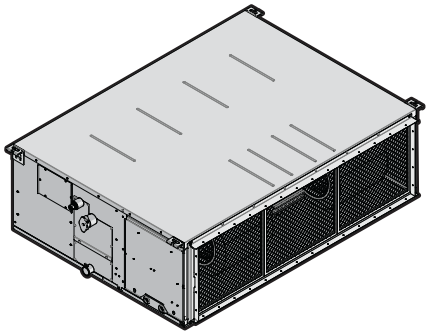
Installation and operation manual

Split system air conditioners



FDA200AXVEB
FDA250AXVEB

Installation and operation manual
Split system air conditioners

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

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

17 deklaruje na własną wyłączną odpowiedzialność, że produkty, których ta deklaracja dotyczy:
18 declară pe proprie răspundere că produsele la care se referă această declarație:
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:

FDA200AXVEB, FDA250AXVEB,

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**
Low Voltage 2014/35/EU
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>**.	**06 Nota***	come delineato in **<A>** e giudicato positivamente da **<B>** ai sensi del **Certificato <C>**.	**11 Information***	som anges i **<A>** och godkänts av **<B>** enligt **Certifikat <C>**.	**16 Megjegyzés***	a(z) **<A>** alapján, a(z) **<B>** igazolta a megfelelést, a(z) **<C>** **tanúsítvány** szerint.	**21 Забележка***	както е изложено в **<A>** и оценено положително от **<B>** съгласно **Сертификата <C>**.
02 Hinweis*	wie in **<A>** aufgeführt und von **<B>** positiv beurteilt gemäß **Zertifikat <C>**.	**07 Σημείωση***	όπως ορίζεται στο **<A>** και κρίνεται θετικά από τον **<B>** σύμφωνα με το **Πιστοποιητικό <C>**.	**12 Merk***	som det fremkommer i **<A>** og vurdert positivt av **<B>** i henhold til **Sertifikatet <C>**.	**17 Uwaga***	zgodnie z dokumentacją **<A>**, pozytywną opinią **<B>** i **Świadectwem <C>**.	**22 Pastaba***	kaip nurodyta **<A>** ir teigiamai nuspręsta pagal **<B>**, vadovaujantis **Sertifikatu <C>**.
03 Remarque*	telles que définies dans **<A>** et évaluées positivement par **<B>** conformément au **Certificat <C>**.	**08 Nota***	conforme estabelecido em **<A>** e avaliado positivamente por **<B>** de acordo com o **Certificado <C>**.	**13 Huom***	sellaisina kuin ne on esitetty asiakirjassa **<A>** ja jotka **<B>** on hyväksynyt **Sertifikaatin <C>** mukaisesti.	**18 Notă***	așa cum se prevede în **<A>** și apreciat pozitiv de **<B>** conform **Certificatului <C>**.	**23 Piezīmes***	kā norādīts **<A>** un pozitīvi novērtēts **<B>** saskaņā ar **Sertifikātu <C>**.
04 Bemerk*	zoals uiteengezet in **<A>** en positief beoordeeld door **<B>** overeenkomstig het **Certificaat <C>**.	**09 Примечание***	как указано в **<A>** и подтверждено **<B>** согласно Свидетельству **<C>**.	**14 Poznámka***	jak bylo uvedeno v **<A>** a pozitivně zjištěno **<B>** v souladu s **Osvědčením <C>**.	**19 Opomba***	Kot je določeno v **<A>** in je prejelo pozitivno oceno **<B>** v skladu s **Certifikatom <C>**.	**24 Poznámka***	ako bolo stanovené v **<A>** a kladne posúdené **<B>** podľa **Osvedčenia <C>**.
05 Nota*	tal como se establece en **<A>** y valorado positivamente por **<B>** de acuerdo con el **Certificado <C>**.	**10 Bemærk***	Som anført i **<A>** og positivt vurderet af **<B>** i henhold til **Certifikat <C>**.	**15 Napomena***	kako je izloženo u **<A>** i pozitivno ocijenjeno od **<B>** prema **Certifikatu <C>**.	**20 Märkus***	Mis on sätestatud dokumendis **<A>** ja hinnatud vastuvõetuks dokumendis **<B>**, vastavalt **Sertifikaadile <C>**.	**25 Not***	**<A>**'de belirtildiği ve **<C>** **Sertifikasına** göre **<B>** tarafından olumlu görüş bildirildiği üzere.

<A>	**DAIKIN.TCF.033A16/06-2019**
<B>	**DEKRA (NB0344)**
<C>	**2178265.0551-EMC**

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4P689940-5C

DAIKIN

Hiromitsu Iwasaki
Director
Ostend, 1st of February 2023

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 (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 + 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 and household 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.

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

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

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

Technical engineering data

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

2 Specific installer safety instructions

Always observe the following safety instructions and regulations.

General

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.

Unit installation (see "12 Unit installation" [▶ 11])

WARNING

The appliance using R32 refrigerant shall be stored so as to prevent mechanical damage and in a well-ventilated room without continuously operating ignition sources (e.g. open flames, an operating gas appliance, or an operating electric heater). The room size shall be as specified in the General safety precaution.

CAUTION

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

This unit is suitable for installation in a commercial and light industrial environment.

WARNING

For units using the R32 refrigerant it is necessary to keep any required ventilation openings clear of obstructions.

Duct installation (see "12.2.2 Guidelines when installing the ducting" [▶ 13])

WARNING

Do NOT install operating ignition sources (example: open flames, an operating gas appliance or an operating electric heater) in the ductwork.

