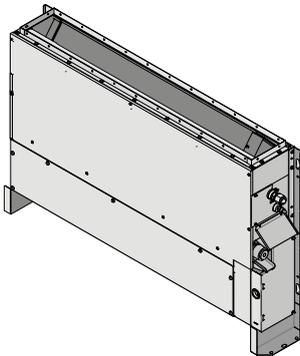




Installation and operation manual



VRV system air conditioner



FXNA20A2VEB
FXNA25A2VEB
FXNA32A2VEB
FXNA40A2VEB
FXNA50A2VEB
FXNA63A2VEB

Installation and operation manual
VRV system air conditioner

English

EU – Svéty deklarácia o conformite s bezpečnosťou
 EU – Sicherheits-Konformitätserklärung
 UE – Déclaration de conformité de sécurité
 EU – Conformitate declarare privind siguranța

EU – Varnostna izjava o skladnosti
 EU – Ohuusa vastavaldatuse deklaratsioon
 EC – Декларация о соответствии с безопасностью
 EC – Декларация о соответствии с безопасностью

EU – Izjava o skladnosti za sigurnost
 EU – Bıçınası meğlefeleşigi niyatkıçısı
 UE – Déclaration d'aprobación z výstupní bezpečnost
 UE – Declaratie de conformitate de siguranță

EU – Smsverserklaring for sikkerhed
 EU – Turvallisuuden vaatimustarkastusasiakirja
 EU – Върностност прокламација о сигурност
 UE – Declaratie de conformitate de siguranță

EC – Зверленне о соответствии с безопасностью
 EU – Sikkerheds-overensstemmelseserklaring
 EU – Konformitetsdeklaration för säkerhet

UE – Declaración de conformidad sobre seguridad
 UE – Dichiarazione di conformità in materia di sicurezza
 EE – Alkoioluppuohjeistus ja turvallisuusilmoitus
 UE – Declarație de conformitate relativă la siguranță

Daikin Industries Czech Republic s.r.o.

01 000 declares under its sole responsibility that the products to which this declaration relates:
 02 000 erklärt in alleiniger Verantwortung, dass diese gemäß unserer Instruktionen verwendet werden:
 03 000 dichiara sotto la sua esclusiva responsabilità che i prodotti visati per la presente dichiarazione:
 04 000 verklaart hierbij op eigen verantwoordelijkheid dat de producten waarop deze verklaring betrekking heeft:
 05 000 déclare sous sa seule responsabilité que les produits à qui ée réfèrent cette déclaration:
 06 000 dichiara sotto la propria responsabilità che i prodotti a cui è riferita questa dichiarazione:
 07 000 δηλώνει βίαια τη αποκλειστική της ευθύνη ότι τα προϊόντα στα οποία αναφέρεται η παρούσα δήλωση:
 08 000 declara sub sua exclusiva responsabilitate que os produtos a que esta declaración se refiere:

FXNA20A2VEB, FXNA25A2VEB, FXNA32A2VEB, FXNA40A2VEB, FXNA50A2VEB, FXNA63A2VEB,

01 are in conformity with the following directives (s) or regulation(s), provided that the products are used in accordance with our instructions:
 02 folgende Richtlinien oder Vorschriften entsprechen, vorausgesetzt, dass diese gemäß unseren Instruktionen verwendet werden:
 03 sont conformes à laux directives (s) ou règlement(s) suivants, 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 las siguientes directivas (s) o reglamentos (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(σ) οδηγία(σ) ή κανονισμό(σ), 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:

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

01 000 following the provisions of:
 02 gemäß der Bestimmungen in:
 03 conformément aux dispositions de:
 04 volgens de bepalingen van:
 05 segundo las disposiciones de:
 06 secondo le disposizioni di:
 07 σύμφωνα με τις διατάξεις των:
 08 segundo as disposições de:
 09 в соответствии с положениями:
 10 undei legăturașe af:
 11 enligt bestämmelserna för:
 12 i henhold til bestemmelserne i:
 13 noudattien sääntöissä:
 14 za dodizen ustanoveni:
 15 prema odredbama:
 16 követi alzi:
 17 zgodnie z postanowieniami:
 18 umårdnede bestemmelser:
 19 undei legăturașe af:
 20 vstavajúcich nariadení:
 21 v ovakvih odredbama:
 22 vstavajúcich si dokumentov nariadení:
 23 abintsoi šláu standardu prashlám:
 24 nasledovnyim ustanoveniyam:
 25 su standardiam hukumatine:

01 Not* as set out in <A> and / or judged positively by
 according to the Certificate <C>
 02 Hinweis* wie in <A> aufgeführt und von positiv beurteilt gemäß Zertifikat <C>
 03 Remarque* telles que définies dans <A> et évaluées positivement par conformément au Certificat <C>
 04 Bemerk* zoals uiteengezet in <A> en positief beoordeeld door overeenkomstig het Certificaat <C>
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01** DfCz*** is authorised to compile the Technical Construction File.
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17 000 deklaruje na vlastnu výhradní odpovědnost, že produkty, kterých se tato deklarace týká:
 18 000 déclare par propre responsabilité că produsele la care se referă această declarație:
 19 000 z svoj odgovornosti izjavlja, da so izdelki, na katere se izjava nanaša:
 20 000 knítá ob oma vastutuse, et tooted, mille kohta käesolev deklaratsioon kehtib:
 21 000 deklaara na seua ottevastuost, ve produktivie, za koro se omaco taku deklaarašioe:
 22 000 savo ääsiõnne atsakomybę pareškia, kad gaminiai, kuriems ši deklaracija taikoma:
 23 000 ar plinu, abihlurü abieclia, ka cistatidamini, uz kuru attiecas šī deklarācija:
 24 000 vñbaeje na vlastnu zodpovednost, že výrobky, na kore sa vzťahuje toto vyhlásenie:
 25 000 êk soomulidulu vendusele at omak izere, ba tejamani idigi odigü jolimein.

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 25 000 êk soomulidulu vendusele at omak izere, ba tejamani idigi odigü jolimein.

