrigerant leaks, make sure there are no naked flames. The refrigerant itself is entirely safe, non-toxic and mildly flammable, but it will generate toxic gas when it accidentally leaks into a room where combustible air from fan heaters, gas cookers, etc. is present. Always have qualified service personnel confirm that the point of leakage has been repaired or corrected before resuming operation.

⚠ CAUTION

This unit is equipped with electrically powered safety measures, such as a refrigerant leak detector. In order to be effective, the unit must be electrically powered at all times after installation, except for short service periods.

⚠ CAUTION

- NEVER touch the internal parts of the controller.
- Do NOT remove the front panel. Some parts inside are dangerous to touch and appliance problems may happen. For checking and adjusting the internal parts, contact your dealer.

⚠ WARNING

This unit contains electrical and hot parts.

⚠ WARNING

Before operating the unit, be sure the installation has been carried out correctly by an installer.

⚠ CAUTION

It is unhealthy to expose your body to the air flow for a long time.

CAUTION

To avoid oxygen deficiency, ventilate the room sufficiently if equipment with burner is used together with the system.

CAUTION

Do NOT operate the system when using a room fumigation-type insecticide. Chemicals could collect in the unit, and endanger the health of people who are hypersensitive to chemicals.

CAUTION

- ALWAYS use a user interface (e.g. wireless remote control) to adjust the angle of the flap. When the flap is swinging and you move it forcibly by hand, the mechanism will break.
- Be careful when adjusting the louvers. Inside the air outlet, a fan is rotating at high speed.

CAUTION

NEVER expose little children, plants or animals directly to the airflow.

WARNING

Do NOT place a flammable spray bottle near the air conditioner and do NOT use sprays near the unit. Doing so may result in a fire.

WARNING

Keep any required ventilation openings clear of obstructions.

Maintenance and service (see "7 Maintenance and service" [▶ 11])

CAUTION: Pay attention to the fan!

It is dangerous to inspect the unit while the fan is running.

Make sure to turn OFF the main switch before executing any maintenance task.

CAUTION

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

WARNING

NEVER replace a fuse with a fuse of a wrong ampere ratings or other wires when a fuse blows out. Use of wire or copper wire may cause the unit to break down or cause a fire.

CAUTION

After a long use, check the unit stand and fitting for damage. If damaged, the unit may fall and result in injury.

CAUTION

Before accessing terminal devices, make sure to interrupt all power supply.

DANGER: RISK OF ELECTROCUTION

To clean the air conditioner or air filter, be sure to stop operation and turn all power supplies OFF. Otherwise, an electrical shock and injury may result.

WARNING

Be careful with ladders when working in high places.

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 warning label for persons performing service and maintenance.

CAUTION

Turn off the unit before cleaning the air outlet, exterior, front panel and air filter.

WARNING

Do NOT let the indoor unit get wet.
Possible consequence: Electrical shock or fire.

About the refrigerant (see "7.3 About the refrigerant" [▸ 13])

WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.

WARNING

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

WARNING

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

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 R32 refrigerant leakage sensor must be replaced after every detection or at the end of its lifetime. ONLY authorised persons may replace the sensor.

Troubleshooting (see "8 Troubleshooting" [▸ 14])

WARNING

Stop operation and shut OFF the power if anything unusual occurs (burning smells etc.).

Leaving the unit running under such circumstances may cause breakage, electrical shock or fire. Contact your dealer.

4 About the system

WARNING

- Do NOT modify, disassemble, remove, reinstall or repair the unit yourself as incorrect dismantling or installation may cause an electrical shock or fire. Contact your dealer.
- In case of accidental refrigerant leaks, make sure there are no naked flames. The refrigerant itself is entirely safe, non-toxic and mildly flammable, but it will generate toxic gas when it accidentally leaks into a room where combustible air from fan heaters, gas cookers, etc. is present. Always have qualified service personnel confirm that the point of leakage has been repaired or corrected before resuming operation.

WARNING

The unit is equipped with a refrigerant leak detection system for safety.

To be effective, the unit MUST be electrically powered at all times after installation, except for short service periods.

NOTICE

Do NOT use the system for other purposes. In order to avoid any quality deterioration, do NOT use the unit for cooling precision instruments, food, plants, animals, or works of art.

NOTICE

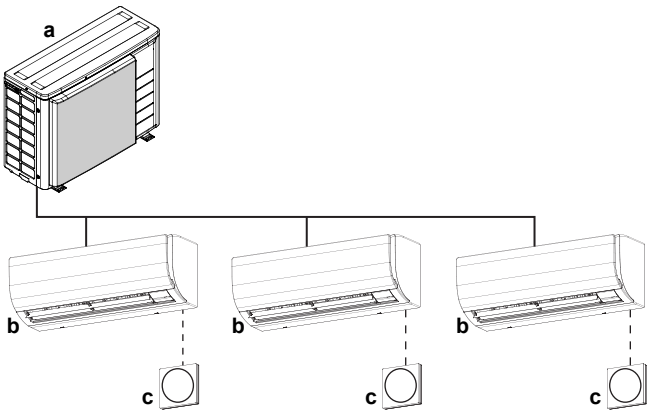
For future modifications or expansions of your system:

A full overview of allowable combinations (for future system extensions) is available in technical engineering data and should be consulted. Contact your installer to receive more information and professional advice.

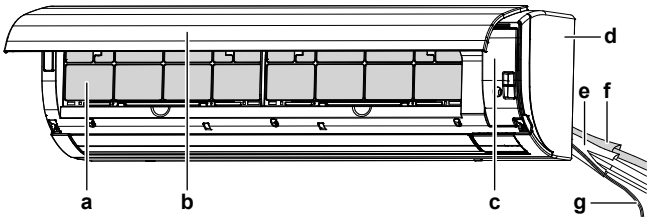
4.1 System layout

INFORMATION

The following figure is an example and may NOT completely match your system layout



a Outdoor unit
b Indoor unit
c User interface



a Air filter
b Front panel
c Service cover
d Front grille
e Refrigerant pipes
f Drain hose
g Electrical wiring

5 User interface

CAUTION

- NEVER touch the internal parts of the controller.
- Do NOT remove the front panel. Some parts inside are dangerous to touch and appliance problems may happen. For checking and adjusting the internal parts, contact your dealer.

NOTICE

Do NOT wipe the controller operation panel with benzine, thinner, chemical dust cloth, etc. The panel may get discoloured or the coating peeled off. If it is heavily dirty, soak a cloth in water-diluted neutral detergent, squeeze it well and wipe the panel clean. Wipe it with another dry cloth.

NOTICE

NEVER press the button of the user interface with a hard, pointed object. The user interface may be damaged.

NOTICE

NEVER pull or twist the electric wire of the user interface. It may cause the unit to malfunction.

This operation manual offers a non-exhaustive overview of the main functions of the system.

For more information about the user interface, see the operation manual of the installed user interface.

6 Operation

6.1 Operation range

INFORMATION

For the operation limits see the technical data of the connected outdoor unit.

6.2 About operation modes

INFORMATION

Depending on the installed system, some operation modes will not be available.

- The air flow rate may adjust itself depending on the room temperature or the fan may stop immediately. This is not a malfunction.
- If the main power supply is turned off during operation, operation will restart automatically after the power turns back on again.
- **Setpoint.** Target temperature for the Cooling, Heating, and Auto operation modes.
- **Setback.** A function that keeps the room temperature in a specific range when the system is turned off (by the user, the schedule function, or the OFF timer).

6.2.1 Basic operation modes

The indoor unit can operate in various operation modes.