CAUTION

- Make sure the installation of the duct does NOT exceed the setting range of the external static pressure for the unit. Refer to the technical datasheet of your model for the setting range.
- Make sure to install the canvas duct so vibrations are NOT transmitted to the duct or ceiling. Use a sound-absorbing material (insulation material) for the lining of the duct and apply vibration insulation rubber to the hanging bolts.
- When welding, make sure NOT to spatter onto the drain pan or the air filter.
- If the metal duct passes through a metal lath, wire lath or metal plate of the wooden structure, separate the duct and wall electrically.
- Install the outlet grille in a position where the airflow will not come into direct contact with people.
- Do NOT use booster fans in the duct. Use the function to adjust the fan rate setting automatically (see "16 Configuration" [▶ 17]).

Refrigerant piping installation (see "13 Piping installation" [▶ 14])

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

Piping MUST be installed according to instructions given in "13 Piping installation" [▶ 14]. 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" [▶ 15])

WARNING

ALWAYS use multicore cable for power supply cables.

WARNING

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

WARNING

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

WARNING

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

Prevent hazards due to inadvertent resetting of the thermal cut-out: power to this appliance MUST NOT be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly turned ON and OFF by the utility.

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 and non-toxic. R410A is a non-combustible refrigerant, and R32 is a mildly flammable refrigerant, but they will generate a toxic gas when they accidentally leak 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

- 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

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

For units using the R32 refrigerant it is necessary to keep any required ventilation openings clear of obstructions.

Maintenance and service (see "7 Maintenance and service" [▷ 9])

WARNING

Improper detergents or cleaning procedure may cause damage on plastic components or water leakage. Splashed detergent on electric components, such as motors, may cause failure, smoke or ignition.

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 filter and air outlet.

WARNING

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

About the refrigerant (see "7.3 About the refrigerant" [▸ 10])

WARNING: MILDLY FLAMMABLE MATERIAL

The R32 refrigerant (if applicable) in this unit is mildly flammable. Refer to the outdoor unit specifications for the type of refrigerant to be used.

WARNING

The appliance using R32 refrigerant shall be stored so as to prevent mechanical damage and in a well-ventilated room without continuously operating ignition sources (e.g. open flames, an operating gas appliance, or an operating electric heater). The room size shall be as specified in the General safety precaution.

WARNING

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

WARNING

- R410A is a non-combustible refrigerant, and R32 is a mildly flammable refrigerant; they normally do NOT leak. If the refrigerant leaks in the room and comes into contact with fire from a burner, a heater, or a cooker, this may result in a fire (in case of R32), or the formation of a harmful gas.
- Turn OFF any combustible heating devices, ventilate the room, and contact the dealer from 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.

Troubleshooting (see "8 Troubleshooting" [▸ 10])

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 and non-toxic. R410A is a non-combustible refrigerant, and R32 is a mildly flammable refrigerant, but they will generate a toxic gas when they accidentally leak 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.

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

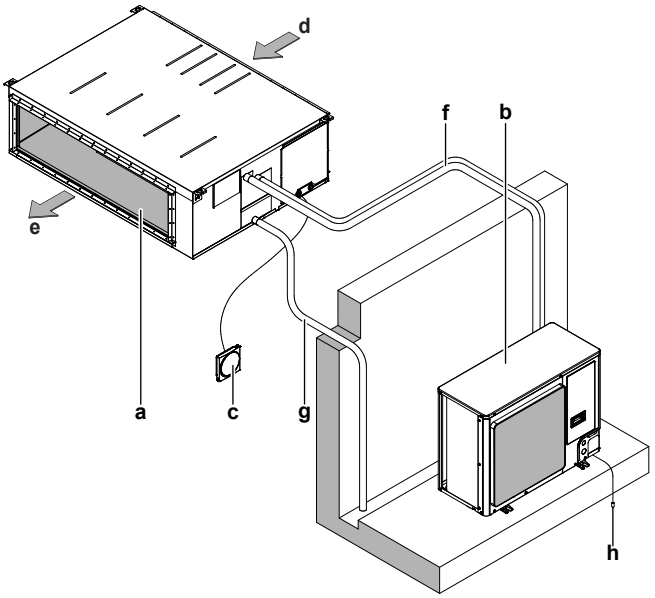
For future modifications or expansions of your system:

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 Indoor unit
b Outdoor unit
c User interface
d Suction air
e Discharge air
f Refrigerant piping + interconnection cable
g Drain pipe
h Earth 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

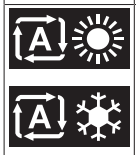
Depending on the installed system, some operation modes will not be available.

- 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.

Icon	Operation mode
	**Fan only.** In this mode, air circulates without heating or cooling.
	**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.
Hot start	During hot start, the indoor unit fan will stop operation, and the following icon will appear on the home screen: 

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" [▶ 5] to acknowledge all related safety instructions.

NOTICE

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

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

NOTICE

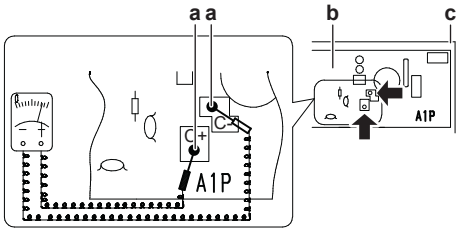
- Do NOT wipe the controller operation panel with benzine, thinner, chemical dust cloth, etc. The panel may get discoloured or the coating peeled off. If it is heavily dirty, soak a cloth in water-diluted neutral detergent, squeeze it well and wipe the panel clean. Wipe it with another dry cloth.
- Do NOT use water or air of 50°C or higher. **Possible consequence:** Discoloration and deformation.
- Do NOT use polishing compounds.
- Do NOT use a scrubbing brush. **Possible consequence:** The surface finishing peels off.
- As an end user, you may NEVER clean inside parts of the unit, inspect or service the unit by yourself; this work must be performed by a qualified service person. Contact your dealer. However, as end user, you may clean the air filter and air outlet.

