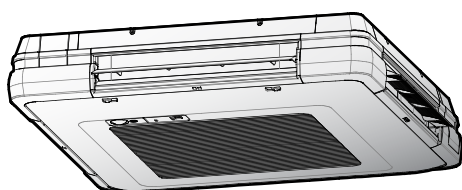




Installation and operation manual

VRV system air conditioner



FXUA50AVEB
FXUA71AVEB
FXUA100AVEB

Installation and operation manual
VRV system air conditioner

English

[illegible]

Daikin Europe N.V.

- | | | |
|----|---|--|
| | deciare under its sole responsibility that the products to which this declaration relates: | |
| 01 | erklart in seiner Verantwortung, dass die Produkte, auf die sich diese Erklärung bezieht: | |
| 02 | déclare sous sa seule responsabilité que les produits visés par la présente déclaration: | |
| 03 | verklaart herby op eigen verantwoordelijkheid dat de producten waarop deze verklaring betrekking heeft: | |
| 04 | declara bajo su propia responsabilidad que los productos a los que hace referencia esta declaración: | |
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| 06 | бъявляет под своей ответственностью, что продукция, на которую распространяется данная декларация, | |
| 07 | declara sotto sua esclusiva responsabilità che os prodotti a cui esta declaração se refere; | |
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FXUA50AVEB, FXUA71AVEB, FXUA100AVEB,

- 01 are in conformity with the following (directional) or regulation(s) provided that the products are used in accordance with our instructions;
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03 folgenden Richtlinie(n) oder (Vorschriften) entsprechen, vorausgesetzt, dass diese gemäß unserer (Anweisungen) verwendet werden;
04 conformes à la(ux) directive(s) ou règlement(s) suivants, à condition que les produits soient utilisés conformément à nos instructions;
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 съответствуют следующим директивам и/или постановлениям, при условии, что продукция используется в соответствии с нашими
08 инструкциями;
09 estão em conformidade com as seguintes(s) directiva(s) ou regulamento(s), desde que os produtos sejam utilizados de acordo com as nossas
10 instruções;

Machinery 2006/42/EC**

Electromagnetic Compatibility 2014/30/EU*

- | | | | |
|----|-----------------------------------|----|------------------------------|
| 01 | following the provisions of: | 10 | under begrippe af: |
| 02 | gemäß den Bestimmungen in: | 11 | under betegnelserne for: |
| 03 | conformément aux dispositions de: | 12 | i henhold til bestemmelserne |
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 **DAIKIN EUROPE N.V.**
Hiroimitsu Iwasaki
Director
Ostend, 1st of February 2022
Zandvoordestraat 300, B-8400 Oostende, Belgium

UKCA – Safety declaration of conformity

Daikin Europe N.V.

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

FXUA50AVEB, FXUA71AVEB, FXUA100AVEB,

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

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

as amended,

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

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

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1 About the documentation

1.1 About this document

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.



WARNING

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

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 <http://www.daikineurope.com/support-and-manuals/product-information/>

Latest revisions of the supplied documentation may be available on the regional Daikin website or via your dealer.

The original documentation is written in English. All other languages are translations.

Technical engineering data

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

2 Specific installer safety instructions

Always observe the following safety instructions and regulations.

General



WARNING

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

Unit installation (see "12 Unit installation" [p 15])

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



WARNING

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



CAUTION

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

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



WARNING

Keep any required ventilation openings clear of obstructions.



CAUTION

This equipment is NOT intended for use in residential locations and will NOT guarantee to provide adequate protection to radio reception in such locations.

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



CAUTION

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



CAUTION

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

Electrical installation (see "14 Electrical installation" [p 21])



WARNING

ALWAYS use multicore cable for power supply cables.



WARNING

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



WARNING

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



WARNING

Use an all-pole disconnection type breaker with at least 3 mm between the contact point gaps that provide full disconnection under overvoltage category III.



WARNING

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



CAUTION

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



CAUTION

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

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



WARNING

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



a Fire alarm input signal (potential free contact)

3 User safety instructions

2.1 Instructions for equipment using R32 refrigerant



WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.



WARNING

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



WARNING

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



WARNING

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



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.



NOTICE

- Precautions shall be taken to avoid excessive vibration or pulsation to refrigeration piping.
- Protection devices, piping and fittings shall be protected as far as possible against adverse environmental effects.
- Provision shall be made for expansion and contraction of long runs of piping.
- Piping in refrigerating systems shall be designed and installed such as to minimise the likelihood of hydraulic shock damaging the system.
- The indoor equipment and pipes shall be securely mounted and guarded such that accidental rupture of equipment or pipes cannot occur from events such as moving furniture or reconstruction activities.



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 installation between parts of refrigerant system shall be accessible for maintenance purposes.



NOTICE

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

2.1.1 Installation space requirements



CAUTION

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



WARNING

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



NOTICE

- Pipework shall be protected from physical damage.
- Installation of pipework shall be kept 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: the dismantling of the system, treatment of the refrigerant, of oil and of other parts **MUST** be done by an authorised installer and **MUST** comply with applicable legislation.

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

- Batteries are marked with the following symbol:



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

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

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

3.2 Instructions for safe operation

WARNING

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

CAUTION

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

CAUTION

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

3 User safety instructions

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.

WARNING

NEVER touch the air outlet or the horizontal blades while the swing flap is in operation. Fingers may become caught or the unit may break down.

CAUTION

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

WARNING

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

WARNING

Keep any required ventilation openings clear of obstructions.

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

CAUTION: Pay attention to the fan!

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

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

CAUTION

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

WARNING

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

CAUTION

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

CAUTION

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

DANGER: RISK OF ELECTROCUTION

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

WARNING

Be careful with ladders when working in high places.

DANGER: RISK OF ELECTROCUTION

Disconnect the power supply for more than 10 minutes, and measure the voltage at the terminals of main circuit capacitors or electrical components before servicing. The voltage MUST be less than 50 V DC before you can touch electrical components. For the

location of the terminals, see the warning label for persons performing service and maintenance.

CAUTION

Turn off the unit before cleaning the unit exterior, air filter and suction grille.