17 sprehišni odgovorjati odgovornost, za proizvody, za koje se ovako izjavljaju:
 18 surin conformitate cu următoarele directive sau regulamente, cu condiția ca produsele să fie utilizate în conformitate cu instrucțiunile noastre:
 19 v skladu z našeljno direktivami ali predpisi (i) pod pogojem, da se izdelki uporabljajo v skladu z našimi navodili:
 20 vastavaldatuse (järgmise) direktiivide (i) või määruse (järgmise) nõuetele, tingimusel, et need kasutatakse vastavalt meie juhile:
 21 ca în conformitate cu cerințele directivei (i) sau a regulamentului (i) în condițiile în care produsele sunt utilizate în conformitate cu instrucțiunile noastre:
 22 atitki šládu direktívám vai regulám, ja vien šie izstrādájumi tiek lietoti saskaņá ar mūsu instrukcijám:
 23 su v z hode s nasledujúcimi (mi) smernici (ami) alebo predpismi (mi) za predpokladu, že sa výrobky používajú v zhode s našimi pokynmi:
 24 lainmalaimiz dogutiusunáda, kul ainimasi kosuliyala asgijúeki direktiiviere veľa yoneimele/yoneimeklere igunm odigümu beyan eder:
 25 kooš muudatusega,

14 in plattformen,
 15 jako je zmíněno v amandamentu,
 16 és módosítási rendelkezés,
 17 z późniejszych zmianami,
 18 ar grozjuimem,
 19 cu amendamentele respective,
 20 v poslednom platnom vydaní,
 21 dešifrirājigi šķēļi,

01 as amended,
 02 in der jeweils gültigen Fassung,
 03 teles que modifées,
 04 zoals gewijzigd,
 05 en su forma emendada,
 06 e successive modifce,
 07 õtuki, prototaprepi,

EN 60335-2-40,

18 Megjegyzás* a(z) <A> alapján, a(z) igazolta a megfigyelést, 21 Zabeleška* a(z) <A> temeljen na izjavah, ki jo potrdi pozitivno oceno 24 Poznamka* a(z) <A> temeljen na izjavah, ki jo potrdi pozitivno oceno
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U Nové Hospody 1155/1, 301 00 Píseň Skvrňany, Czech Republic

Minoru Shoji
 Managing Director
 Píseň, 2nd of December 2024

DAIKIN

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1 About the documentation

1.1 About this document



WARNING

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

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.

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

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" ▶ 13)

For additional installation site requirements, read also "2.1 Instructions for equipment using R32 refrigerant" ▶ 5.



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.

Duct installation (see "12.2.2 Guidelines when installing the ducting" ▶ 16)



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" ▶ 20).

Refrigerant piping installation (see "13 Piping installation" ▶ 17)



CAUTION

Piping MUST be installed according to instructions given in "13 Piping installation" ▶ 17. Only mechanical joints (e.g. braze+flare connections) that are compliant with the latest version of ISO14903 can be used.



CAUTION

- When **mechanical** connectors are re-used indoors, renew the sealing parts.
- When **flared joints** are re-used indoors, re-make the flared part.



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" ▶ 18)



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

If NOT factory installed, a main switch or other means for disconnection, having a contact separation in all poles providing full disconnection under overvoltage category III condition, MUST be installed in the fixed wiring.



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 "[16 Configuration](#)" [p 20])



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



A2L

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 (for example national gas regulation) and are executed ONLY by authorised persons.



WARNING

- 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 space for 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.



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.



CAUTION

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



NOTICE

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



CAUTION

Field-made refrigerant joints indoors shall be tightness tested. The test method shall have a sensitivity of 5 grams per year of refrigerant or better under a pressure of at least 0,25 times the maximum allowable pressure. No leak shall be detected.

3 User safety instructions

2.1.1 Installation space requirements



CAUTION

The total refrigerant charge and/or releasable charge m_{fl} 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, go to <https://www.daikin.eu> and search for the latest version of the installation and operation manual of the connected outdoor unit.



NOTICE

- The pipework shall be securely mounted and guarded protected 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 a leak detection system for safety. To be effective, the unit must be electrically powered at all times after installation, other than when servicing.

 **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**

Keep any required ventilation openings clear of obstructions.

 **WARNING**

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

 **WARNING**

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

Maintenance and service (see "[7 Maintenance and service](#)" [p. 10])

 **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.

3 User safety instructions

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](#)" [p 11])

^{A2L} **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 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

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.

CAUTION

When replacing the R32 refrigerant leakage sensor, replace it with the sensor specified by the manufacturer (refer to the spare parts list).

Troubleshooting (see "8 Troubleshooting" ▶ 12)

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

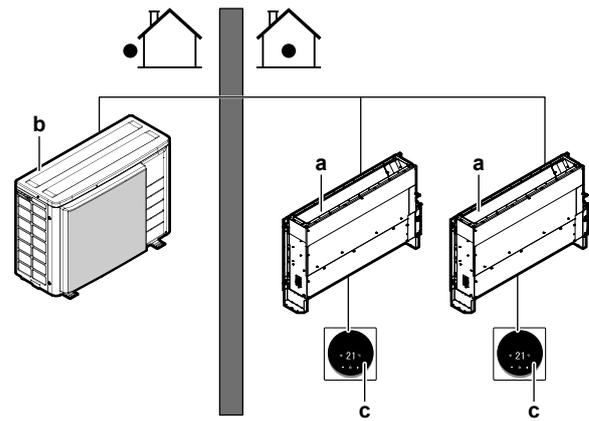
For future modifications or expansions of your system:

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 Indoor unit
- b Outdoor unit
- c User interface

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.

7 Maintenance and service

- 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.
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" [▶ 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 filter and air outlet.



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 benzene, 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

When cleaning the heat exchanger, make sure to remove the electronic components above it. Water or detergent might deteriorate the insulation of electronic components and result in burnout of these components.

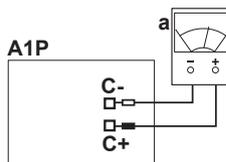
Following symbols may occur on the indoor unit:

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.