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 air filter and air outlet

CAUTION

Turn off the unit before cleaning the air filter and air outlet.

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.

7.2.1 To clean the air filter

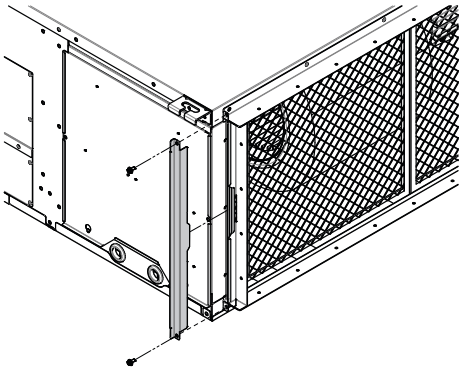
When to clean the air filter:

- 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.

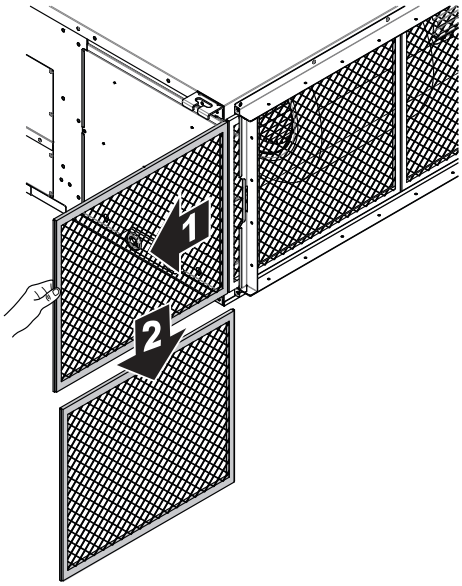
- If the dirt becomes impossible to clean, change the air filter.

How to clean the air filter:

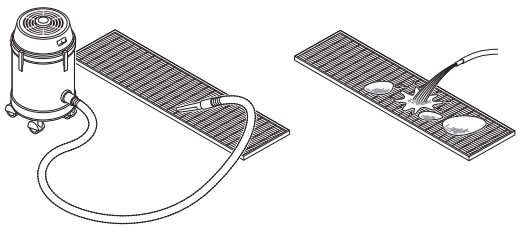
1 Remove the screws on the filter cover using screwdriver.



2 Slowly pull out the air filter (composed of 3 equal parts).



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 Re-attach the air filter. Partially re-insert the first part of the air filter, align the middle part of the air filter with first part and push the 2 clips in place to lock the filter parts together. Repeat the procedure for the last part of the filter.

6 Place the filter cover back. Fix the filter cover with screws.

7 Turn ON the power.

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

7.2.2 To clean the air outlet

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 a neutral detergent.

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

Refrigerant type: R410A

Global warming potential (GWP) value: 2087.5

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.

WARNING: MILDLY FLAMMABLE MATERIAL

The R32 refrigerant (if applicable) in this unit is mildly flammable. Refer to the outdoor unit specifications for the type of refrigerant to be used.

WARNING

The appliance using R32 refrigerant shall be stored so as to prevent mechanical damage and in a well-ventilated room without continuously operating ignition sources (e.g. open flames, an operating gas appliance, or an operating electric heater). The room size shall be as specified in the General safety precaution.

WARNING

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

WARNING

- R410A is a non-combustible refrigerant, and R32 is a mildly flammable refrigerant; they normally do NOT leak. If the refrigerant leaks in the room and comes into contact with fire from a burner, a heater, or a cooker, this may result in a fire (in case of R32), or the formation of a harmful gas.
- Turn OFF any combustible heating devices, ventilate the room, and contact the dealer from 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.

8 Troubleshooting

If one of the following malfunctions occurs, 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.

After checking all the items above, if 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.

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

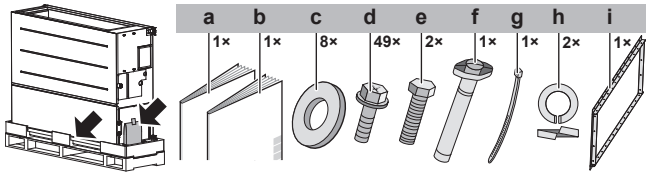
11.1 Indoor unit

WARNING: MILDLY FLAMMABLE MATERIAL

The R32 refrigerant (if applicable) in this unit is mildly flammable. Refer to the outdoor unit specifications for the type of refrigerant to be used.

11.1.1 To remove the accessories from the indoor unit

1 Remove the accessories from the side of the unit. Air outlet flange is placed under the indoor unit.



a Installation and operation manual
b General safety precautions
c Washers for hanger bracket
d Screws for duct flanges (M5×12)
e Hexagon head bolt (M10×40)
f Attached piping with sealing
g Tie wrap
h Spring washer
i Air outlet flange (under the indoor unit)

12 Unit installation

12.1 Preparing the installation site

WARNING

The appliance using R32 refrigerant shall be stored so as to prevent mechanical damage and in a well-ventilated room without continuously operating ignition sources (e.g. open flames, an operating gas appliance, or an operating electric heater). The room size shall be as specified in the General safety precaution.