WARNING

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

About the refrigerant (see "7.3 About the refrigerant" ▶ 13])

WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.

WARNING

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

WARNING

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

WARNING

- The refrigerant inside the unit is mildly flammable, but normally does NOT leak. If the refrigerant leaks in the room and comes in contact with fire from a burner, a heater, or a cooker, this may result in fire, or the formation of a harmful gas.
- Turn OFF any combustible heating devices, ventilate the room, and contact the dealer where you purchased the unit.

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

WARNING

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

Troubleshooting (see "8 Troubleshooting" ▶ 14])

WARNING

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

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

4 About the system

WARNING

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

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.

CAUTION

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

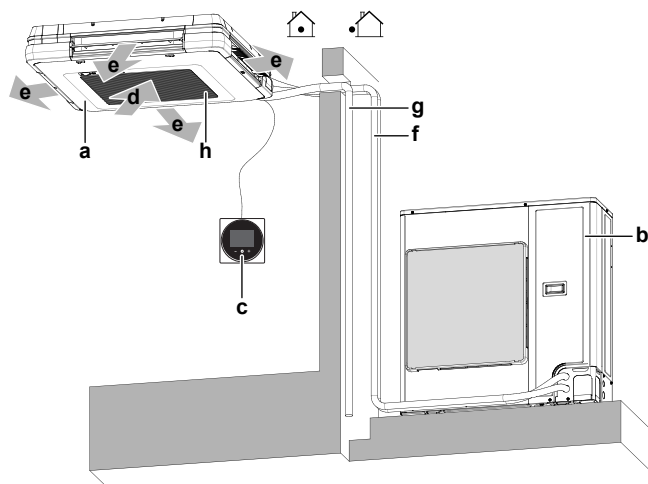
5 User interface

4.1 System layout



INFORMATION

The following illustration is an example and might NOT match your system layout.



- a Indoor unit
- b Outdoor unit
- c User interface
- d Suction air
- e Discharge air
- f Refrigerant piping + transmission cable
- g Drain pipe
- h Suction grille and air filter

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 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

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



NOTICE

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

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

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

6 Operation

6.1 Operation range



INFORMATION

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

6.2 About operation modes



INFORMATION

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



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

6.2.1 Basic operation modes

The indoor unit can operate in various operation modes.

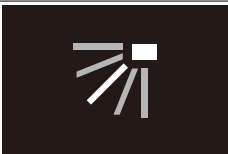
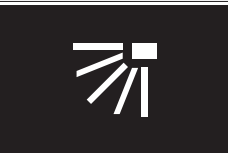

Icon	Operation mode
	Cooling. In this mode, cooling will be activated as required by the setpoint, or by Setback operation.
	Heating. In this mode, heating will be activated as required by the setpoint, or by Setback operation.
	Fan only. In this mode, air circulates without heating or cooling.
	Dry.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

6.2.2 Special heating operation modes

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

6.2.3 Adjusting the airflow direction

The following airflow directions can be set:

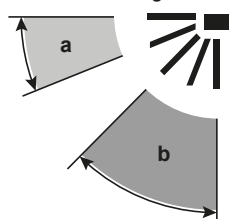
Direction	Display
Fixed position. The indoor unit blows air in 1 of 5 fixed positions.	
Swing. The indoor unit alternates between the 5 positions.	
Auto. The indoor unit adjusts its airflow direction according to set operation or according to movement sensed by a movement sensor.	



INFORMATION

Depending on system layout and organisation, Auto airflow direction may not be available.

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



- a Cooling operation
b Heating operation



INFORMATION

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

Automatic airflow control

Cooling	Heating
<ul style="list-style-type: none"> When the room temperature is lower than the controller's setpoint for cooling operation (including auto operation). When the indoor units run in Continuous operation, and the airflow direction is downward. 	<ul style="list-style-type: none"> When starting operation. When the room temperature is higher than the controller's setpoint for heating operation (including auto operation). At defrost operation.
<ul style="list-style-type: none"> When the indoor units run continuously for a long time and the airflow direction is Horizontal. 	



WARNING

NEVER touch the air outlet or the horizontal blades while the swing flap is in operation. Fingers may become caught or the unit may break down.



NOTICE

Avoid operating in the horizontal direction. It may cause dew or dust to settle on the ceiling or flap.

6.3 To operate the system



INFORMATION

For setting of the operation mode, airflow direction, active circulation airflow 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



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.



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.



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, suction grille and the unit exterior.



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.

7 Maintenance and service



CAUTION

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



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.



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.



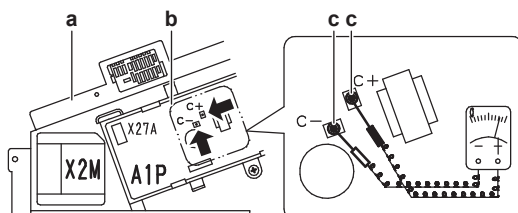
NOTICE

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.



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 Control box
- b Printed circuit board
- c Residual voltage measuring points

7.2 Cleaning the unit exterior, air filter and suction grille



CAUTION

Turn off the unit before cleaning the unit exterior, air filter and suction grille.



NOTICE

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

7.2.1 To clean the exterior



WARNING

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

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

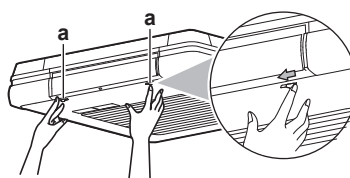
7.2.2 To clean the air filter

When to clean the air filter:

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

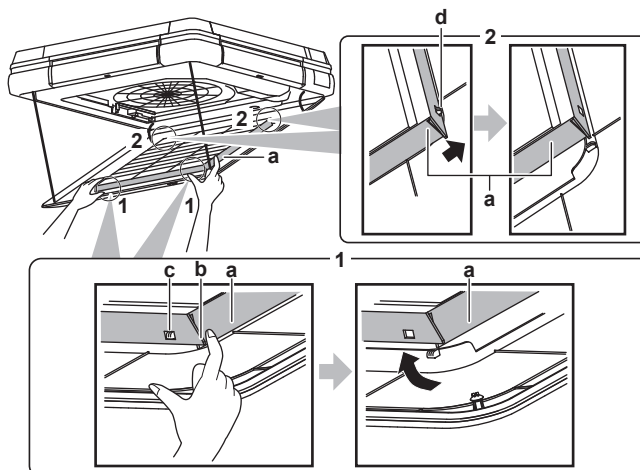
How to clean the air filter:

- 1 **Open the suction grille.** Simultaneously slide the two knobs and open the suction grille carefully.