- A1P Main printed circuit board
- a Multimeter
- C Residual voltage measuring points

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:

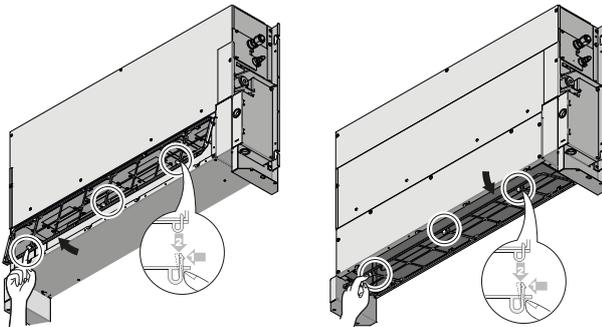
- Rule of thumb: Clean every 6 months. If the air in the room is extremely contaminated, increase the cleaning frequency.
- Depending on the settings, the user interface can display the "Time to clean filter" notification. Clean the air filter when the notification is displayed.
- If the dirt becomes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

How to clean the air filter:

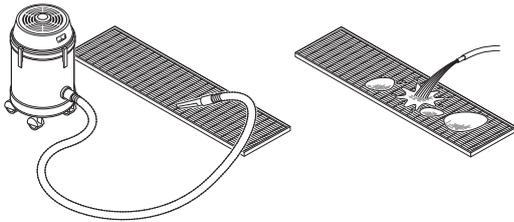
- Turn OFF the power.
- Remove the air filter.** Push the hooks and pull the filter as shown in the illustration below. (2 hooks for 20, 25 and 32 class or 3 hooks for 40, 50 and 63 class)

front suction

bottom suction



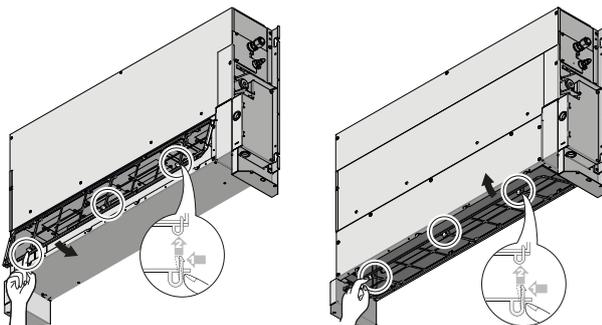
- Clean the air filter.** Use a vacuum cleaner or wash with water. If the air filter is very dirty, use a soft brush and neutral detergent.



- Dry the air filter in the shadow.**
- Reattach the air filter.** Hook the filter behind the flap and attach the filter to the main unit while pushing down the hooks.

front suction

bottom suction



- Turn ON the power.

- 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

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



A2L WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.



WARNING

- The refrigerant inside the unit is mildly flammable, but normally does NOT leak. If the refrigerant leaks in the room and comes in contact with fire from a burner, a heater, or a cooker, this may result in fire, or the formation of a harmful gas.
- Turn OFF any combustible heating devices, ventilate the room, and contact the dealer where you purchased the unit.
- Do NOT use the unit until a service person confirms that the part from which the refrigerant leaked has been repaired.



WARNING

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



WARNING

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



NOTICE

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

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

Contact your installer for more information.

8 Troubleshooting

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.

CAUTION

When replacing the R32 refrigerant leakage sensor, replace it with the sensor specified by the manufacturer (refer to the spare parts list).

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 m³/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 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

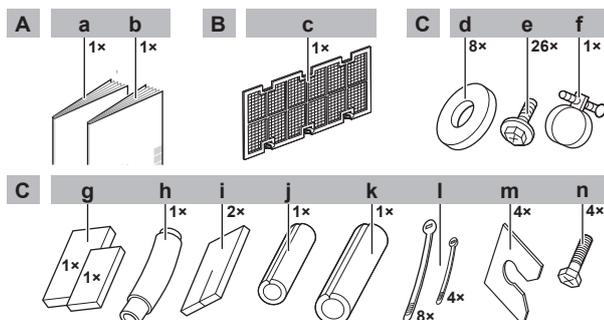
Do NOT try to dismantle the system yourself: dismantling of the system, treatment of the refrigerant, oil and other parts MUST comply with applicable legislation. Units MUST be treated at a specialised treatment facility for reuse, recycling and recovery.

For the installer

11 About the box

11.1 Indoor unit

11.1.1 To remove the accessories from the indoor unit



- A On the unit**
- a Installation and operation manual
 - b General safety precautions
- B On the bottom of the packing box**
- c Air filter
- C Next to unit (on the fan motor side)**
- d Washers for hanger bracket
 - e Screws for duct flanges (M5×12)
 - f Metal clamp
 - g Sealing pads: small and large
 - h Drain hose
 - i Sealing material
 - j Insulation piece: Small (liquid pipe)
 - k Insulation piece: Large (gas pipe)
 - l Tie wraps large and small
 - m Washer fixing plate
 - n Levelling screws (M6×25)

12 Unit installation

12.1 Preparing the installation site



WARNING

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

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

12.1.1 Installation site requirements of the indoor unit

Minimum floor area requirements



CAUTION

The total refrigerant charge and/or releasable charge m_{ri} 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, go to <https://www.daikin.eu> and search for the latest version of the installation and operation manual of the connected 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.

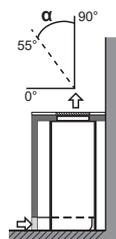


INFORMATION

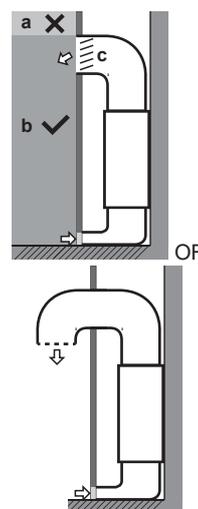
Some options may require additional service space. See the installation manual of the used option before installation.

- **Drainage.** Make sure condensation water can be evacuated properly.
- **Protective guards.** Install protective guards such as the inlet/outlet grille (field supply) on the suction and discharge side to prevent somebody from touching the fan blades or heat exchanger.