12.1.1 Installation site requirements of the indoor unit

INFORMATION

The sound pressure level is less than 70 dBA.

CAUTION

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

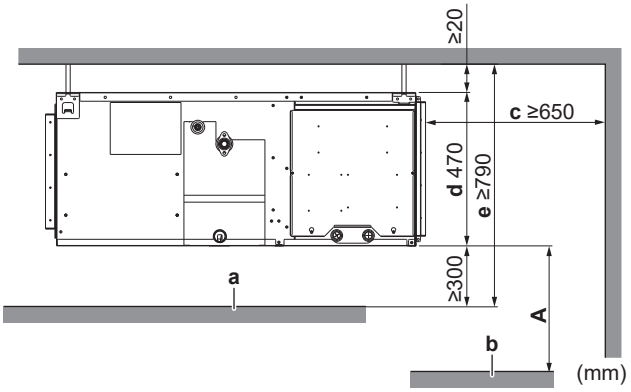
This unit is suitable for installation in a commercial, light industrial, household and residential environment.

WARNING

For units using the R32 refrigerant it is necessary to keep any required ventilation openings clear of obstructions.

- **Drainage.** Make sure condensation water can be evacuated properly.

- **Ceiling insulation**. When conditions in the ceiling exceed 30°C and a relative humidity of 80%, or when fresh air is inducted into the ceiling, then additional insulation is required (minimum 10 mm thickness, polyethylene foam).
- **Protective guards.** Make sure to install protective guards on the suction and discharge side to prevent somebody from touching the fan blades or heat exchanger.
- **Spacing**. Mind the following requirements:



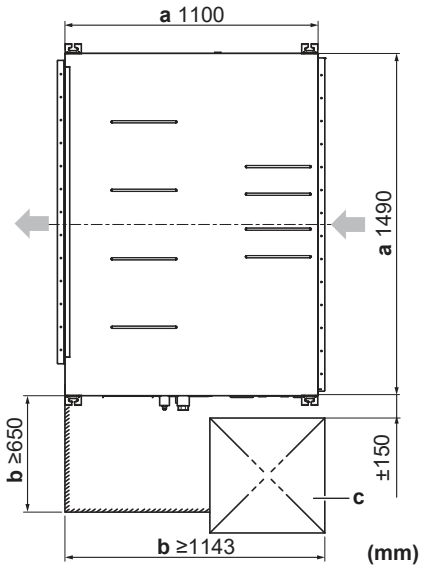
A **Minimum distance to the floor: 2.5 m** to avoid accidental touching
a Ceiling
b Floor surface
c Maintenance space
d Minimum required space of installation
e Minimum space for allowing downward slope 1/100 for drainage

- **Discharge grille.** Minimum requirement installation height of discharge grille ≥1.8 m.

Service space and ceiling opening size

Make sure ceiling opening is big enough to ensure a sufficient clearance for maintenance and service.

Top view:



a Ceiling opening
b Service space
c Inspection hatch (600×600 mm)

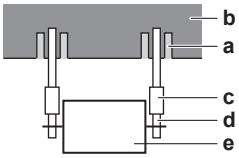
INFORMATION

Some options may require additional service space. Sees the installation manual of the used option before installation.

12.2 Mounting the indoor unit

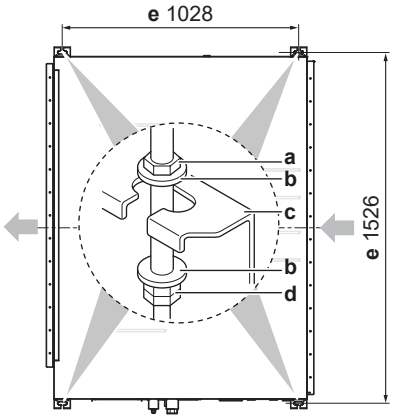
12.2.1 Guidelines when installing the indoor unit

- **Ceiling strength**. Check whether the ceiling is strong enough to support the weight of the unit. If there is a risk, reinforce the ceiling before installing the unit.
  - For existing ceilings, use anchors.
  - For new ceilings, use sunken inserts, sunken anchors or other field supplied parts.



a Anchor
b Ceiling slab
c Long nut or turnbuckle
d Suspension bolt
e Indoor unit

- **Suspension bolts.** Use M10 suspension bolts for installation. Attach the hanger bracket to the suspension bolt. Fix it securely using a nut and washer from the upper and lower sides of the hanger bracket.



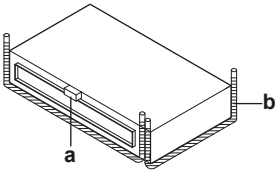
a Nut (field supply)
b Washer (accessories)
c Hanger bracket
d Double nut (field supply)
e Suspension bolt pitch

- **Install the unit temporarily.**

1 Attach the hanger bracket to the suspension bolt.

2 Fix it securely.

- **Level**. Make sure the unit is level at all four corners using a level or a water-filled vinyl tube.



a Water level
b Vinyl tube

3 Tighten the upper nut.

NOTICE

Do NOT install the unit tilted. **Possible consequence:** If the unit is tilted against the direction of the condensate flow (the drain piping side is raised), the float switch might malfunction and cause water to drip.

INFORMATION

Optional equipment. When installing optional equipment, also read the installation manual of the optional equipment. Depending on the field conditions, it might be easier to install the optional equipment first.