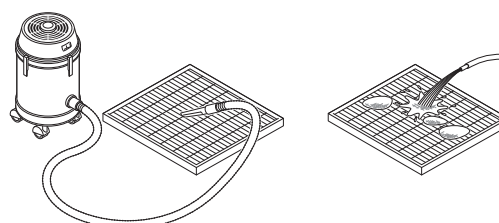
a Knobs

- 2 **Remove the air filter.** Pull the bottom end of the air filter on each side to remove it from the tabs on the suction grille, then lift the air filter up to remove it from the tabs on the top part of the suction grille.



- a Air filter
- b Bottom end of the air filter
- c Tab on the bottom part of the suction grille
- d Tab on the top part of the suction grille

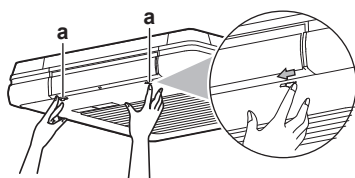
- 3 **Clean the air filter.** Use a vacuum cleaner or wash with water. If the air filter is very dirty, use a soft brush and neutral detergent.



- 4 Dry the air filter in the shadow.
- 5 Reattach the air filter and close the suction grille.
- 6 Turn ON the power.
- 7 To remove warning screens, see the reference guide of the user interface.

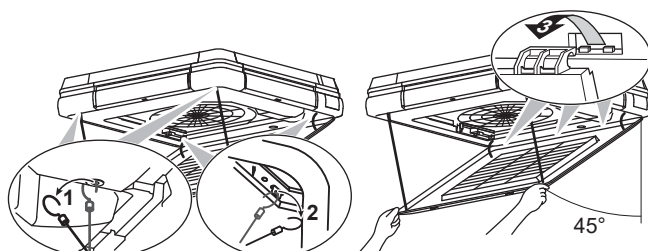
7.2.3 To clean the suction grille

- 1 **Open the suction grille.** Simultaneously slide the two knobs and carefully open the suction grille.



a Knobs

- 2 **Remove the suction grille.** Unhook the 4 straps from the indoor unit. Open the suction grille in a 45° angle and unhook it from the hooks (3 places).



- 3 **Remove the air filter.** Refer to "7.2.2 To clean the air filter" [p. 12].
- 4 **Clean the suction grille.** Wash with a soft bristle brush and water or neutral detergent. If the suction grille is very dirty, use a typical kitchen cleaner, leave it on for 10 min, then wash it with water.
- 5 **Reattach the air filter.** Refer to "7.2.2 To clean the air filter" [p. 12].
- 6 **Reattach the suction grille and close it.** (steps 2 and 1 in reverse order).

i INFORMATION

When closing the suction grille, make sure the straps of the suction grille are not pinched anywhere.

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

! 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

Please contact your installer for more information.



WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.



WARNING

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



WARNING

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



WARNING

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

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

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



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 of the R32 refrigerant leakage sensor.



INFORMATION

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

In case of detection when the unit is in standby

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

False detection check

- 1 The unit starts fan operation on the lowest setting.
- 2 The user interface displays error "A0-13", emits an alarm sound and the status indicator blinks.
- 3 The sensor checks if a refrigerant leakage or misdetection occurred.

8 Troubleshooting

- No refrigerant leakage detected. **Result:** The system resumes normal operation after approximately 2 minutes.
- Refrigerant leakage detected. **Result:**
 - The user interface displays error "A0-11", emits an alarm sound and the status indicator blinks.
 - Contact your dealer immediately. For more information, see the installation manual of the outdoor unit.

In case of detection when the unit is turned on

- The user interface displays error "A0-11", emits an alarm sound and the status indicator blinks.
- Contact your dealer immediately. For more information, see the installation manual of the outdoor unit.



INFORMATION

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



INFORMATION

The minimum airflow during normal operation or during the refrigerant leakage detection is always >240 m³/h.

Malfunction	Measure
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 <http://www.daikineurope.com/support-and-manuals/product-information/> for more troubleshooting tips.

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

8 Troubleshooting

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



WARNING

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

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

The system MUST be repaired by a qualified service person.

Malfunction	Measure
If a safety device such as a fuse, a circuit breaker or a residual current device frequently actuates or the ON/OFF switch does NOT function properly.	Turn OFF all main power supply switches to the unit.

9 Relocation

Contact your dealer for removing and reinstalling the total 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.

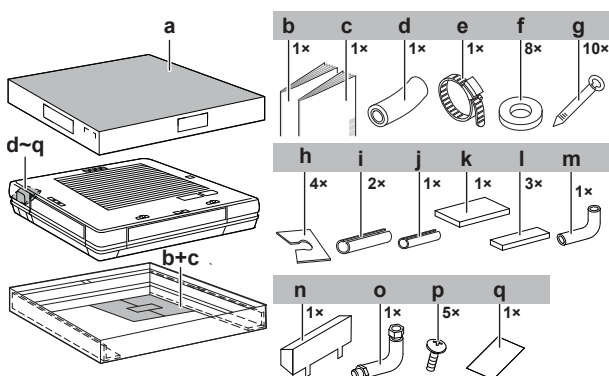
For the installer

11 About the box

11.1 Indoor unit

11.1.1 To remove the accessories from the indoor unit

- Remove the accessories from the bottom of the packing box.
- Remove the corner cover on the refrigerant piping side and remove the accessories from the interior of the unit.