Unit installed without the duct Angle of airflow α MUST be in range from 55° to 90°.



Unit installed with the duct (side view)

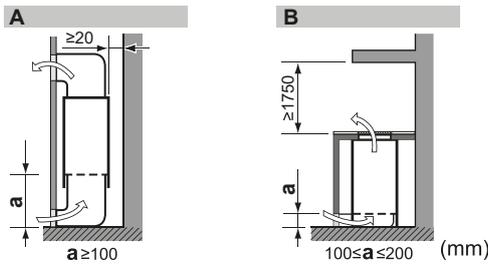


Ensure the discharge grille/duct airflow is blowing in a horizontal or downward direction (airflow direction MUST be within the "allowed area" **b**). Install appropriate measures (e.g. discharge blades **c**) that will ensure the allowed direction of airflow.

- a Restricted area for airflow direction
- b Allowed area for airflow direction
- c Discharge blades (field supply)

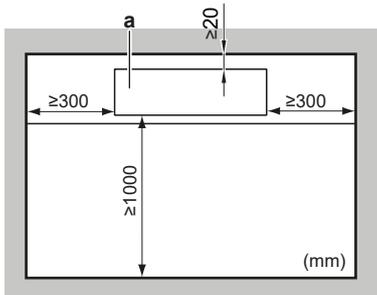
- Use **suspension bolts** for installation.
- Mind the following requirements:

12 Unit installation



- A Wall-mounted type
- B Floor-standing type
- a Minimum clearance

Top view:



- a Indoor unit

- Install the unit with a prebuilt fully enclosed casing with removable access panel, suction air grille and discharge grille. These removable parts shall prevent access to the unit and can ONLY be removed using a removal tool.
- In case of installation under a window sill, make sure that there is no short-circuit of air.

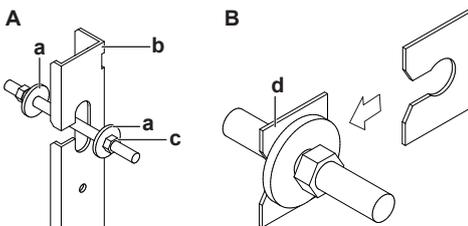
12.2 Mounting the indoor unit

12.2.1 Guidelines when installing the indoor unit

i INFORMATION

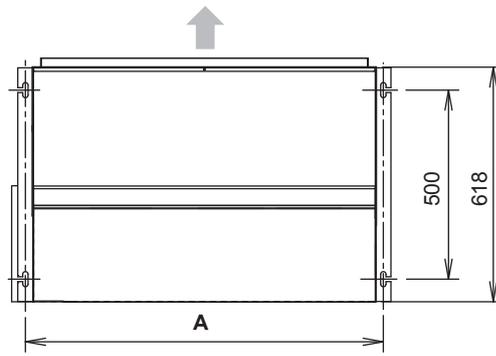
Optional equipment. When installing optional equipment, also read the installation manual of the optional equipment. Depending on the field conditions, it might be easier to install the optional equipment first.

- **External static pressure.** Refer to technical documentation to ensure that the unit's external static pressure is not exceeded.
- **Wall or floor strength.** Check whether the wall or the floor is strong enough to support the weight of the unit. If there is a risk, reinforce the wall or the floor before installing the unit.
- **Suspension bolts.** Use W3/8 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 Securing the hanger bracket
- B Securing the washers
- a Washer (accessory)
- b Hanger bracket
- c1 Nut (field supply)
- c2 Double nut (field supply)
- d Washer fixing plate (accessory)

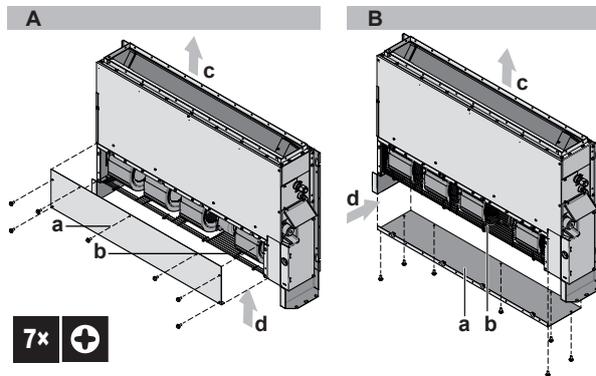
- **Suspension bolt pitch for fastening to the wall:**



Class	A (mm)
20, 25, 32	740
40, 50	940
63	1140

• Changeover of suction cover and air filter (accessory)

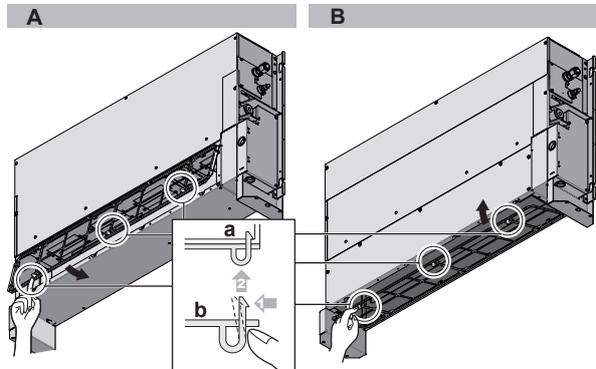
- 1 In case of front suction, remove the protective grille and the suction cover from the front side.



7x

- A Removing the suction cover
- B Reattaching the suction cover
- a Suction cover
- b Protective grille
- c Air inlet
- d Air outlet

- 2 Remove one leg on the opposite side of the electronic component box.
- 3 Reattach the removed suction cover to the bottom side.
- 4 Attach the protective grille to the front side.
- 5 Reattach the leg if necessary.
- 6 Attach the air filter (accessory) by pushing down the hooks (2 hooks for 20, 25, 32 class, 3 hooks for 40, 50, 63 class).