12.2.2 Guidelines when installing the ducting

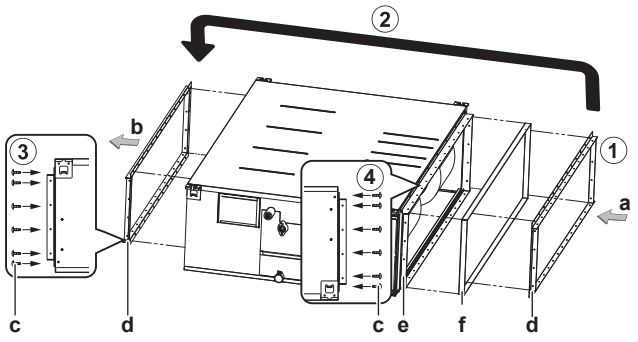
WARNING

Do NOT install operating ignition sources (example: open flames, an operating gas appliance or an operating electric heater) in the duct work.

CAUTION

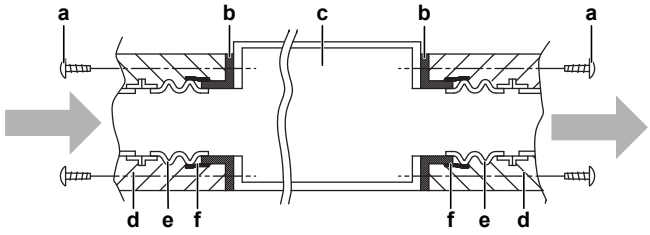
- Make sure the installation of the duct does NOT exceed the setting range of the external static pressure for the unit. Refer to the technical datasheet of your model for the setting range.
- Make sure to install the canvas duct so vibrations are NOT transmitted to the duct or ceiling. Use a sound-absorbing material (insulation material) for the lining of the duct and apply vibration insulation rubber to the hanging bolts.
- When welding, make sure NOT to spatter onto the drain pan or the air filter.
- If the metal duct passes through a metal lath, wire lath or metal plate of the wooden structure, separate the duct and wall electrically.
- Install the outlet grille in a position where the airflow will not come into direct contact with people.
- Do NOT use booster fans in the duct. Use the function to adjust the fan rate setting automatically (see "16 Configuration" [▸ 17]).

The ducting is to be field supplied.



a Air inlet
b Air outlet
c Screws for duct flanges
d Air outlet flange
e Air inlet flange
f Transportation case cover

1 Remove the air outlet flange from the transportation case cover.
2 Move and attach the air outlet flange to the air outlet side.
3 Fix the air outlet flange with the 34 screws for duct flanges (accessory).
4 Fix the air inlet flange using the remaining 15 screws for duct flanges (accessory).
5 Connect the canvas duct to the inside of the flange on both sides.
6 Connect the duct to the canvas duct on both sides.
7 Wind aluminium tape around the flanges and duct connections. Make sure there are no air leaks at any other connection.
8 Insulate the ducts to prevent condensation from forming. Use glass wool or polyethylene foam 25 mm thick.



a Screws for duct flanges (accessory)
b Flange (located on the unit)
c Main unit
d Insulation (field supply)
e Canvas duct (field supply)
f Aluminium tape (field supply)

- **Filter.** Be sure to attach an air filter inside the air passage on the air inlet side. Use an air filter with dust collecting efficiency ≥50% (gravimetric method). The included filter is not used when the intake duct is attached.

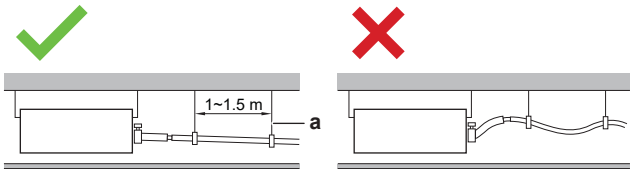
12.2.3 Guidelines when installing the drain piping

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

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

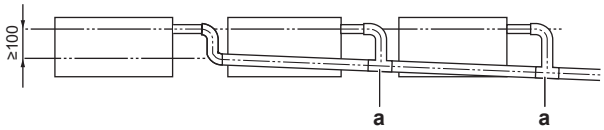
General guidelines

- **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 of 25 mm nominal diameter and 32 mm outer diameter).
- **Slope.** Make sure the drain piping slopes down (at least 1/100) to prevent air from being trapped in the piping. Use hanging bars as shown.



a Hanging bar
✓ Allowed
✗ Not allowed

- **Condensation.** Take measures against condensation. Insulate the complete drain piping in the building.
- **Combining drain pipes.** It is possible to combine drain pipes. Use drain pipes and T-joints with the correct gauge for the operating capacity of the units.

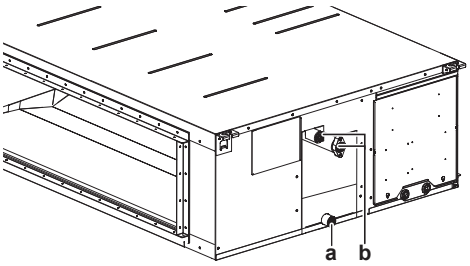


a T-joint

To connect the drain piping to the indoor unit

NOTICE

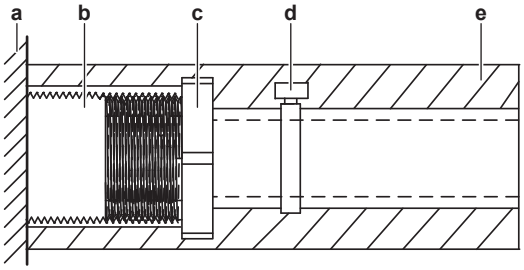
Incorrect connection of the drain hose might cause leaks, and damage the installation space and surroundings.