- a Paper pattern for installation (top part of packing box)
- b General safety precautions
- c Indoor unit installation and operation manual
- d Drain hose
- e Metal clamp

- f Washer for hanger bracket
- g Tie wraps
- h Clamp washer
- i Insulation piece: Large (gas pipe)
- j Insulation piece: Small (liquid pipe)
- k Large sealing pad
- l Small sealing pad
- m Elbow
- n Blocking pad
- o L-shaped piping
- p Screw
- q Non-woven fabric

12 Unit installation

12.1 Preparing the installation site

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



WARNING

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

12.1.1 Installation site requirements of the indoor unit

Minimum floor area requirements



CAUTION

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



INFORMATION

The sound pressure level is less than 70 dBA.



INFORMATION

Equipment meets the requirement for commercial and light-industrial location when professionally installed and maintained.



CAUTION

This equipment is NOT intended for use in residential locations and will NOT guarantee to provide adequate protection to radio reception in such locations.



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.



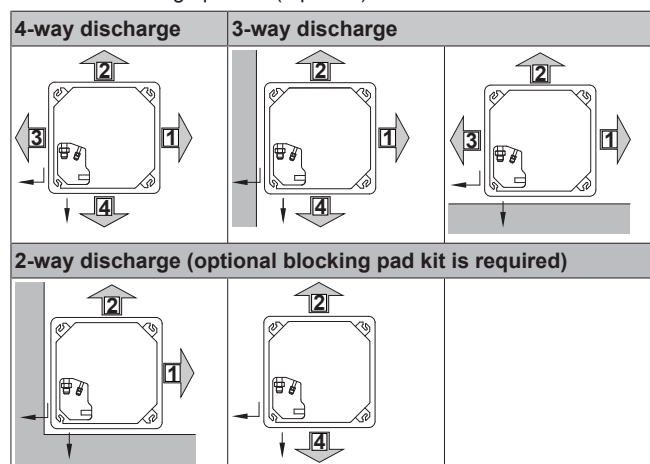
NOTICE

The professional installer shall evaluate the EMC situation before installation, if the equipment is installed closer than 30 m to a residential location.

- **Paper pattern for installation** (top part of packing box). Use the paper pattern to determine the locations of suspension bolts, piping outlet, drain piping outlet and electric wiring inlet.

- **Airflow directions.** Choose the air discharge pattern according to the installation location. In case of 2-way and 3-way air discharge, field setting is required. See "17.1 Field setting" [p. 23].

12-1 Discharge pattern (top view)



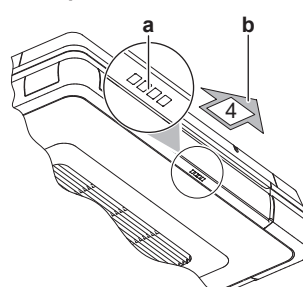
The symbols ↓ and ↘ show the refrigerant piping direction.

- ↓ rear (straight) refrigerant piping
- ↘ right (bent) refrigerant piping

For upward refrigerant piping, any discharge pattern can be selected.

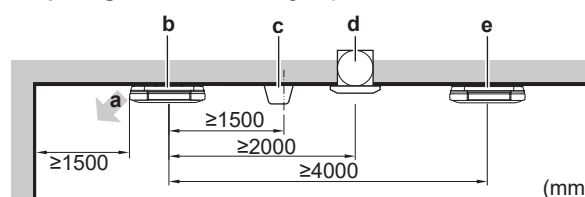
The number in the * symbol corresponds with the number of air outlets indicated by the number of □ symbols on the unit.

Example:



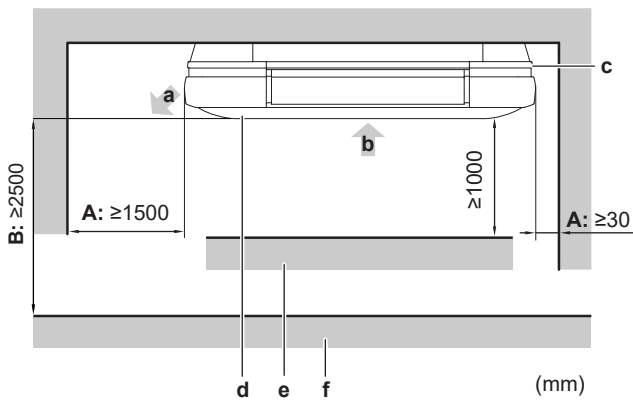
- a Indication on the unit
- b Number of air outlets

- **Spacing.** Mind the following requirements:



- a Air outlet
- b Indoor unit
- c Lighting (the figure shows ceiling-mounted lighting, but recessed lighting is also allowed)
- d Air fan

12 Unit installation



- A** Minimum distance to the wall
B Minimum and maximum distance to the floor
a Air outlet
b Air inlet
c Side with closed air outlet (blocking pad kit required)
d Indoor unit
e Obstacles
f Floor

- **A: Minimum distance to the wall.** Depends on the airflow directions towards the wall.
 - Minimum: 1.5 m in case of an open air outlet. In case of a closed air outlet, a minimum distance of 30 mm is required.
- **B: Minimum and maximum distance to the floor:**
 - Minimum: 2.5 m to avoid accidental touching.
 - Maximum: Depends on the capacity class. See "17.1 Field setting" [p 23].



INFORMATION

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

12.2 Mounting the indoor unit

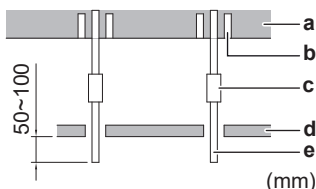
12.2.1 Guidelines when installing the indoor unit



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.

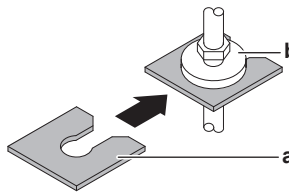
- **Ceiling strength.** Check whether the ceiling is strong enough to support the weight of the unit. If there is a risk, reinforce the ceiling before installing the unit.
 - For existing ceilings, use anchors.
 - For new ceilings, use sunken inserts, sunken anchors or other field supplied parts.