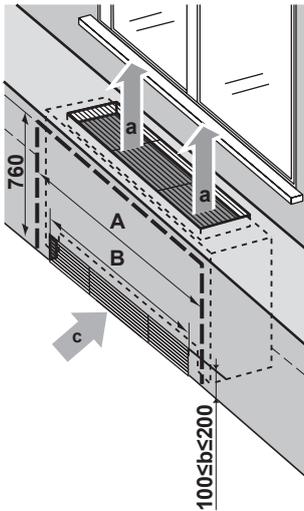


- A Front suction
- B Bottom suction
- a Main unit
- b Filter

Installation options

For this unit, there are 2 options for the installation: floor-standing and wall-mounted.

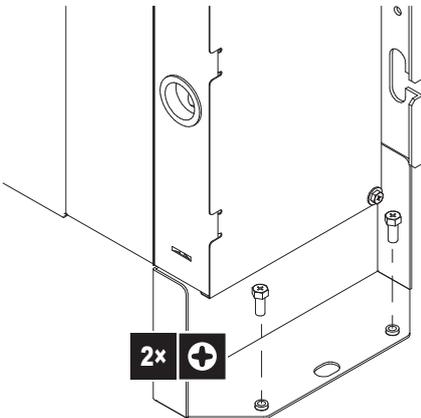
Floor-standing installation



- A Maintenance area width
- B Air inlet grille width
- a Air outlet direction
- b Air inlet grille height
- c Air inlet direction

Class	A (mm)	B (mm)
20, 25, 32	1350	660
40, 50	1550	860
63	1750	1060

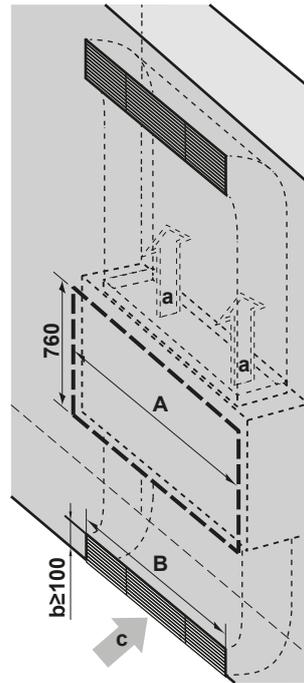
- **Fixing the unit.** Level the unit with the levelling screws (accessory). If the floor is too uneven to level the unit, place the unit on a flat and levelled base. If the unit is in danger of falling over, fasten it to the wall using factory-made holes or to the floor using floor fasteners (field supply).



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.

Wall-mounted installation

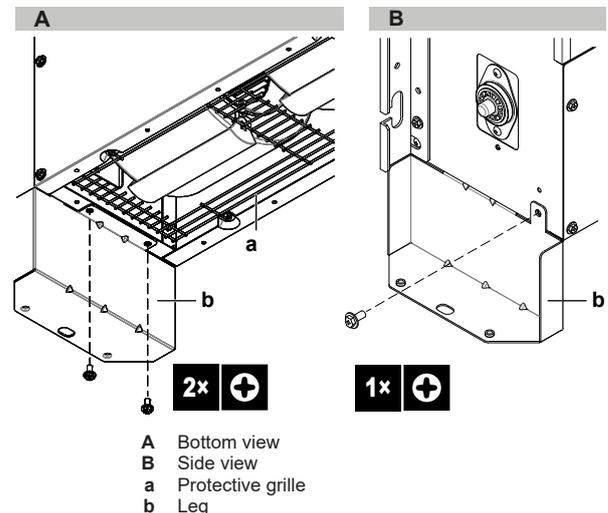


- A Maintenance area width
- B Air inlet grille width
- a Air outlet direction
- b Air inlet grille height
- c Air inlet direction

Class	A (mm)	B (mm)
20, 25, 32	1350	660
40, 50	1550	860
63	1750	1060

Removing the legs

If it is necessary to remove the legs, follow these instructions:



- A Bottom view
- B Side view
- a Protective grille
- b Leg

- 1 In case of bottom suction, remove the air filter.
- 2 Remove 4 screws (2 on each side) that hold both legs on the bottom side of the unit.
- 3 Remove 2 screws (1 on each side) on the side of the unit.
- 4 In case of bottom suction, reattach the filter.
- 5 In case of front suction, reinstall 2 screws on the side of the unit.

Install the unit temporarily

- 1 Attach the hanger bracket to the suspension bolt.

12 Unit installation

- 2 Fix the unit securely.
- 3 Adjust the unit to fit between the walls.
- 4 Make sure the unit is level at all four corners using a level or a water-filled vinyl tube.
- 5 Tighten the upper nut.

NOTICE

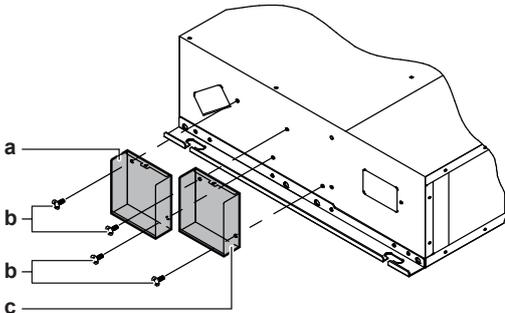
Do NOT install the unit tilted. **Possible consequence:** If the unit is tilted against the direction of the condensate flow (the drain piping side is raised), the float switch might malfunction and cause water to drip.

To install the Installation box for optional output PCB

Read also the installation manual of the Installation box for optional output PCB and the installation manual of the adapter besides this chapter, before installation and follow the instructions.

Attaching the installation box's lid

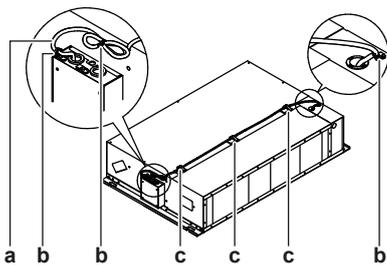
- 1 Insert 2 spacers into the holes in the thermal insulation material affixed to the installation box lid.
- 2 Fix the installation box lid with inserted spacers on the indoor unit using 2 screws (accessory of the installation box).
- 3 If installing 2 adapter PCBs, install the second installation box.