Icon	Operation mode
	Cooling. In this mode, cooling will be activated as required by the setpoint, or by Setback operation.
	Heating. In this mode, heating will be activated as required by the setpoint, or by Setback operation.
	Fan only. In this mode, air circulates without heating or cooling.
	Dry. In this mode, the air humidity will be lowered with a minimal temperature decrease. The temperature and fan speed are controlled automatically and cannot be controlled by the controller. Dry operation will not function if the room temperature is too low.
	Auto. In Auto mode, the indoor unit automatically switches between heating and cooling mode, as required by the setpoint.

6.2.2 Special heating operation modes

Operation	Description
Defrost	To prevent a loss of heating capacity due to frost accumulation in the outdoor unit, the system will automatically switch to defrost operation. During defrost operation, the indoor unit fan will stop operation, and the following icon will appear on the home screen:  The system will resume normal operation after approximately 6 to 8 minutes.

Operation	Description
Hot start	During hot start, the indoor unit fan will stop operation, and the following icon will appear on the home screen: 

6.2.3 Airflow direction

When. Adjust the airflow direction as desired.

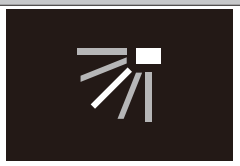
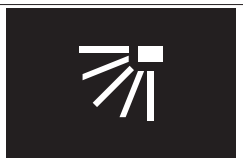
What. The system directs the airflow differently, depending on the user selection.

CAUTION

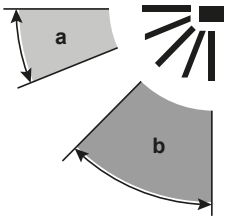
- ALWAYS use a user interface (e.g. wireless remote control) to adjust the angle of the flap. When the flap is swinging and you move it forcibly by hand, the mechanism will break.
- Be careful when adjusting the louvers. Inside the air outlet, a fan is rotating at high speed.

1 Vertical airflow

The following vertical airflow directions can be set by the user interface:

Direction	Screen
Fixed position. The indoor unit blows air in 1 of 5 fixed positions.	
Swing. The indoor unit alternates between the 5 positions.	

Note: Recommended position of the horizontal blades (flaps) varies according to the operation mode.



a Cooling operation
b Heating operation

INFORMATION

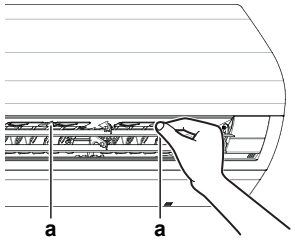
For setting procedure of the vertical airflow direction, see the reference guide or the manual of the used user interface.

2 Horizontal airflow

- Horizontal airflow: by manually adjusting position of the vertical blades (louvers).

To adjust the louvers (vertical blades)

1. Adjust horizontal blades using the user interface so you can easily access the knobs on the vertical blades.
2. Hold knobs and move them down slightly.
3. Adjust left or right to the desired position while holding the knobs.



a Knobs

INFORMATION

When the unit is installed in a corner of a room, the direction of the louvers should be facing away from the wall. Efficiency will drop if a wall blocks the air.

6.3 To operate the system

INFORMATION

For setting of the operation mode or other settings, see the reference guide or operation manual of the user interface.

7 Maintenance and service

7.1 Precautions for maintenance and service

CAUTION

See "3 User safety instructions" [▸ 6] to acknowledge all related safety instructions.

NOTICE

NEVER inspect or service the unit by yourself. Ask a qualified service person to perform this work. However, as end user, you may clean the air outlet, exterior, front panel and air filter.

NOTICE

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

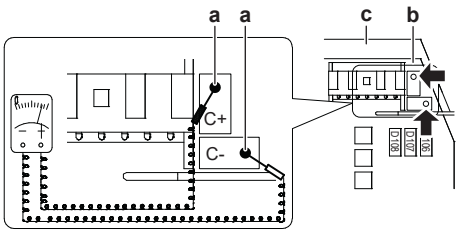
We recommend performing maintenance at least once a year. However, applicable legislation might require shorter maintenance intervals.

Following symbols may occur on the indoor unit:

Symbol	Explanation
	Measure the voltage at the terminals of main circuit capacitors or electrical components before servicing.

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 warning label for persons performing service and maintenance.



a Residual voltage measuring points (C-, C+)
b Printed circuit board
c Control box

7.2 Cleaning the unit

CAUTION

Turn off the unit before cleaning the air outlet, exterior, front panel and air filter.

NOTICE

- Do NOT use gasoline, benzene, thinner polishing powder or liquid insecticide. **Possible consequence:** Discoloration and deformation.
- Do NOT use water or air of 50°C or higher. **Possible consequence:** Discoloration and deformation.
- Do NOT scrub firmly when washing the blade with water. **Possible consequence:** The surface sealing peels off.

7.2.1 To clean the air outlet and exterior

WARNING

Do NOT let the indoor unit get wet. **Possible consequence:** Electrical shock or fire.

Clean with a soft cloth. If it is difficult to remove stains, use water or neutral detergent.

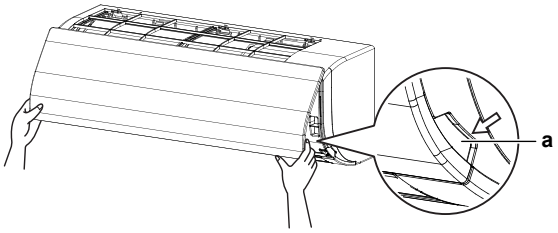
7.2.2 To clean the front panel

WARNING

Do NOT let the indoor unit get wet. **Possible consequence:** Electrical shock or fire.

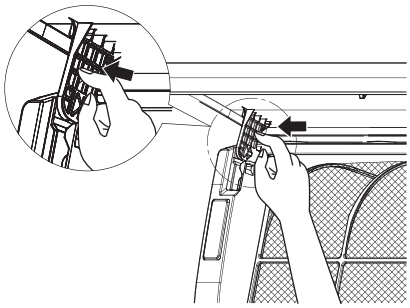
You can remove the front panel to clean it.

1 Open the front panel. Hold the front panel by the panel tabs on both sides and open until the panel stops.



a Panel tab

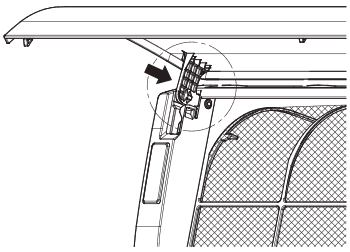
2 Remove the front panel by pushing hooks on either side of the front panel towards the side of the unit and remove the panel.



3 Clean the front panel. Wipe it with a soft cloth soaked in water by using only neutral detergent.

4 Wipe panel with a dry soft cloth and let it dry up in the shade.

5 Attach the front panel. Align the hooks of the front panel with the slots and push them all the way in.



6 Close the front panel slowly.

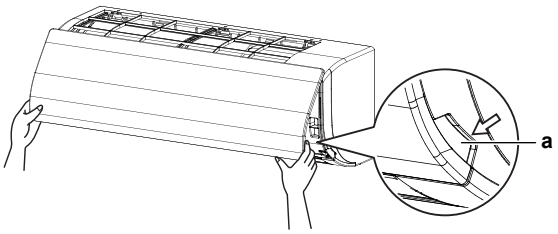
7.2.3 To clean the air filter

When to clean the air filter:

- Rule of thumb: Clean every 6 months. If the air in the room is extremely contaminated, increase the cleaning frequency.
- Depending on the settings, the user interface can display the **"Time to clean filter"** notification. Clean the air filter when the notification is displayed.
- If the dirt becomes impossible to clean, change the air filter (= optional equipment).

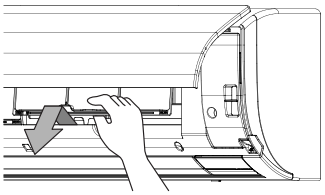
How to clean the air filter:

1 **Open the front panel.** Hold the front panel by the panel tabs on both sides and open until the panel stops.