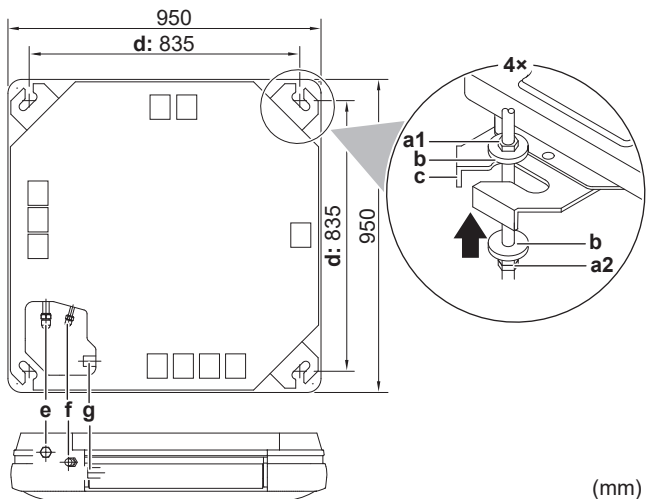
- a** Ceiling slab
b Anchor
c Long nut or turnbuckle
d Suspended ceiling
e Suspension bolt

- **Suspension bolts and unit.** Use M8~M10 suspension bolts for installation. Attach the hanger bracket to the suspension bolt. Fix it securely using a nut and washer on the top and bottom of the

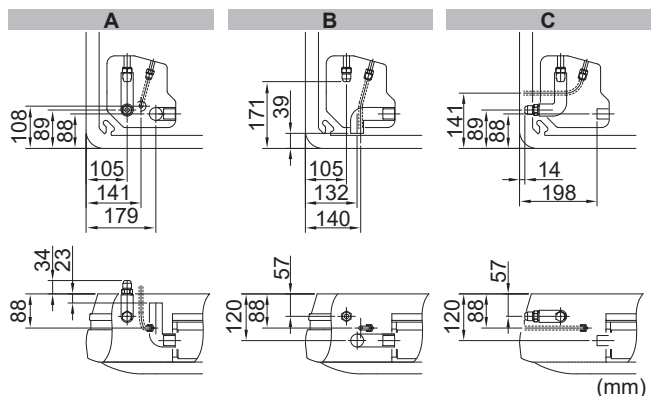
hanger bracket. Attached clamp washer (accessory) can be used to prevent the washer for hanger bracket (accessory) from falling during installation. Remove the clamp washer after the unit is mounted.



- a** Clamp washer (accessory)
b Washer for hanger bracket (accessory)



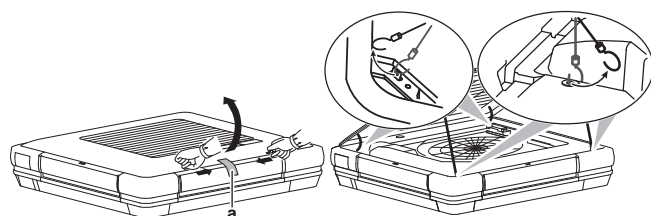
- a1** Top nut (field supply)
a2 Bottom double nut (field supply)
b Washer for hanger bracket (accessory)
c Hanger bracket (attached to the unit)
d Suspension bolt pitch
e Gas piping
f Liquid piping
g Drain connection outlet (VP20)



- A** Locations of upward piping and drain connection
B Locations of rear piping and drain connection
C Locations of right piping and drain connection

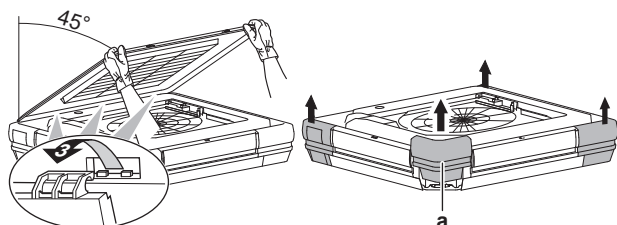
To open the suction cover and remove the corner cover

- 1 Remove the transportation tape.
- 2 Simultaneously slide the two knobs to the centre, open the suction grille and remove it from the hooks.



a Transportation tape

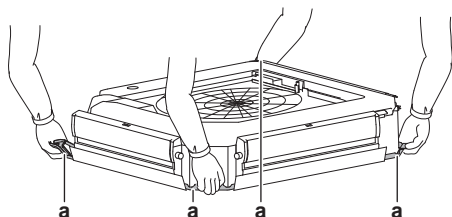
- 3 Hold the suction grille open in a 45° angle and unhook it from 3 hooks. Remove the corner covers.



a Corner cover

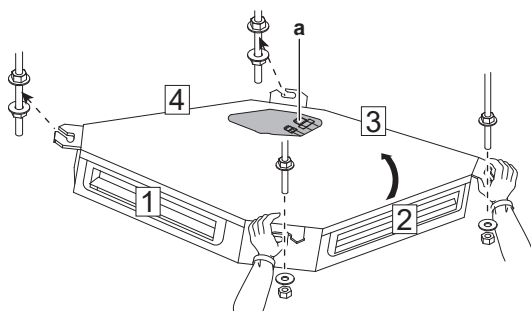
To mount the indoor unit

- 1 For 2-way or 3-way air discharge, refer to "To block the air outlet for 2-way or 3-way air discharge" [▶ 17].
- 2 Handle the unit only by the hanger brackets.



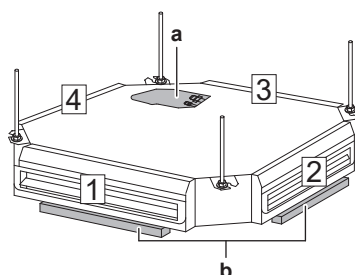
a Hanger bracket

- 3 Temporarily hang the unit on the 2 suspension bolts on the air outlet [4] side.
- 4 Insert the remaining 2 suspension bolts into the hanger bracket and fix it securely with the bottom washer and nut.



a Piping part

- 5 Make sure that the unit is level at the air outlet sides [1] and [2] using a level. For 2-way air discharge, install the unit with a 1° downward inclination to the drain piping.



- a Piping part
- b Level



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 block the air outlet for 2-way or 3-way air discharge

- Use the blocking pad (accessory) for 3-way air discharge.