- a Installation box lid for second PCB
- b 2 screws (M4×16)
- c Installation box lid for first PCB

Wiring installation for Installation box for optional PCB

- 1 Clamp wires by using the cord sticker (accessory of the installation box) and the clamp (accessory of the installation box).



- a Low current wiring
- b Clamp
- c Cord sticker

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 ductwork.

CAUTION

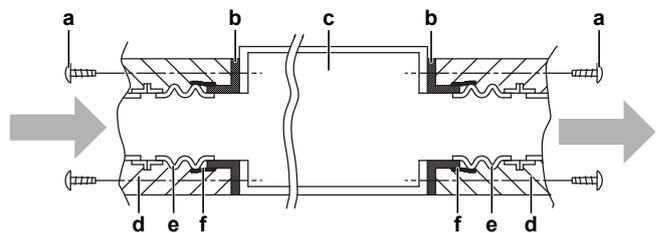
- Make sure the installation of the duct does NOT exceed the setting range of the external static pressure for the unit. Refer to the technical datasheet of your model for the setting range.
- Make sure to install the canvas duct so vibrations are NOT transmitted to the duct or ceiling. Use a sound-absorbing 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" [p 20]).

The ducting is to be field supplied.

- 1 **Air inlet side.** Connect the inlet side flange (field supply) to the indoor unit, use screws from accessory (table below). Connect the canvas duct to the inside of the inlet side flange. Connect the duct to the canvas duct.

Number of screws according to class		
25~32	40~50	63
16	22	26

- 2 **Air outlet side.** Connect the canvas duct to the inside of the outlet side flange. Connect the duct to the canvas duct.



- a Screws for duct flanges
For air inlet side: accessory
For air outlet side: on the unit
- b Flange
For air inlet side: field supply
For air outlet side: on the unit
- c Indoor unit
- d Insulation (field supply)
- e Canvas duct (field supply)
- f Aluminium tape (field supply)

- 3 Wind aluminium tape around the flange and duct connection on both sides. Make sure there are no air leaks at any other connection.
 - 4 Insulate the duct to prevent condensation from forming. Use glass wool or polyethylene foam 25 mm thick.
- **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 $\geq 50\%$ (gravimetric method). The included filter is not used when the duct is attached to air inlet side.

12.2.3 Guidelines when installing the drain piping

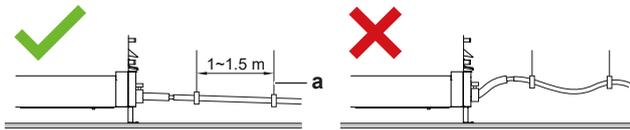
Make sure condensation water can be evacuated properly. This involves:

- General guidelines
- Connecting the drain piping to the indoor unit

- Checking for water leaks

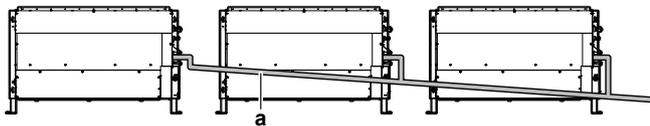
General guidelines

- **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 20 mm nominal diameter and 26 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.** You can combine drain pipes. Make sure to use drain pipes and T-joints with the correct gauge for the operating capacity of the units.



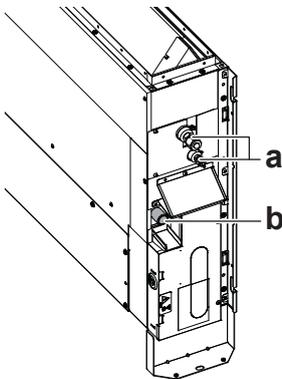
a Central drain piping (with slope of at least 1/100)

To connect the drain piping to the indoor unit



NOTICE

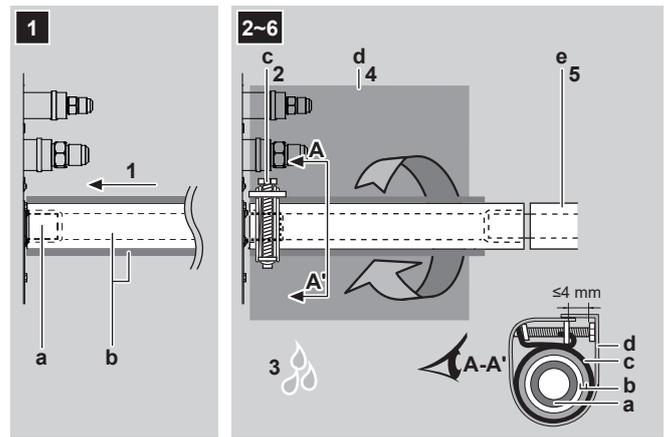
Incorrect connection of the drain hose might cause leaks, and damage the installation space and surroundings.



a Refrigerant pipes
b Drain pipe connection

Drain piping connection

- 1 Push the drain hose as far as possible over the drain pipe connection.
- 2 Tighten the metal clamp until the screw head is less than 4 mm from the metal clamp part.
- 3 Check for water leaks (see "To check for water leaks" [▶ 17]).
- 4 Wind the large sealing pad (= insulation) around the metal clamp and drain hose, and fix it with large tie wraps (accessory).
- 5 Connect the drain piping to the drain hose.



- a Drain pipe connection (attached to the unit)
- b Drain hose (accessory)
- c Metal clamp (accessory)
- d Large sealing pad (accessory)
- e Drain piping (field supply)

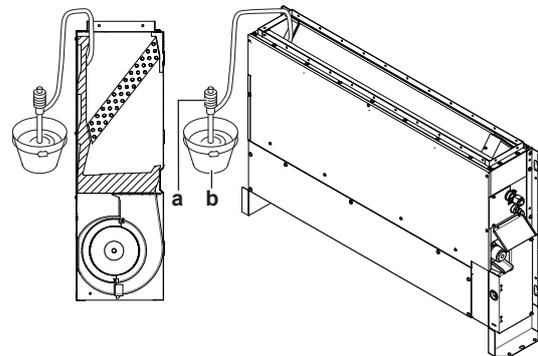


NOTICE

- Do NOT remove the drain pipe plug. Water might leak out.
- Use the drain outlet only to discharge the water before maintenance.
- Insert and remove the drain plug gently. Excessive force may deform the drain socket of the drain pan.