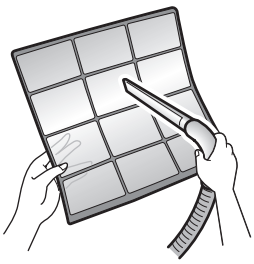


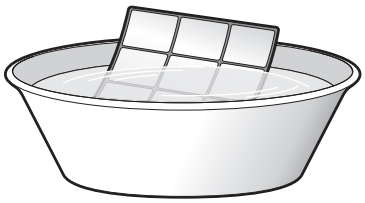
a Panel tab

2 **Remove the air filter.** Push up the tab in the center of the air filter slightly then pull the air filter out in a downward direction.



3 **Clean the air filter**. Use a vacuum cleaner or wash with water. If the air filter is very dirty, use a soft brush and neutral detergent.





4 **Dry the air filter in the shadow.**

5 **Reattach the air filter.** Replace the air filter as it was.

6 **Close the front panel.** Hold the front panel by the panel tabs on both sides and close it slowly.

7 Turn ON the power.

8 To remove warning screens, see the reference guide of the user interface.

7.3 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 CO_2 equivalent.

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

Contact your installer for more information.

7.3.1 About the refrigerant leakage sensor

WARNING

The R32 refrigerant leakage sensor must be replaced after every detection or at the end of its lifetime. ONLY authorised persons may replace the sensor.

NOTICE

The R32 refrigerant leakage sensor is a semiconductor detector which may incorrectly detect substances other than R32 refrigerant. Avoid using chemical substances (e.g. organic solvents, hair spray, paint) in high concentrations, in the close proximity of the indoor unit because this may cause misdetection by the R32 refrigerant leakage sensor.

NOTICE

Functionality of the safety measures are periodically automatically checked. In case of malfunction, an error code will be displayed on the user interface.

INFORMATION

The sensor has a lifetime of 10 years. The user interface displays error "**CH-05**" 6 months before the end of the sensor lifetime and error "**CH-02**" after the end of the sensor lifetime. For more information, refer to the reference guide of the user interface and contact your dealer.

In case of detection when the unit is operating

1 The user interface displays error "**A0-11**" and emits an alarm sound. The status indicator blinks.

2 Contact your dealer immediately. For more information, see the installation manual of the outdoor unit.

In case of detection when the unit is in standby

When the detection occurs when the unit is in standby, the unit performs a "false detection check".

False detection check

1 The fan starts turning on the lowest setting.

2 The user interface displays error "**A0-13**" and emits an alarm sound. The status indicator blinks.

3 The sensor checks if a refrigerant leakage or misdetection occurred.

- No refrigerant leakage detected. **Result:** The system resumes normal operation after approximately 2 minutes.
- Refrigerant leakage detected. **Result:**

1 The user interface displays error "**A0-11**" and emits an alarm sound. The status indicator blinks.

2 Contact your dealer immediately. For more information, see the installation manual of the outdoor unit.

INFORMATION

The minimum airflow during normal operation or during the refrigerant leakage detection is always >240 m^3/h.

INFORMATION

To stop the alarm of the user interface, see the reference guide of the user interface.

8 Troubleshooting

If one of the following malfunctions occur, take the measures shown below and contact your dealer.

WARNING

Stop operation and shut OFF the power if anything unusual occurs (burning smells etc.).

Leaving the unit running under such circumstances may cause breakage, electrical shock or fire. Contact your dealer.

The system MUST be repaired by a qualified service person.

Malfunction	Measure
If a safety device such as a fuse, a circuit breaker or a residual current device frequently actuates or the ON/OFF switch does NOT function properly.	Turn OFF all main power supply switches to the unit.
If water leaks from the unit.	Stop operation.
The operation switch does NOT function properly.	Turn OFF the power supply.
If the user interface displays ⚠.	Notify your installer and report the error code. To display an error code see the reference guide of the user interface.

If the system does NOT operate properly except for the above mentioned cases and none of the above mentioned malfunctions is evident, investigate the system in accordance with the following procedures.

INFORMATION

Refer to the reference guide located on https://www.daikin.eu for more troubleshooting tips. Use the search function 🔍 to find your model.

If after checking all above items, it is impossible to fix the problem yourself, contact your installer and state the symptoms, the complete model name of the unit (with manufacturing number if possible) and the installation date (possibly listed on the warranty card).

9 Relocation

Contact your dealer to remove and reinstall the entire unit. Moving units requires technical expertise.

10 Disposal

NOTICE

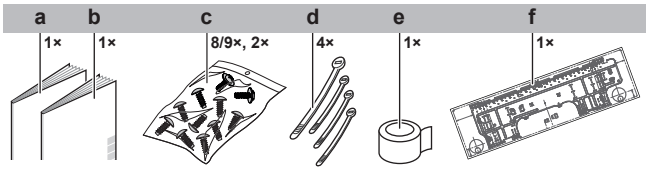
Do NOT try to dismantle the system yourself: dismantling of the system, treatment of the refrigerant, oil and other parts MUST comply with applicable legislation. Units MUST be treated at a specialised treatment facility for reuse, recycling and recovery.

For the installer

11 About the box

11.1 Indoor unit

11.1.1 To remove the accessories from the indoor unit



a Installation and operation manual
b General safety precautions
c Screw pack: M4×25L (8× for FXAA15~32, 9× for FXAA40~63), 2× M4×12L
d Tie wraps (1 large, 3 small)
e Insulation tape
f Paper pattern for installation

12 Unit installation

12.1 Preparing the installation site

Avoid installation in an environment with a lot of organic solvents such as ink and siloxane.

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).

12.1.1 Installation site requirements of the indoor unit

Minimum floor area requirements

CAUTION

The total refrigerant charge in the system cannot exceed the requirements for minimum floor area of the smallest room that is served. For minimum floor area requirements for indoor units, see the installation and operation manual of the outdoor unit.

INFORMATION

The sound pressure level is less than 70 dBA.

WARNING

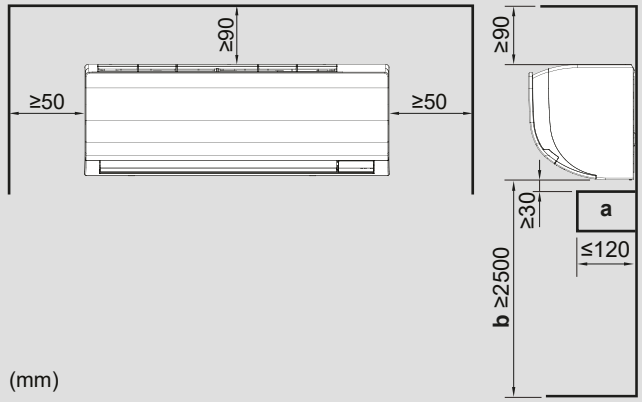
Keep any required ventilation openings clear of obstructions.

CAUTION

Appliance NOT accessible to the general public, install it in a secured area, protected from easy access.

This unit, both indoor and outdoor, is suitable for installation in a commercial and light industrial environment.

- **Wall strength.** Check whether the wall is strong enough to support the weight of the unit. If there is a risk, reinforce the wall before installing the unit.
- **Spacing**. Mind the following requirements:



a Obstruction
b Minimum distance to the floor

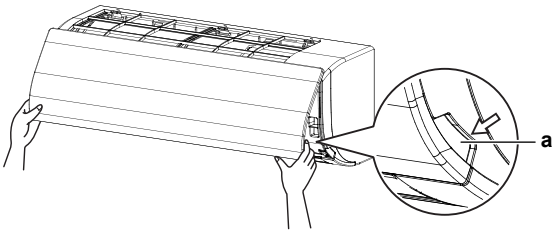
NOTICE

NEVER mount the indoor unit directly on the wall. Use the attached mounting plate for installation.