a Drain pipe connection
b Refrigerant pipes

Drain piping connection

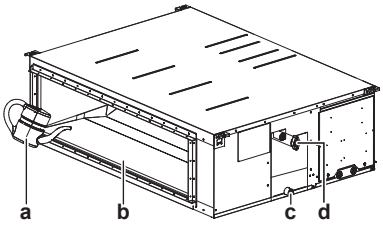
1 Pull out the drain plug.
2 Install the adapter for the drain hose (field supply).
3 Push the drain hose as far as possible over the adapter for the drain hose.
4 Tighten the metal clamp until the screw head is less than 4 mm from the metal clamp part.
5 Check for water leaks (see "To check for water leaks" [▸ 14]).
6 Install the insulation piece (drain pipe).



a Indoor unit
b BSP 1" internal thread
c Adapter (field supply)
d Metal clamp (field supply)
e Insulation material for drain pipe (field supply)

To check for water leaks

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



a Container with water
b Drain pan
c Drain outlet
d Refrigerant pipes

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" [▸ 14]. 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

Use the same diameters as the connections on the outdoor units:

	Pipe outer diameter (mm)	
Class	**Liquid pipe**	**Gas pipe**
200	Ø9.5 mm	Ø19.1 mm
250	Ø9.5 mm	Ø22.2 mm

Refrigerant piping material

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

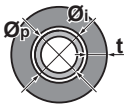
Outer diameter (Ø)	Temper grade	Thickness (t)[a]	
9.5 mm (3/8")	Annealed (O)	≥0.8 mm	
19.1 mm (3/4")			
22.2 mm (7/8")			

[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)
9.5 mm (3/8")	10~14 mm	≥13 mm
19.1 mm (3/4")	20~24 mm	
22.2 mm (7/8")	23~27 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

INFORMATION

- For **liquid piping**, use a flare connection.
- For **gas piping**, use the attached piping (accessory) and fix it with the hexagon head bolts and spring washers (accessory)

13.2.1 To connect the refrigerant piping to the indoor unit

CAUTION

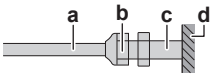
Install the refrigerant piping or components in a position where they are unlikely to be exposed to any substance which may corrode components containing refrigerant, unless the components are constructed of materials that are inherently resistant to corrosion or are suitably protected against corrosion.

WARNING: MILDLY FLAMMABLE MATERIAL

The R32 refrigerant (if applicable) in this unit is mildly flammable. Refer to the outdoor unit specifications for the type of refrigerant to be used.

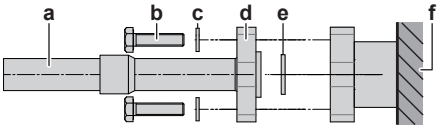
- **Pipe length**. Keep refrigerant piping as short as possible.

1 Connect the **liquid piping** to the unit using the flare connections.



a Field piping
b Flare nut (attached to the unit)
c Refrigerant pipe connection (attached to the unit)
d Indoor unit

2 Connect the **gas piping** using the attached piping (accessory). Fix it to the unit using hexagon head bolts (M10×40) (accessory) and spring washers (accessory) at 21.5~28.9 Nm torque. Place sealing (on the attached piping) between the connection. Apply refrigerating machine oil (**Example:** FW68DA, SUNISO Oil) at sealing.



a Field piping
b Hexagon head bolt (M10×40)
c Spring washer (accessory)
d Attached piping
e Sealing (on the attached piping)
f Indoor unit

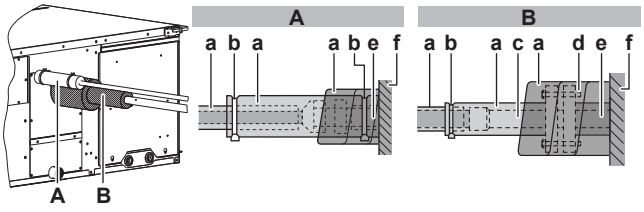
NOTICE

- Join the attached piping (accessory) and the field refrigerant piping (field supply) by brazing before fixing the attached piping to the unit.
- Do NOT braze the refrigerant piping directly to the indoor unit.

CAUTION

Do NOT reuse sealing (on the attached piping). Always use new sealing to prevent refrigerant gas leaks.

3 Insulate the refrigerant piping on the indoor unit as follows:



A Liquid piping
B Gas piping

a Insulation material (field supply)
b Cable tie (field supply)
c Attached piping (accessory)
d Hexagon head bolt and spring washer (accessory)
e Refrigerant pipe connection (attached to the unit)
f Unit

NOTICE

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

14 Electrical installation

DANGER: RISK OF ELECTROCUTION

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

Prevent hazards due to inadvertent resetting of the thermal cut-out: power to this appliance MUST NOT be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly turned ON and OFF by the utility.

14.1 Specifications of standard wiring components

NOTICE

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

Power supply	
Voltage	220~240 V/220 V
Frequency	50/60 Hz
Phase	1~
MCA [(a)]	FDA200: 4 A FDA250: 4.3 A

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

Components	
Power supply cable	MUST comply with national wiring regulation. 3-core cable Wire size based on the current, but not less than 1.5 mm^2
Interconnection cable (indoor↔outdoor)	Only use harmonised wire providing double insulation and suitable for applicable voltage 4-core cable Minimum size 1.5 mm^2

Components	
User interface cable	Only use harmonised wire providing double insulation and suitable for applicable voltage 2-core cable Minimum size 0.75 mm^2 Maximum length 500 m
Recommended circuit breaker	6 A
Residual current device	MUST comply with national wiring regulation

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 interconnection 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

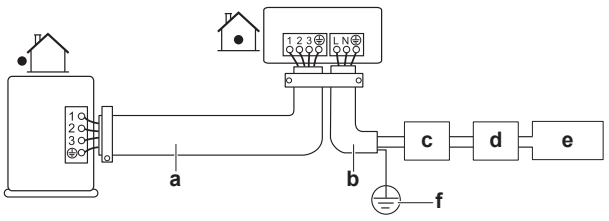
Be sure to keep the power line and interconnection line apart from each other. Interconnection wiring and power supply wiring may cross, but may NOT run parallel.