To check for water leaks

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



- a Portable pump
- b Bucket (adding water through water inlet)

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" [▶ 17]. Only mechanical joints (e.g. braze+flare connections) that are compliant with the latest version of ISO14903 can be used.

14 Electrical installation

CAUTION

- When **mechanical** connectors are re-used indoors, renew the sealing parts.
- When **flared joints** are re-used indoors, re-make the flared part.

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 piping	Gas piping
20~32	Ø6.4 mm	Ø9.5 mm
40~63	Ø6.4 mm	Ø12.7 mm

Refrigerant piping material

Piping material

Phosphoric acid deoxidised seamless copper

Flare connections

Only use annealed material.

Piping temper grade and thickness

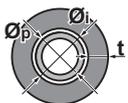
Outer diameter (Ø)	Temper grade	Thickness (t) ^(a)	
6.4 mm (1/4")	Annealed (O)	≥ 0.8 mm	
9.5 mm (3/8")			
12.7 mm (1/2")			

^(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

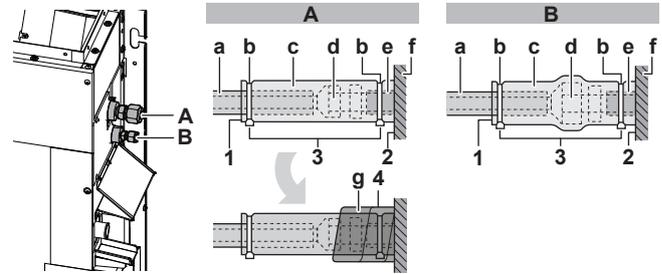
Install the refrigerant piping or components in a position where they are unlikely to be exposed to any substance which may corrode components containing refrigerant, unless the components are constructed of materials that are inherently resistant to corrosion or are suitably protected against corrosion.



A2L WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.

- Pipe length.** Keep refrigerant piping as short as possible.
- Flare connections.** Connect refrigerant piping to the unit using flare connections.
- Insulation.** Insulate the refrigerant piping on the indoor unit as follows:



- A Gas piping
- B Liquid piping

- a Insulation material (field supply)
- b Tie wraps: Large (accessory)
- c Insulation pieces: Large (gas pipe), small (liquid pipe) (accessory)
- d Flare nut (attached to the unit)
- e Refrigerant pipe connection (attached to the unit)
- f Unit
- g Sealing pads: Small (gas pipe) (accessory)

- Turn up the seams of the insulation pieces.
- Attach to the base of the unit.
- Tighten the tie wrap on the insulation pieces.
- Wrap the sealing pad from the base of the unit to the top of the flare nut.



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

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



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 of the product	
Voltage	220~240 V/220 V
Frequency	50/60 Hz
Phase	1~
MCA ^(a)	FXNA20~32: 0.9 A FXNA40~63: 1.1 A

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

Wiring / circuit breaker (field supplied)	
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
Transmission wiring	Only use harmonised wire providing double insulation and suitable for applicable voltage 2-core cable Minimum size 0.75 mm ²
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.

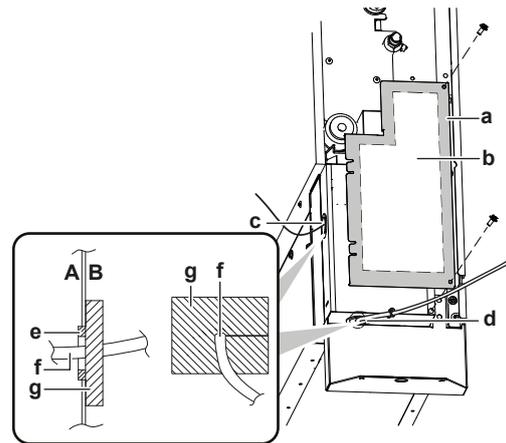
It is important to keep the power supply and the interconnection wiring separated from each other. In order to avoid any electrical interference, the distance between both wirings should ALWAYS be at least 50 mm.



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.



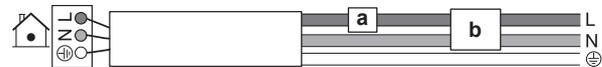
- A Inside the unit
- B Outside the unit
- a Service cover
- b Wiring diagram
- c Connection of interconnection and user interface wiring
- d Connection of power supply
- e Opening for cables
- f Wire
- g Sealing material (accessory)

2 **User interface cable:** Route the cable through the frame, connect the cable to the terminal block (symbols P1, P2).

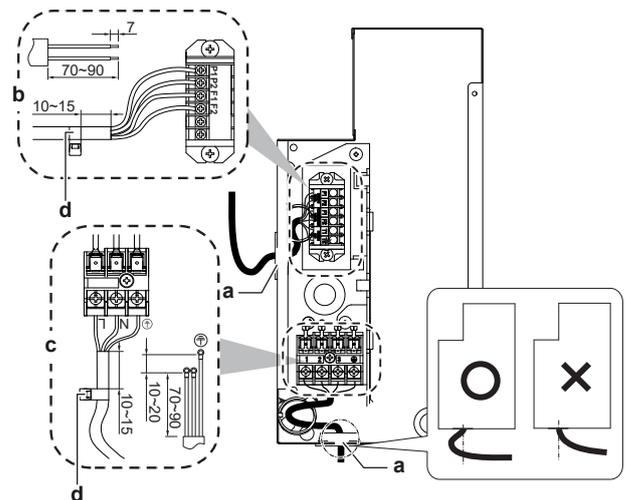
3 **Interconnection cable:** Route the cable through the frame, connect the cable to the terminal block (make sure the symbols F1, F2 match with the symbols on the outdoor unit).

4 **Power supply cable:** Route the cable through the frame and connect the cable to the terminal block (L, N, earth).