12.2 Opening and closing the unit

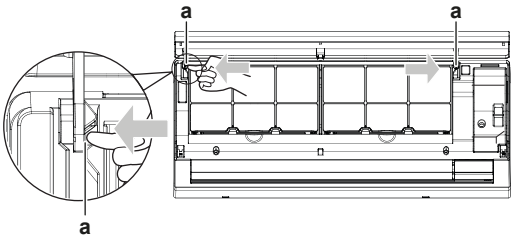
12.2.1 To remove the front panel

1 Open the front panel. Hold the front panel by the panel tabs on both sides and open until the panel stops.



a Panel tabs

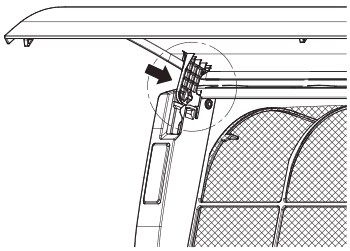
2 Remove the front panel by pushing hooks on either side of the front panel towards the side of the unit and remove the panel. Or remove it by sliding the front panel either to the left or right and pulling it forward.



a Panel hook

12.2.2 To re-install the front panel

1 To attach the front panel, align the hooks of the front panel with the slots and push them all the way in.



2 Close the front panel slowly.

12.2.3 To remove the front grille

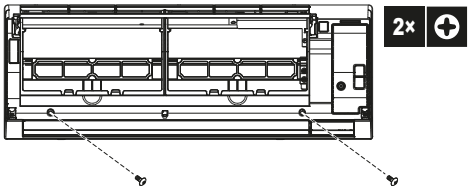
CAUTION

Wear adequate personal protective equipment (protective gloves, safety glasses,…) when installing, maintaining or servicing the system.

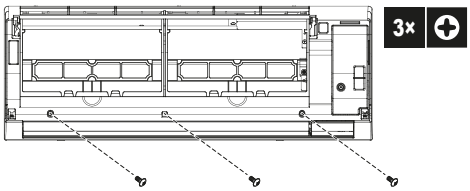
1 Remove the front panel("12.2.1 To remove the front panel" [▸ 15]).

2 Remove the screws.

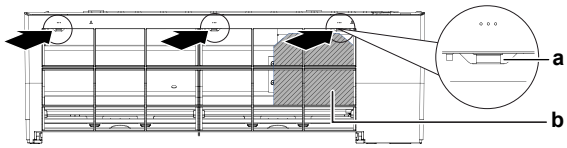
- 2 for FXAA15~32



- 3 for FXAA40~63

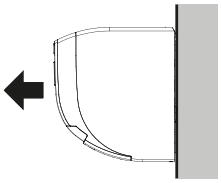


3 Push down the 3 upper hooks marked with a symbol with 3 circles in the direction of the arrows. Remove cardboard between the filter and the heat exchanger.



a Hook
b Cardboard

4 Making sure not to catch the horizontal flaps, remove the front grille by pulling in the direction of the arrow.



12.2.4 To re-install the front grille

1 Install the front grille and firmly engage the 3 upper hooks.

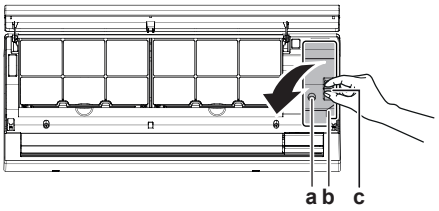
2 Install the screws back (2 for FXAA15~32 and 3 for FXAA40~63).

3 Re-install front panel ("12.2.2 To re-install the front panel" [▸ 15]).

12.2.5 To open the service cover

1 Remove 1 screw from the service cover.

2 Pull out the service cover horizontally away from the unit.



a Service cover screw
b Service cover
c Handle

12.2.6 To close the service cover

1 Place the service cover to its original place on the unit.

2 Install 1 screw back on the service cover.

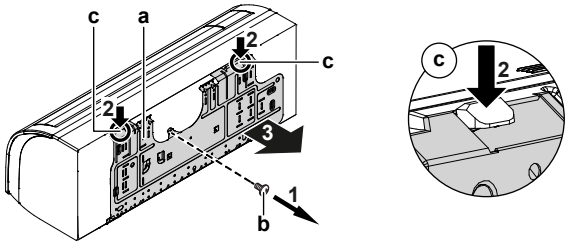
12.3 Mounting the indoor unit

12.3.1 To install the mounting plate

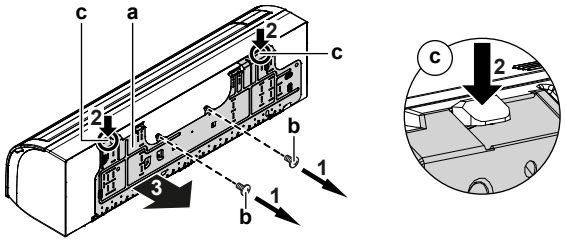
1 Remove the mounting plate from the unit.

- Remove one screw from FXAA15~32 or 2 screws from FXAA40~63.
- Push the knobs in the direction of the arrow.
- Remove the mounting plate.

A



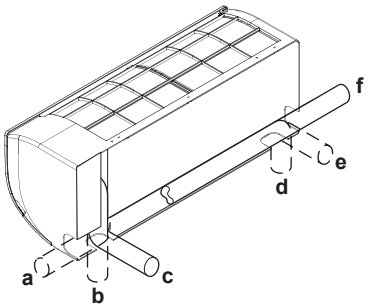
B



A FXAA15~32
B FXAA40~63
a Mounting plate
b Screw
c Knob

2 Use the paper pattern for installation (accessory).

3 Choose position for piping (for bottom or side piping see "12.3.3 To remove the pipe port cover" [▶ 18]):



a Right piping
b Bottom-right piping
c Back-right piping
d Bottom-left piping
e Back-left piping
f Left piping

4 Attach the mounting plate on the wall and install it temporarily.

5 Level the mounting plate (use tabs on the mounting plate).

6 Mark the centers of the drilling points on the wall using a tape measure. Position the end of tape measure at symbol "▷".

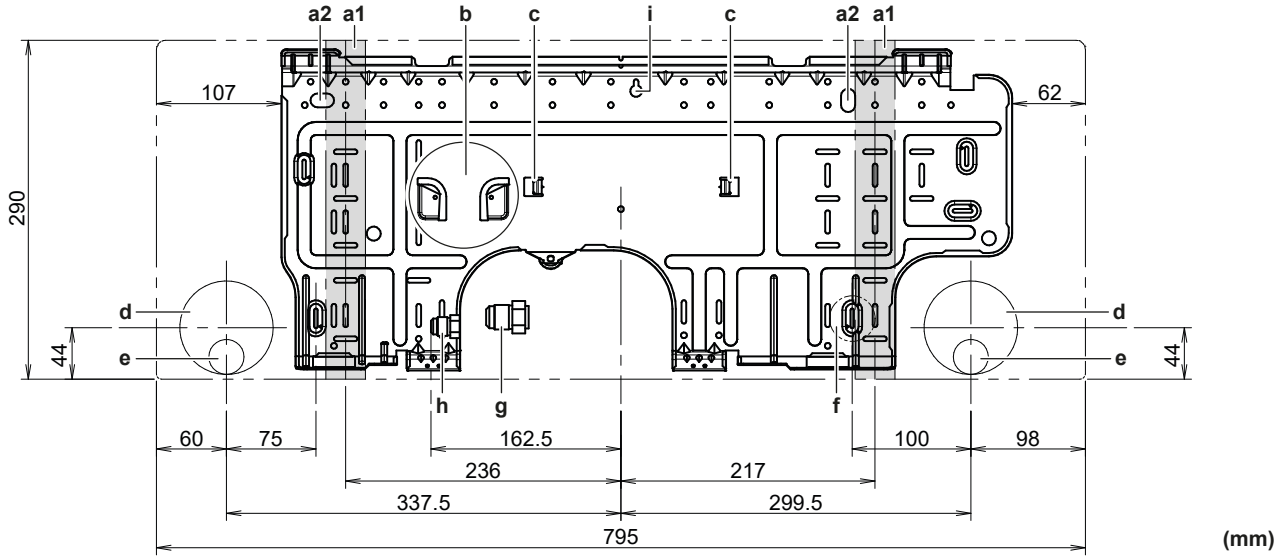
7 Finish the installation by securing the mounting plate on the wall:

- When using M4×25L screws (accessory): use 8 screws for FXAA15~32 or 9 screws for FXAA40~63. Install evenly at least 4 screws on each side.
- When using bolts (**Example:** for concrete wall): use M8~M10 bolts (field supply) one for each side.