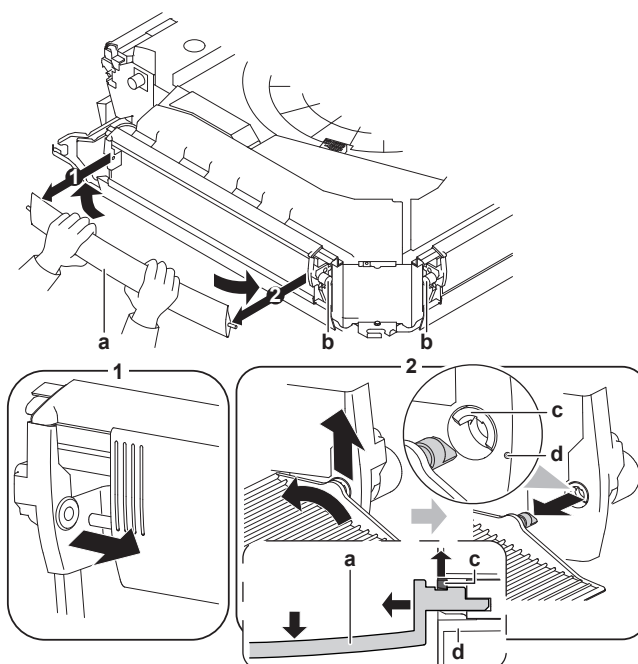


INFORMATION

For 2-way air discharge, the optional blocking pad kit is required.

- Blocking pads (accessory) can be used for any air discharge pattern. See "12-1 Discharge pattern (top view)" [▶ 15].

Remove the horizontal blade from the air outlet to be blocked.



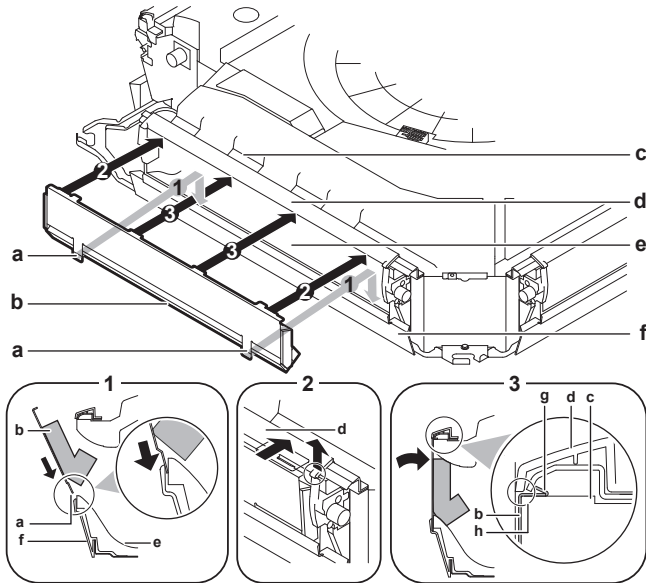
- a Horizontal blade
- b Stepper motor
- c Claw
- d Bearing

- 1 Carefully lift the horizontal blade with both hands and remove it from the bearing on the side without the stepper motor.
- 2 Turn the horizontal blade backward; remove it from the claw of the bearing on the side with the stepper motor. Lift the horizontal blade and remove it.

When the horizontal blade is difficult to remove, slowly push it down to make removal easier.

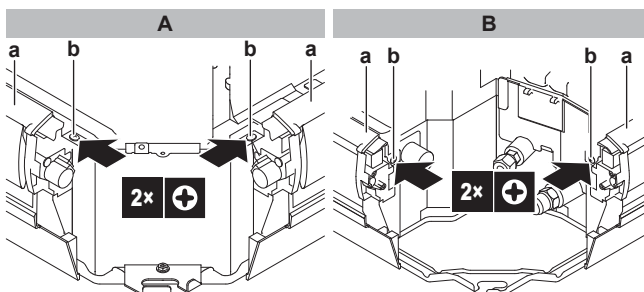
12 Unit installation

Fix the blocking pad to the air outlet.



- a Protruding part
- b Blocking pad
- c Drain pan
- d Lower decoration panel
- e Insulation
- f Upper decoration panel
- g Bent part of blocking pad
- h Space between lower decoration panel and drain pan

- 1 Insert the protruding part (2 locations) of the blocking pad into the space between the upper decoration panel and the insulation.
 - 2 Insert the bent parts (2 locations) at the ends of the blocking pad a little into the space between the lower decoration panel and insert the blocking pad.
- If the blocking pad is difficult to insert, first loosen the screws on both sides of the lower decoration panel and then insert it.



- A Side without piping connection
- B Side with piping connection
- a Lower decoration panel
- b Screw

- 3 Insert the bent parts (2 locations) at the middle of the blocking pad into the space between the lower decoration panel and the drain pan until you hear a clicking sound.
- 4 Check that the sheet metal section of the blocking pad does not protrude from the lower decoration panel.



NOTICE

Make sure there is no space between the blocking pad and the indoor unit. Any remaining space may cause air leakage and condensation.

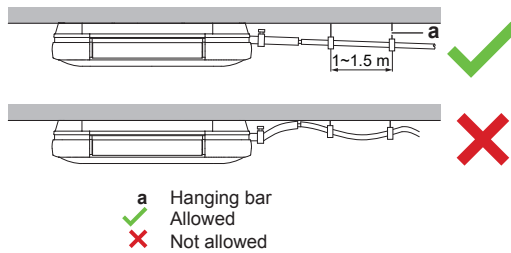
12.2.2 Guidelines when installing the drain piping

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

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

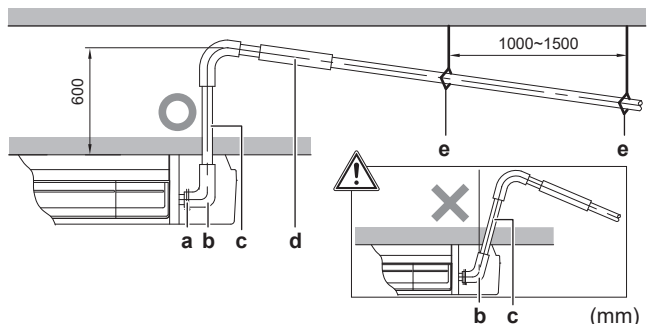
General guidelines

- **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.