5 **Plastic clamp for tie wrap:** Pass tie wraps through the plastic clamps and fasten to fix the cables.



- a Circuit breaker
- b Residual current device



- a Opening for cables
- b Interconnection and user interface wiring
- c Power supply wiring
- d Large tie wrap (accessory)
- X Not allowed
- O Allowed

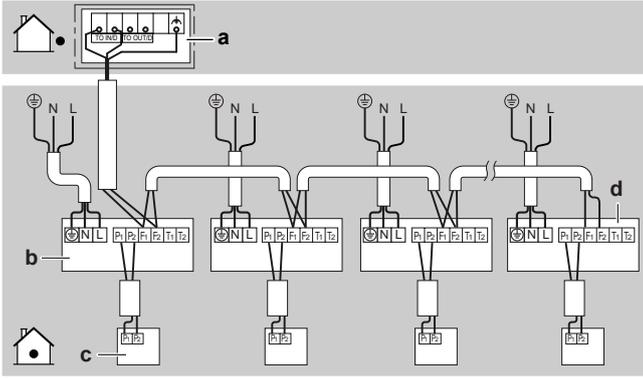
6 Wrap the cables with the sealing material (accessory) to prevent water from entering the unit. Seal all gaps to prevent small animals from entering the system.

7 Reattach the service cover.

15 Commissioning

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 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**.

<input type="checkbox"/>	Installation Check that the unit is properly installed, to avoid abnormal noises and vibrations when starting up the unit.
<input type="checkbox"/>	Drainage Make sure drainage flows smoothly. Possible consequence: Condensate water might drip.
<input type="checkbox"/>	Ducting Make sure the ducting is properly installed and insulated.
<input type="checkbox"/>	Field wiring Check that the field wiring has been carried out according to the instructions described in the chapter " 14 Electrical installation " [p 18], according to the wiring diagrams and according to the applicable national wiring regulation.
<input type="checkbox"/>	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.
<input type="checkbox"/>	Earth wiring Be sure that the earth wires have been connected properly and that the earth terminals are tightened.
<input type="checkbox"/>	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 " [p 18]. Be sure that no fuse or protection device is bypassed.
<input type="checkbox"/>	Internal wiring Visually check the switch box and the inside of the unit for loose connections or damaged electrical components.
<input type="checkbox"/>	Pipe size and pipe insulation Be sure that correct pipe sizes are installed and that the insulation work is properly executed.
<input type="checkbox"/>	Damaged equipment Check the inside of the unit for damaged components or squeezed pipes.
<input type="checkbox"/>	Field settings Make sure all field settings you want are set. See " 16.1 Field setting " [p 20].

15.2 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.

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:

- Static pressure
- Air volume when thermostat control is OFF
- Time to clean air filter
- Thermostat sensor selection
- Differential for automatic changeover
- Auto-restart after power failure
- T1/T2 input setting

i 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.

Setting: Static pressure

Change the value number (—) in accordance with the external static pressure of the duct to be connected as in the table below. See technical documentation for details.

Setting ⁽¹⁾			External static pressure
M	SW	—	
13(23)	5	01	Standard
		02	High static pressure setting

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

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...	Then ⁽¹⁾			Example
	M	SW	—	
0°C	12 (22)	4	01	cooling 24°C/heating 24°C
1°C			02	cooling 24°C/heating 23°C
2°C			03	cooling 24°C/heating 22°C
3°C			04	cooling 24°C/heating 21°C
4°C			05	cooling 24°C/heating 20°C
5°C			06	cooling 24°C/heating 19°C
6°C			07	cooling 24°C/heating 18°C
7°C			08	cooling 24°C/heating 17°C

Setting: Auto-restart after power failure

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

⁽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).

17 Technical data

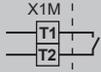
If you want auto-restart after power failure...	Then ⁽¹⁾		
	M	SW	—
Disabled	12 (22)	5	01
Enabled			02

Setting: T1/T2 input setting



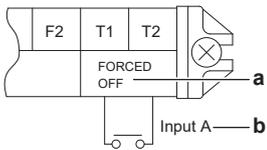
WARNING

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 set...	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

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
	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)

⁽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
HIGH VOLTAGE	High voltage
IES	Intelligent eye sensor
IPM*	Intelligent power module
K*R, KCR, KFR, KHuR, K*M	Magnetic relay
L	Live
L*	Coil
L*R	Reactor
M*	Stepper motor
M*C	Compressor motor
M*F	Fan motor
M*P	Drain pump motor
M*S	Swing motor
MR*, MRCW*, MRM*, MRN*	Magnetic relay
N	Neutral
n=*, N=*	Number of passes through ferrite core
PAM	Pulse-amplitude modulation
PCB*	Printed circuit board
PM*	Power module
PS	Switching power supply
PTC*	PTC thermistor
Q*	Insulated gate bipolar transistor (IGBT)
Q*C	Circuit breaker
Q*DI, KLM	Earth leak circuit breaker
Q*L	Overload protector
Q*M	Thermo switch
Q*R	Residual current device
R*	Resistor
R*T	Thermistor
RC	Receiver
S*C	Limit switch
S*L	Float switch
S*NG	Refrigerant leak detector
S*NPH	Pressure sensor (high)
S*NPL	Pressure sensor (low)
S*PH, HPS*	Pressure switch (high)
S*PL	Pressure switch (low)
S*T	Thermostat
S*RH	Humidity sensor
S*W, SW*	Operation switch
SA*, F1S	Surge arrester
SR*, WLU	Signal receiver
SS*	Selector switch
SHEET METAL	Terminal strip fixed plate
T*R	Transformer
TC, TRC	Transmitter
V*, R*V	Varistor
V*R	Diode bridge, Insulated-gate bipolar transistor (IGBT) power module
WRC	Wireless remote controller
X*	Terminal
X*M	Terminal strip (block)
Y*E	Electronic expansion valve coil

Symbol	Meaning
Y*R, Y*S	Reversing solenoid valve coil
Z*C	Ferrite core
ZF, Z*F	Noise filter

ERC



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