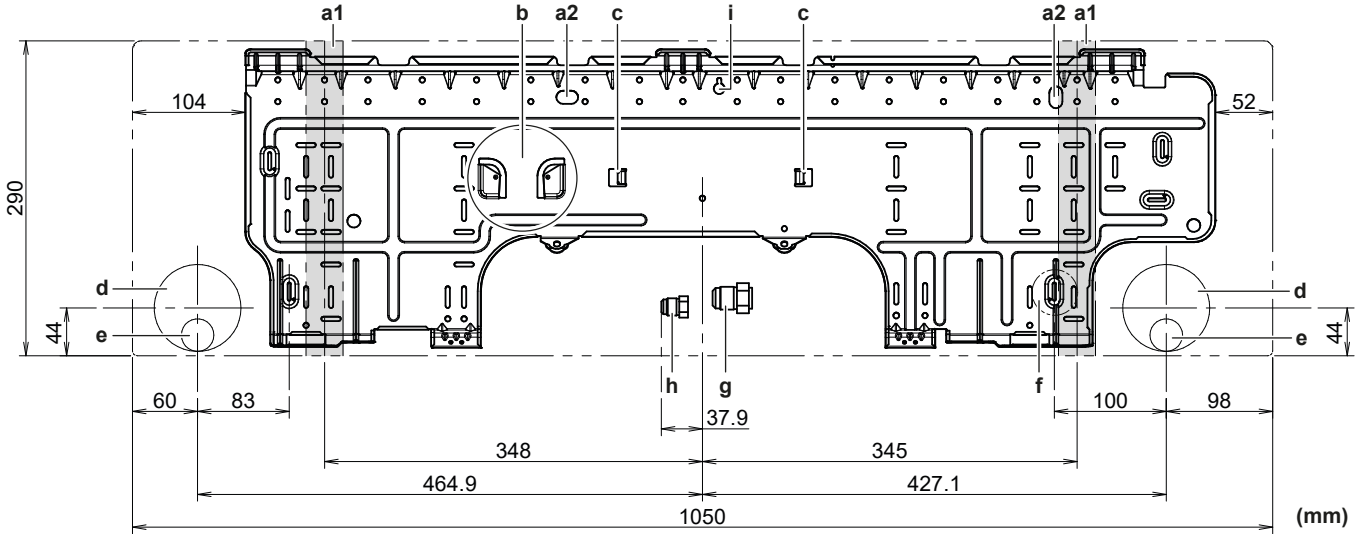
INFORMATION

The removed pipe port cover can be kept in the mounting plate pocket.

A



B



A Paper pattern for installation with mounting plate for FXAA15~32
B Paper pattern for installation with mounting plate for FXAA40~63
a1 Recommended fixation location
a2 Recommended fixing spots
b Pocket for the pipe port cover
c Tabs for placing a spirit level
d Through-the-wall hole Ø80 mm
e Drain hose position
f Position for the tape measure at symbol "▷"
g Gas pipe end
h Liquid pipe end
i Temporary fixing hole

12.3.2 To drill a wall hole

CAUTION

For walls containing a metal frame or a metal board, use a wall embedded pipe and wall cover in the feed-through hole to prevent possible heat, electrical shock, or fire.

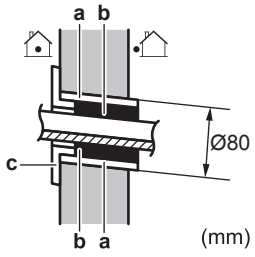
NOTICE

Be sure to seal the gaps around the pipes with sealing material (field supply), in order to prevent water leakage.

1 Drill a 80 mm large feed-through hole in the wall with a downward slope towards the outside.

2 Insert a wall embedded pipe into the hole.

3 Insert a wall cover into the wall pipe.



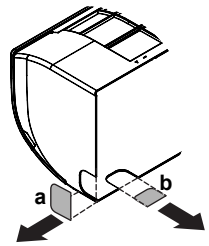
a Wall embedded pipe (field supply)
b Putty (field supply)
c Wall hole cover (field supply)

4 After completing wiring, refrigerant piping and drain piping, do NOT forget to seal the gap with putty.

12.3.3 To remove the pipe port cover

INFORMATION

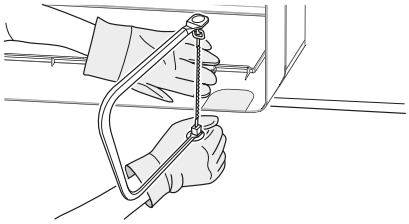
To connect the piping on right-side, right-bottom, left-side or left-bottom, the pipe port cover MUST be removed.



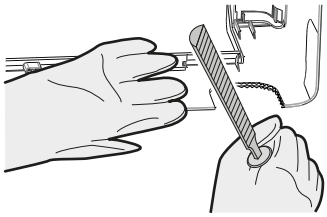
a Cut off for side piping
b Cut off for bottom piping

1 Remove the front grille.

2 Cut off the pipe port cover from inside the front grille using a coping saw.



3 Remove any burrs along the cut section using a half round needle file.



NOTICE

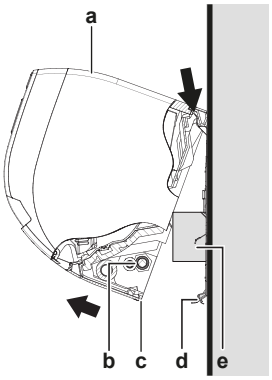
Do NOT use nippers to remove the pipe port cover, as this would damage the front grille.

12.3.4 To hook the unit on the mounting plate

1 Remove the front panel.

2 Set the indoor unit on the mounting plate hooks. Use the "△" marks as a guide.

3 Place piece of packing material for support.



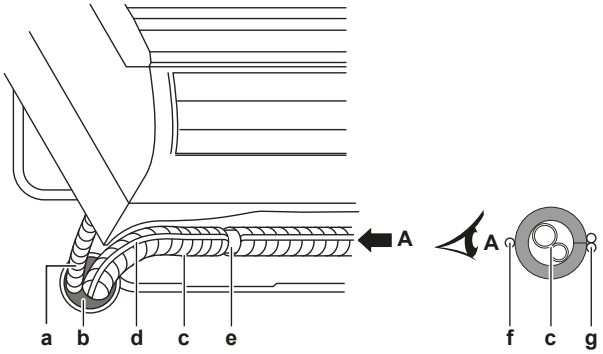
a Front grille
b Refrigerant piping
c Tab 2×
d Mounting plate (accessory)
e Piece of packing material

12.3.5 To pass the pipes through the wall hole

1 Connect the drain piping "12.3.6 To provide drainage" [▶ 18], the refrigerant piping "13 Piping installation" [▶ 20] and the electrical wiring "14 Electrical installation" [▶ 20].