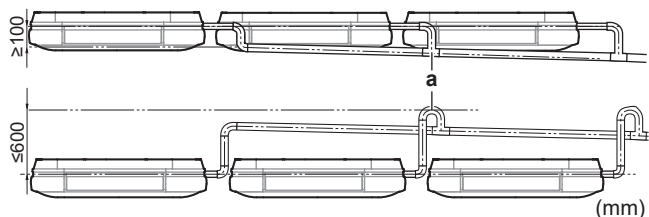
- ✓ a Hanging bar
Allowed
- ✗ Not allowed

- **Condensation.** Take measures against condensation. Insulate the complete drain piping in the building.
- **Rising piping.** If necessary to make the slope possible, you can install rising piping.
 - Drain hose inclination: 0~75 mm to avoid stress on the piping and to avoid air bubbles.
 - Make sure to install the rising piping vertically upright. Inclined rising piping may cause water leakage.



- OK
- ✗ Not OK
- a Metal clamp (accessory)
- b Elbow for upward or rear piping (accessory)
- c Rising drain piping (vinyl pipe of 20 mm nominal diameter and 26 mm outer diameter) (field supply)
- d Drain hose for right piping (accessory)
- e Hanging bars (field supply)

- **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 T-joint

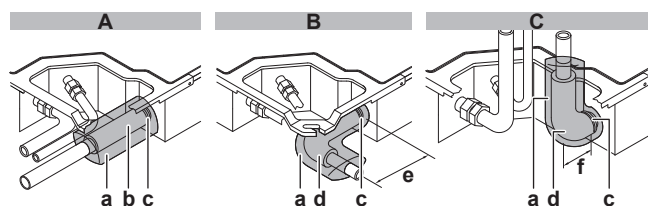
To connect the drain piping to the indoor unit



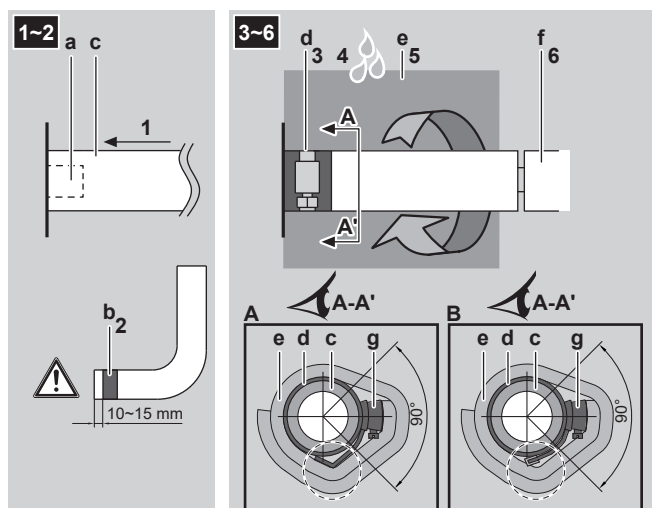
NOTICE

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

Drain piping can be connected from 3 directions:



- A Right piping
- B Rear piping
- C Upward piping
- a Sealing material (large) (accessory)
- b Drain hose (accessory)
- c Metal clamp (accessory)
- d Elbow (accessory)
- e Longer side of elbow (rear piping)
- f Shorter side of elbow (upward piping)



- a Drain pipe connection (attached to the unit)
- b Vinyl tape (field supply)
- c Drain hose (accessory)
- d Metal clamp (accessory)
- e Large sealing pad (accessory)
- f Drain piping (field supply)
- g Tightened part of metal clamp
- A In case of bending the end of the metal clamp
- B In case of wrapping the end of the metal clamp with vinyl tape

- 1 Push the drain hose or the elbow (for rear and upward piping) as far as possible over the drain pipe connection.
- 2 For rear and upward piping, wrap the vinyl tape 2 or 3 times around the elbow so that the tape covers more than the width of the metal clamp, leaving 10~15 mm unwrapped at the end of the elbow.
- 3 Tighten the metal clamp over the taped part of the elbow or drain hose with a torque of $1.35 \pm 0.15 \text{ N} \cdot \text{m}$. Wrap the end of the metal clamp with vinyl tape or bend the end inwards to avoid damaging the sealing pad.
- 4 Check for water leaks (see "To check for water leaks" [p 19]).
- 5 Wind the large sealing pad (= insulation) around the metal clamp and drain hose, and fix it with tie wraps. Start wrapping from the tightened part of the metal clamp so that the end of the metal clamp is wrapped twice.
- 6 Connect the drain piping to the drain hose.

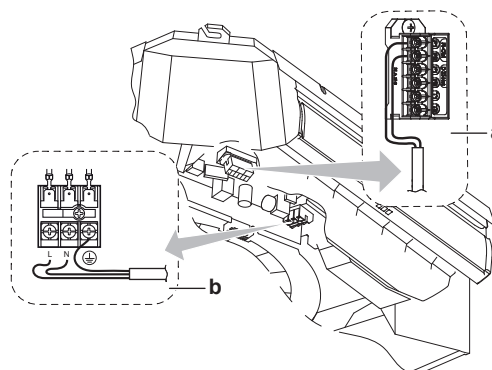
To check for water leaks

The procedure differs depending on whether installation of the system is already completed. When installation of the system is not yet completed, temporarily connect the user interface and power supply to the unit.

When installation of the system is not yet completed

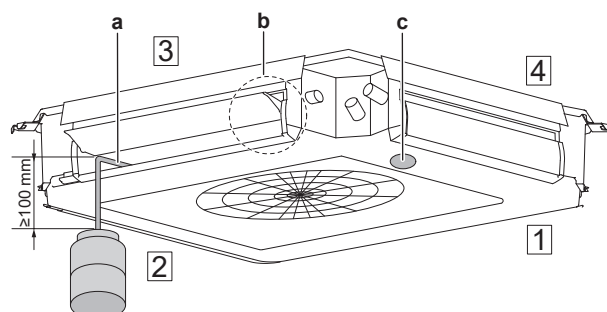
- 1 Temporarily connect electrical wiring.