1 Remove the service cover.

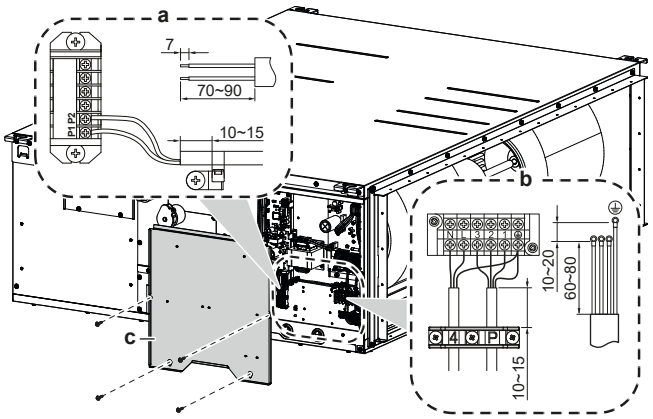
2 **User interface cable**: Route the cable through the opening for the cable and connect the cable to the terminal block (symbols P1, P2). Fix the cable with a tie wrap on the wiring fixture.

3 **Interconnection cable** (indoor↔outdoor): Route the cable through the opening for the cable. Connect it to the terminal block (make sure the numbers 1~3 match with the numbers on the outdoor unit), and connect the earth wiring.

4 **Power supply cable:** Route the cable through the opening and connect the cable to the terminal block (L, N, earth). The unit MUST be connected to a separate power supply in addition to the interconnection cable to ensure correct function. When servicing the unit interrupt all power supply.

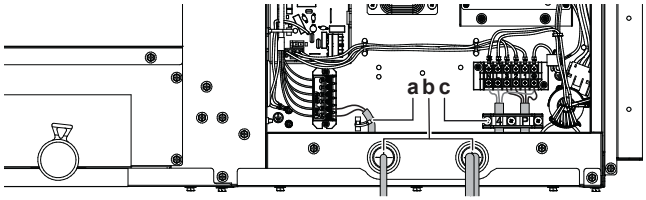


a Interconnection cable
b Power supply cable
c Circuit breaker
d Residual current device
e Power supply
f Earth



a User interface cable
b Power supply and interconnection cable
c Service cover with wiring diagram

5 **Cable clamp** (for power supply and interconnection cable): Fix the cables with the cable clamp.



a Wiring fixture
b Opening for cables
c Cable clamp

6 Wrap the sealing (field supply) around the cables to prevent water from entering the unit. Seal all gaps to prevent small animals from entering the system.

WARNING

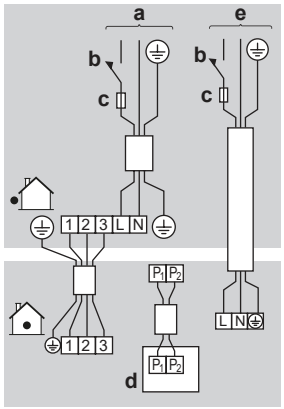
Provide adequate measures to prevent that the unit can be used as a shelter by small animals. Small animals that make contact with electrical parts can cause malfunctions, smoke or fire.

7 Reattach the service cover.

Complete system wiring example

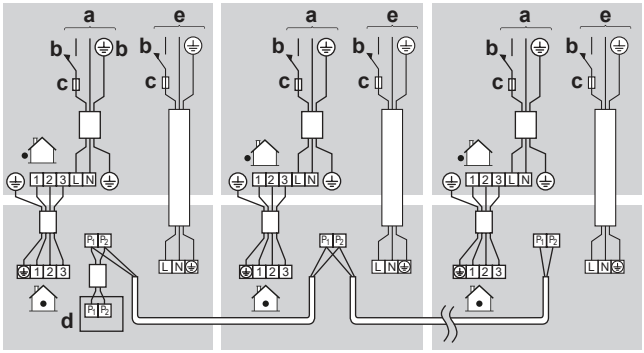
For the wiring of outdoor units, refer to the installation manual attached to the outdoor units.

Pair type: 1 remote controller controls 1 indoor unit (standard)



a Power supply
b Main switch
c Residual current device
d User interface
e Separate power supply

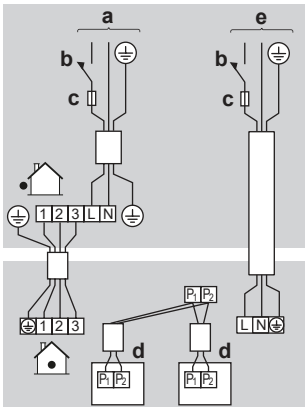
Group control: 1 user interface controls up to 4 pair systems (all indoor units operate according to the user interface)



a Power supply
b Main switch
c Residual current device
d User interface
e Separate power supply

- All indoor units operate according to the user interface
- The thermistor reading of room temperature is effective only for the indoor unit connected to the user interface.