2 Shape the refrigerant pipes along the pipe path marking on the mounting plate.

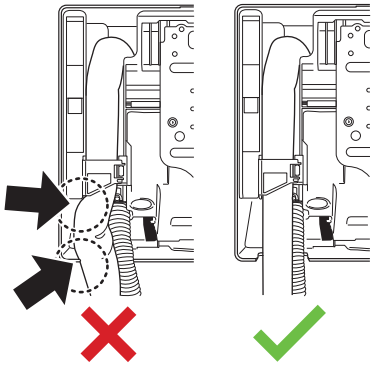
3 Fix the electrical wiring and the refrigerant pipes together using vinyl tape (field supply).



a Drain hose
b Wall hole
c Refrigerant piping
d Electrical wiring
e Vinyl tape (field supply)
f Power supply wiring
g Transmission wiring and user interface wiring

NOTICE

- Do NOT bend refrigerant pipes.
- Do NOT push the refrigerant pipes onto the bottom frame or the front grille.



4 Pass the drain hose and refrigerant piping through the wall hole and seal the gap with a putty.

5 When the complete installation is finished (drain piping "12.3.6 To provide drainage" [▶ 18], the refrigerant piping "13 Piping installation" [▶ 20] and the electrical wiring "14 Electrical installation" [▶ 20]), fix the indoor unit on the mounting plate "15.1 To fix the unit on the mounting plate" [▶ 22].

12.3.6 To provide drainage

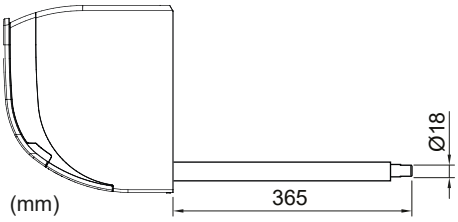
Make sure condensation water can be evacuated properly. This involves:

- General guidelines
- Connecting the drain piping to the indoor unit
- Checking for water leaks

General guidelines

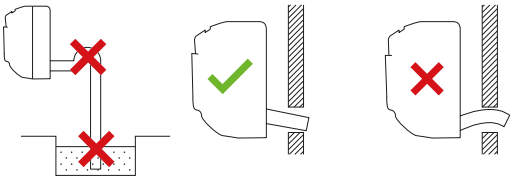
- **Pipe length.** Keep drain piping as short as possible.

- **Pipe size.** Keep the pipe size equal to or greater than that of the connecting pipe (vinyl pipe with nominal Ø13 mm).

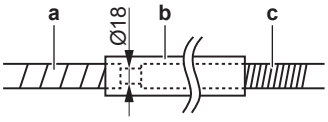


NOTICE

- Install the drain hose with a downward slope.
- Traps are NOT permitted.
- Do NOT put the end of the hose in water.

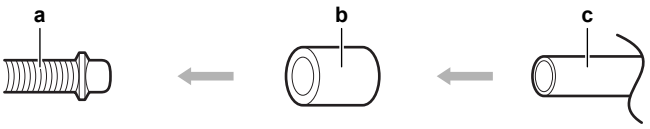


- **Drain hose extension.** When extending the drain hose, use a field supplied extension hose with nominal Ø13 mm. Do NOT forget to use a heat insulation tube on the indoor section of the extension hose.



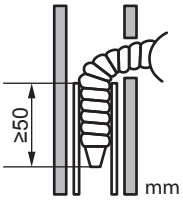
a Drain hose supplied with the indoor unit
b Heat insulation tube (field supply)
c Extension drain hose (field supply)

- **Rigid polyvinyl chloride pipe.** When connecting a rigid polyvinyl chloride pipe (nominal Ø13 mm) directly to the drain hose as with embedded piping work, use a field supplied drain socket (nominal Ø13 mm).



a Drain hose supplied with the indoor unit
b Drain socket with nominal Ø13 mm (field supply)
c Rigid polyvinyl chloride pipe (field supply)

- **Insert the drain hose in the drain pipe** as shown in the following figure, so it will NOT be pulled out of the drain pipe.



- **Condensation.** Take measures against condensation. Insulate the complete drain piping in the building.

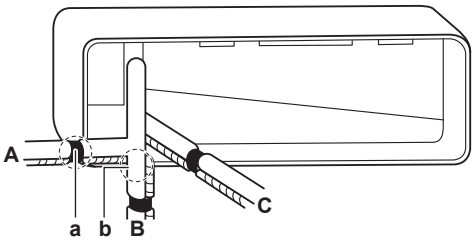
To connect the piping on right side, right-back, or right-bottom

INFORMATION

The factory default is right-side piping. For left-side piping, remove the piping from the right side and install it on the left side.

1 Attach the drain hose with adhesive vinyl tape to the bottom of the refrigerant pipes.

2 Wrap the drain hose and the refrigerant pipes together using insulation tape.



A Right-side piping
B Right-bottom piping
C Right-back piping
a Remove the pipe port cover here for right side piping
b Remove the pipe port cover here for right-bottom piping

To connect the piping on left side, left-back, or left-bottom

INFORMATION

The factory default is right-side piping. For left-side piping, remove the piping from the right side and install it on the left side.

1 Remove the insulation fixing screw on the right side and remove the drain hose.

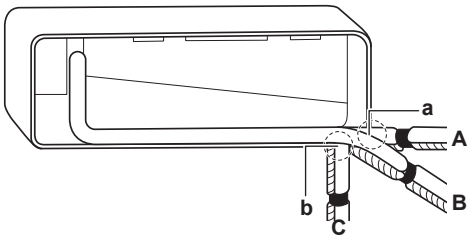
2 Remove the drain plug on the left side and attach it to the right side.

NOTICE

Do NOT apply lubricating oil (refrigerant oil) to the drain plug when inserting it. The drain plug may deteriorate and cause drain leakage from the plug.

3 Insert the drain hose on the left side and do not forget to tighten it with the fixing screw; otherwise water leakage may occur.

4 Attach the drain hose to the refrigerant piping bottom side using adhesive vinyl tape.

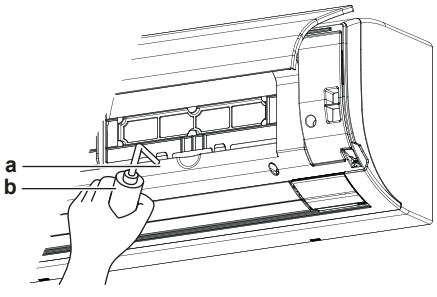


A Left-side piping
B Left-back piping
C Left-bottom piping
a Remove the pipe port cover here for left-side piping
b Remove the pipe port cover here for left-bottom piping

To check for water leaks

1 Remove the air filters (see "7.2.3 To clean the air filter" [▶ 12]).

2 Gradually pour approximately 1 l of water in the drain pan, and check for water leaks.



a Drain pan

b Plastic container

3 Reattach the air filters (see "7.2.3 To clean the air filter" [▸ 12]).

13 Piping installation

13.1 Preparing refrigerant piping

13.1.1 Refrigerant piping requirements

CAUTION

Piping MUST be installed according to instructions given in "13 Piping installation" [▸ 20]. Only mechanical joints (e.g. braze+flare connections) that are compliant with the latest version of ISO14903 can be used.

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

For piping connections of the indoor unit use the following piping diameters:

Class	Pipe outer diameter (mm)	
	Liquid pipe	Gas pipe
15~32	Ø6.4	Ø9.5
40~63		Ø12.7

Refrigerant piping material

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

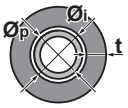
Outer diameter (Ø)	Temper grade	Thickness (t)[a]	
6.4 mm (1/4")	Annealed (O)	≥0.8 mm	
9.5 mm (3/8")			
12.7 mm (1/2")			

[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.

13.1.2 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 ($Ø_p$)	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	≥13 mm
12.7 mm (1/2")	14~16 mm	≥13 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.

13.2 Connecting the refrigerant piping

DANGER: RISK OF BURNING/SCALDING

13.2.1 To connect the refrigerant piping to the indoor unit

CAUTION

Install the refrigerant piping or components in a position where they are unlikely to be exposed to any substance which may corrode components containing refrigerant, unless the components are constructed of materials that are inherently resistant to corrosion or are suitably protected against corrosion.

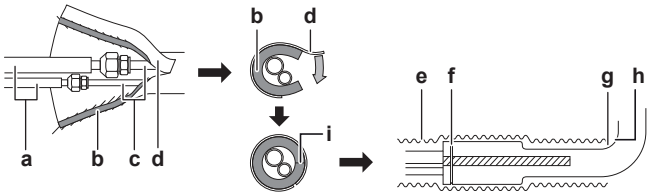
WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.

- **Pipe length**. Keep refrigerant piping as short as possible.

1 **Flare connections**. Connect refrigerant piping to the unit using flare connections.

2 **Insulation**. Insulate the refrigerant piping, the insulating tape should be wrapped from the L-shaped bend all the way to the end inside the unit as follows:



a Field piping
b Indoor unit piping insulation tubing
c Indoor unit piping
d Insulating tubing tape
e Insulating tape (accessory)
f Large tie wrap (accessory)
g Beginning of wrapping
h L-shaped bend
i Insulation tubing seam (make sure there are no gaps in the insulation tubing seam)

NOTICE

Make sure to insulate all refrigerant piping. Any exposed piping might cause condensation.

14 Electrical installation

DANGER: RISK OF ELECTROCUTION

WARNING

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

WARNING

ALWAYS use multicore cable for power supply cables.

WARNING

Use an all-pole disconnection type breaker with at least 3 mm between the contact point gaps that 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.

14.1 Specifications of standard wiring components

Component		Class			
		15+20	25~40	50	63
Power supply cable	MCA[a]	0.3 A	0.4 A	0.5 A	0.6 A
	Voltage	220~240 V			
	Phase	1~			
	Frequency	50 Hz			
	Wire sizes	1.5 mm² (3-core wire) H07RN-F (60245 IEC 66)			
Transmission wiring		For specification refer to the installation manual of the outdoor unit			
User interface cable		0.75 to 1.25 mm² (2-core wire) H05RN-F (60245 IEC 57) Length ≤500 m			
Recommended field fuse		6 A			
Residual current device		Must comply with applicable legislation			

[a] MCA=Minimum circuit ampacity. Stated values are maximum values (see electrical data of indoor unit for exact values).

14.2 To connect the electrical wiring to the indoor unit

NOTICE

- Follow the wiring diagram (delivered with the unit, located at the inside of the service cover).
- For instructions on how to connect the optional equipment, see the installation manual delivered with the optional equipment.
- Make sure the electrical wiring does NOT obstruct proper reattachment of the service cover.

It is important to keep the power supply and the transmission wiring separated from each other. In order to avoid any electrical interference the distance between both wirings should ALWAYS be at least 50 mm.

NOTICE

Be sure to keep the power line and transmission line apart from each other. Transmission wiring and power supply wiring may cross, but may NOT run parallel.

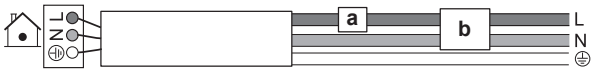
1 Remove the service cover (see "12.2.5 To open the service cover" [▸ 16]).

2 **User interface cable**: Connect the cable to the terminal block (symbols P1, P2).

3 **Transmission cable**: Connect the cable to the terminal block (make sure the symbols F1, F2 match with the symbols on the outdoor unit).

4 Fix user interface cable together with the transmission cable with a tie wrap (accessory).

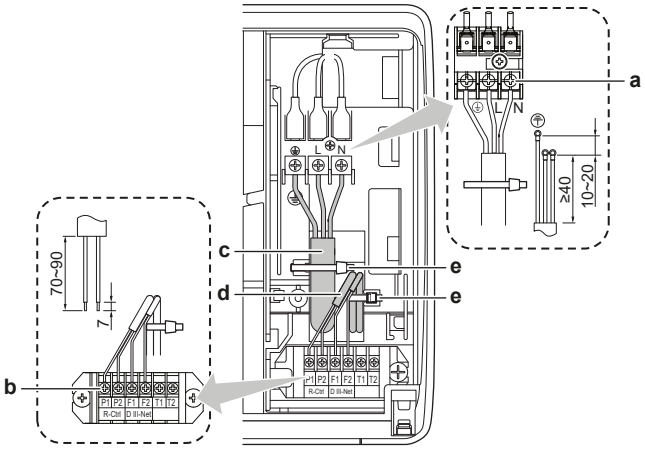
5 **Power supply cable**: Connect the cable to the terminal block (L, N, earth).



a Circuit breaker
b Residual current device

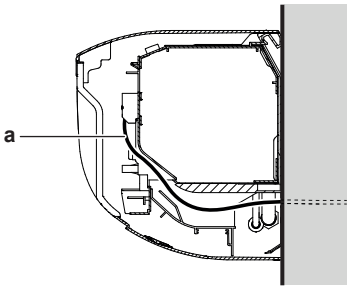
6 Seal all gaps with a sealing material (field supply) to prevent small animals from entering the system.

7 Reattach the service cover (see "12.2.6 To close the service cover" [▸ 16]).



a Power supply wiring terminal
b Transmission and user interface wiring terminal
c Power supply wiring
d Transmission and user interface terminal wiring
e Small tie wraps 2× (accessory)

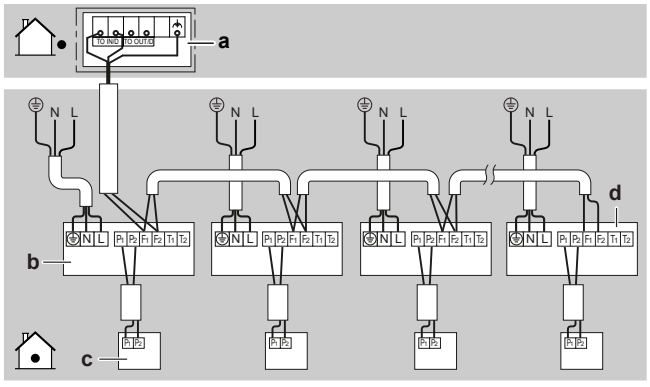
Electrical wiring route:



a Electrical wiring

Complete system example

1 user interface controls 1 indoor unit.



a Outdoor unit
b Indoor unit
c User interface
d Most downstream indoor unit

NOTICE

For the use of group control and related limitations refer to manual of outdoor unit.

CAUTION

- Each indoor unit has to be connected to a separate user interface. Only a safety system compatible remote controller can be used as the user interface. See technical data sheet for remote controller compatibility (e.g. BRC1H52/82*).
- The user interface has to be put in the same room as the indoor unit. For details, please refer to the installation and operation manual of the user interface.

CAUTION

In case shielded wire is used, connect the shielding to the outdoor unit side only.

15 Finishing the indoor unit installation

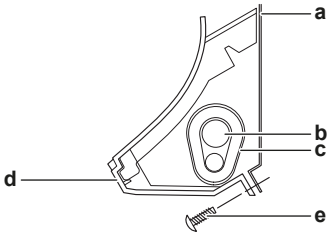
15.1 To fix the unit on the mounting plate

1 Remove the piece of packing material.

2 Press the bottom frame of the unit with both hands to set it on the bottom hooks of the mounting plate. Make sure that the wires do NOT get squeezed or caught anywhere.