Control with 2 user interfaces: 2 user interfaces control 1 indoor unit



a Power supply
b Main switch
c Residual current device
d User interface
e Separate power supply

INFORMATION

In case of group control, it is not necessary to assign a group address to the indoor unit. The group address is automatically set when the power is turned on.

15 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.

15.1 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**.
☐	The **indoor unit** is properly mounted.
☐	The **outdoor unit** is properly mounted.
☐	The **drain piping** is properly installed and insulated, and drainage flows smoothly. Check for water leaks. **Possible consequence:** condensate water might drip.
☐	The **ducting** is properly installed and insulated.
☐	The **refrigerant pipes** (gas and liquid) are installed correctly and thermally insulated.
☐	There are NO **refrigerant leaks**.
☐	There are NO **missing phases** or **reversed phases**.
☐	The system is properly **earthed** and the earth terminals are tightened.
☐	The **fuses** or locally installed protection devices are installed according to this document, and have NOT been bypassed.
☐	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.
☐	The **stop valves** (gas and liquid) on the outdoor unit are fully open.

15.2 To perform a test run

INFORMATION

- Perform the test run according to the instructions in the connected user interface manual.
- The test run is only completed if there is no malfunction code displayed on the user interface.
- 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.

16 Configuration

16.1 Field setting

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

- External static pressure setting using:
  - Airflow automatic adjustment setting
  - User interface

- Time to clean air filter

Setting: External static pressure

INFORMATION

- The fan speed of the indoor unit is preset to ensure the standard external static pressure.
- To set a higher or lower external static pressure, reset the initial setting with the user interface.

Settings for external static pressure can be achieved in 2 ways:

- Using the airflow automatic adjustment function
- Using the user interface

To set external static pressure by airflow automatic adjustment function

NOTICE

- Do NOT adjust the dampers during the fan only operation for airflow automatic adjustment.
- For the external static pressure higher than 100 Pa, do NOT use airflow automatic adjustment function.
- If the ventilation paths have been changed, perform the airflow automatic adjustment again.

- Test run MUST be done with a dry coil, run the unit for 2 hours with fan only to dry the coil.
- Check if the power supply wiring, duct, air filter are properly attached. If the closing damper is installed in the unit, make sure it is open.
- If there is more than one air inlet and outlet, adjust the dampers so that the airflow rate of each air inlet and outlet is conform with the designed airflow rate.

1 Operate the unit in **fan only mode** prior to using the airflow automatic adjustment function.

2 **Stop** the air conditioning unit.

3 **Set the value** number "—" to 03 for **M** 11(21) and **SW** 7.

4 **Start** the air conditioning unit.

Result: The operation lamp lights up and the unit starts the fan operation for airflow automatic adjustment.

5 After airflow automatic adjustment is finished (air conditioning unit will stop) check if the value number "—" is set to 02. If there is no change, perform the setting again.

Setting content:	Then[1]		
	M	SW	—
Airflow adjustment is OFF	11(21)	7	01
Completion of automatic airflow adjustment			02
Start of automatic airflow adjustment			03

To set external static pressure by the user interface

Check the indoor unit setting: the value number "—" must be set to 01 for **M** 11(21) and **SW** 7.

1 Change the value number "—" according to the external static pressure of the duct to be connected as in table below.

Setting[1]			External static pressure
M	SW	—	
13(23)	6	01	62
		02	70
		03	80
		04	90
		05	100
		06	115
		07	130
		08	145
		09	160
		10	175
		11	190
		12	205
		13	220
		14	235
		15	250

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	—
±2500 h (light)	10 (20)	0	01
±1250 h (heavy)			02
Notification ON		3	01
Notification OFF			02

- **2 user interfaces:** When using 2 user interfaces, one must be set to "MAIN" and the other to "SUB".

17 Technical data

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

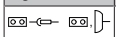
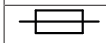
17.1 Wiring diagram

17.1.1 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
			Noiseless earth
			Protective earth (screw)
	Connection		Rectifier

[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	Symbol	Meaning
	Connector		Relay connector
	Earth		Short-circuit connector
	Field wiring		Terminal
	Fuse		Terminal strip
	Indoor unit		Wire clamp
	Outdoor unit		Heater
	Residual current device		

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

Symbol	Meaning
A*P	Printed circuit board
BS*	Pushbutton ON/OFF, operation switch
BZ, H*O	Buzzer
C*	Capacitor
AC*, CN*, E*, HA*, HE*, HL*, HN*, HR*, MR*_A, MR*_B, S*, U, V, W, X*A, K*R_*, NE	Connection, connector
D*, V*D	Diode
DB*	Diode bridge
DS*	DIP switch
E*H	Heater
FU*, F*U, (for characteristics, refer to PCB inside your unit)	Fuse
FG*	Connector (frame ground)
H*	Harness
H*P, LED*, V*L	Pilot lamp, light emitting diode
HAP	Light emitting diode (service monitor green)
HIGH VOLTAGE	High voltage
IES	Intelligent eye sensor
IPM*	Intelligent power module
K*R, KCR, KFR, KHuR, K*M	Magnetic relay
L	Live
L*	Coil
L*R	Reactor
M*	Stepper motor
M*C	Compressor motor
M*F	Fan motor
M*P	Drain pump motor
M*S	Swing motor
MR*, MRCW*, MRM*, MRN*	Magnetic relay
N	Neutral
n=*, N=*	Number of passes through ferrite core
PAM	Pulse-amplitude modulation
PCB*	Printed circuit board

Symbol	Meaning
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
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

EAC

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