3 Press the bottom edge of the indoor unit with both hands until it is firmly caught by the mounting plate hooks.

4 Secure the indoor unit to the mounting plate using 2 indoor unit fixing screws M4×12L (accessory).



a Mounting plate (accessory)
b Refrigerant piping
c Insulation tape
d Bottom frame
e Screw M4×12L (2 pieces from accessory)

5 Re-install the front grille ("12.2.4 To re-install the front grille" [▸ 15]).

6 Re-install the front panel ("12.2.2 To re-install the front panel" [▸ 15]).

16 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.

16.1 Checklist before commissioning

1 After the installation of the unit, check the items listed below.

2 Close the unit.

3 Power up the unit.

☐	You have read the complete installation and operation instructions described in the **installer and user reference guide**.
☐	**Installation** Check that the unit is properly installed, to avoid abnormal noises and vibrations when starting up the unit.
☐	**Drainage** Make sure drainage flows smoothly. **Possible consequence:** Condensate water might drip.
☐	**Field wiring** Be sure that the field wiring has been carried out according to the instructions described in the chapter "14 Electrical installation" [▸ 20], according to the wiring diagrams and according to the applicable legislation.
☐	**Power supply voltage** Check the power supply voltage on the local supply panel. The voltage MUST correspond to the voltage on the nameplate of the unit.
☐	**Earth wiring** Be sure that the earth wires have been connected properly and that the earth terminals are tightened.
☐	**Fuses, circuit breakers, or protection devices** Check that the fuses, circuit breakers, or the locally installed protection devices are of the size and type specified in the chapter "14 Electrical installation" [▸ 20]. Be sure that neither a fuse nor a protection device has been bypassed.
☐	**Internal wiring** Visually check the electrical component box and the inside of the unit for loose connections or damaged electrical components.
☐	**Pipe size and pipe insulation** Be sure that correct pipe sizes are installed and that the insulation work is properly executed.
☐	**Damaged equipment** Check the inside of the unit for damaged components or squeezed pipes.
☐	**Field settings** Make sure all field settings you want are set. See "17.1 Field setting" [▸ 23].

16.2 To perform a test run

INFORMATION

- Perform the test run according to the instructions in the outdoor unit manual.
- The test run is only completed if there is no malfunction code displayed on the user interface or the outdoor unit 7-segment display.
- See the service manual for the complete list of error codes and a detailed troubleshooting guideline for each error.

NOTICE

Do NOT interrupt the test run.

17 Configuration

17.1 Field setting

Make the following field settings so that they correspond with the actual installation setup and with the needs of the user:

- Airflow rate increase mode
- Air volume when thermostat control is OFF
- Time to clean air filter
- Thermostat sensor selection
- Thermostat differential changeover (if remote sensor is used)
- Differential for automatic changeover
- Auto-restart after power failure
- T1/T2 input setting

INFORMATION

- The connection of optional accessories to the indoor unit might cause changes to some field settings. For more information, see the installation manual of the optional accessory.
- Following setting are only applicable when using the BRC1H52* user interface. When using any other user interface, see the installation manual or service manual of the user interface.

Setting: Airflow rate increase mode

This setting must correspond with the needs of the user. It is possible to raise set airflow (HIGH and LOW) from the field. Change the value number (—) as shown in the table below.

If you want airflow…	Then(1)		
	M	SW	—
Standard	13 (23)	0	01
A little increased			02
Increased			03

Setting: Air volume when thermostat control is OFF

This setting must correspond with the needs of the user. It determines the fan speed of the indoor unit during thermostat OFF condition.

1 If you have set the fan to operate, set the air volume speed:

If you want…		Then(1)		
		M	SW	—
During thermostat OFF at cooling operation	LL(2)	12 (22)	6	01
	Setup volume(2)			02
	OFF(a)			03
	Monitoring 1(2)			04
	Monitoring 2(2)			05
During thermostat OFF at heating operation	LL(2)	12 (22)	3	01
	Setup volume(2)			02
	OFF(a)			03
	Monitoring 1(2)			04
	Monitoring 2(2)			05

(a) Only use in combination with optional remote sensor or when setting **M** 10 (20), **SW** 2, — 03 is used.

Setting: Time to clean air filter

This setting must correspond with the air contamination in the room. It determines the interval at which **"Time to clean filter"** notification is displayed on the user interface.

If you want an interval of… (air contamination)	Then(1)		
	M	SW	—
±200 h (light)	10 (20)	0	01
±100 h (heavy)			02
Notification ON		3	01
Notification OFF			02

Setting: Thermostat sensor selection

This setting must correspond with how/if the remote controller thermostat sensor is used.

When the remote controller thermostat sensor is…	Then(1)		
	M	SW	—
Used in combination with indoor unit thermistor	10 (20)	2	01
Not used (indoor unit thermistor only)			02
Used exclusively			03

Setting: Thermostat differential changeover (if remote sensor is used)

If the system contains a remote sensor, set the increase/decrease increments.

If you want to change increments to…	Then(1)		
	M	SW	—
1°C	12 (22)	2	01
0.5°C			02

(1) Field settings are defined as follows:
- **M**: Mode number – **First number**: for group of units – **Number between brackets**: for individual unit
- **SW**: Setting number
- —: Value number
- ▒: Default

(2) Fan speed:
- **LL**: Low fan speed (set during thermostat OFF)
- **L**: Low fan speed (set by the user interface)
- **Setup volume**: The fan speed corresponds to the speed the user has set (low, medium, high) using the fan speed button on the user interface.
- **Monitoring 1, 2**: The fan is OFF, but runs for a short time every 6 minutes to detect the room temperature by **LL** (Monitoring 1) or by **L** (Monitoring 2).

Setting: Differential for automatic changeover

Set temperature difference between cooling setpoint and heating setpoint in automatic mode (availability depends on the system type). Differential is cooling setpoint minus heating setpoint.

If you want to set the temperature difference value to…	Then[1]		
	M	SW	—
0°C	12 (22)	4	01
1°C			02
2°C			03
3°C			04
4°C			05
5°C			06
6°C			07
7°C			08

Setting: Auto-restart after power failure

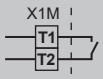
Depending on the needs of the user, you may disable/enable the automatic restart after a power failure.

If you want auto-restart after power failure…	Then[1]		
	M	SW	—
Disabled	12 (22)	5	01
Enabled			02

Setting: T1/T2 input setting

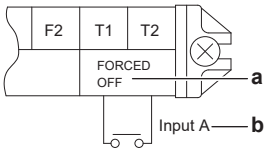
WARNING

In case of R32 refrigerant, terminal connections T1/T2 are for fire alarm input ONLY. Fire alarm has a higher priority than R32 safety and shuts the entire system down.



a Fire alarm input signal (potential free contact)

Remote control is available by transmission the external input to the terminals T1 and T2 on the terminal block for the user interface and the transmission wiring.



a Forced OFF
b Input A

Wiring requirements	
Wiring specification	Sheathed vinyl cord or 2-core cable
Wiring size	0.75~1.25 mm^2
Wiring length	Maximum 100 m
External contact specification	Contact that can make and break the min. load of DC15 V · 1 mA

This setting must correspond with the needs of the user.

If you want to change increments to…	Then[1]		
	M	SW	—
Forced OFF	12 (22)	1	01
ON/OFF Operation			02
Emergency (recommended for alarm operation)			03
Forced OFF - multi tenant			04
Interlocking setting A			05
Interlocking setting B			06

18 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).

18.1 Wiring diagram

18.1.1 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		Rectifier
	Earth		Relay connector
	Field wiring		Short-circuit connector
	Fuse		Terminal
INDOOR	Indoor unit		Terminal strip
OUTDOOR	Outdoor unit		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

[1] Field settings are defined as follows:
- **M**: Mode number – **First number**: for group of units – **Number between brackets**: for individual unit
- **SW**: Setting number
- —: Value number
- ▬: Default

Symbol	Meaning
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)
S*T	Thermostat
S*RH	Humidity sensor

Symbol	Meaning
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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