- Remove the service cover. See "14.2 To connect the electrical wiring to the indoor unit" [p 21].
- Connect the user interface (a).
- Connect the power supply (b).
- Reattach the service cover. See "14.2 To connect the electrical wiring to the indoor unit" [p 21].



- a User interface terminal block
- b Power supply terminal block

- 2 Turn ON the power.
- 3 Start fan only operation (see the reference guide or the service manual of the user interface).
- 4 Gradually pour approximately 1 l of water through the air discharge outlet, and check for leaks.



- a Plastic water container with tube length $\geq 100 \text{ mm}$
- b Drain pump and float switch location
- c Service drain outlet (with rubber plug). Use this outlet to drain water from the drain pan.

- 5 Turn OFF the power.
- 6 Disconnect the electrical wiring.
 - Remove the service cover. See "14.2 To connect the electrical wiring to the indoor unit" [p 21].
 - Disconnect the power supply.
 - Disconnect the user interface.
 - Reattach the service cover. See "14.2 To connect the electrical wiring to the indoor unit" [p 21].

When installation of the system is already completed

- 1 Start cooling operation (see the reference guide or the service manual of the user interface).
- 2 Gradually pour approximately 1 l of water through the water inlet, and check for leaks (see "When installation of the system is not yet completed" [p 19]).

13 Piping installation

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" [p 20]. Only mechanical joints (e.g. braze+flare connections) that are compliant with the latest version of ISO14903 can be used.



NOTICE

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

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

Refrigerant piping diameter

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

Class	Pipe outer diameter (mm)	
	Liquid pipe	Gas pipe
50+71	Ø6.4	Ø12.7
100	Ø9.5	Ø15.9

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")			
15.9 mm (5/8")			

^(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)
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
15.9 mm (5/8")	17~20 mm	≥13 mm



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

13.2 Connecting the refrigerant piping



DANGER: RISK OF BURNING/SCALDING

13.2.1 To connect the refrigerant piping to the indoor unit



CAUTION

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

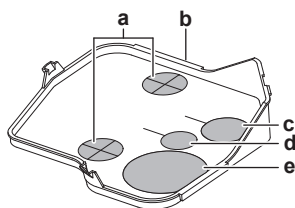


WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.

- Refrigerant piping can be connected from 3 directions.

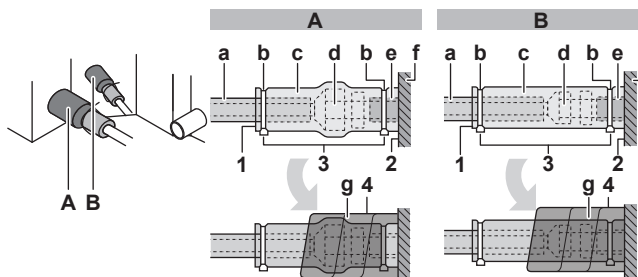
In case of **upward piping**, remove the pipe port cover and cut out the holes for piping. After leading the piping through the holes, reattach the pipe port cover.



- a Electric wiring
- b Pipe port cover
- c Gas
- d Liquid
- e Drain

For rear and right piping outlet, cut the piping opening before mounting the corner covers. See "15.1 To mount the corner cover" [p 22].

- 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:

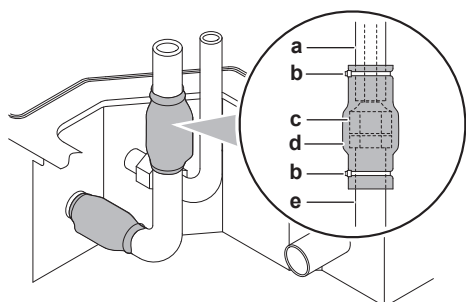


- A Gas piping
- B Liquid piping

- a Insulation material (field supply)
- b Tie wrap (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 Small sealing pads (accessory)

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

For **upward** and **right** piping, use the attached L-shaped piping, and insulate on both ends of the L-shaped piping.



- a Piping insulation material (field supply)
- b Tie wrap (accessory)
- c Flare nut connection
- d Insulation piece: Large (gas pipe) (accessory)
- e L-shaped piping (accessory)



INFORMATION

In addition, bend the liquid piping with a radius ≤ 40 mm using a pipe bender. If the attached L-shaped piping is NOT used or if the bending radius is > 40 mm, this may interfere with other piping or the drain hose.



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 provide full disconnection under overvoltage category III.



WARNING

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

14.1 Specifications of standard wiring components

Component		Class		
		50	71	100
Power supply cable	MCA ^(a)	0.5 A	0.6 A	1.1 A
	Voltage	220~240 V/220 V		
	Phase	1~		
	Frequency	50/60 Hz		
	Wire sizes	1.5 mm ² (3-core wire) H07RN-F (60245 IEC 66)		
Transmission wiring		For specifications, refer to the installation manual of the outdoor unit		

Component	Class		
	50	71	100
User interface cable	0.75 to 1.25 mm ² (2-core wire) H05RN-F (60245 IEC 57) Length ≤ 500 m		
Recommended circuit breaker	6 A		
Residual current device	Must comply with applicable legislation		

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

14.2 To connect the electrical wiring to the indoor unit



NOTICE

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

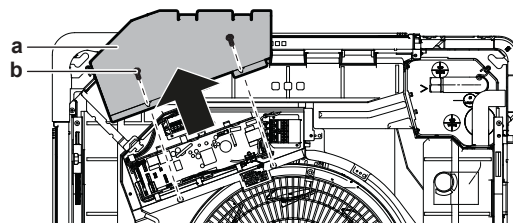
It is important to keep the power supply and the transmission wiring separated from each other. In order to avoid any electrical interference the distance between both wirings should ALWAYS be at least 50 mm.



NOTICE

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

- 1 Remove the service cover. Remove the 2 screws and slide the service cover out.



- a Service cover
- b Screw

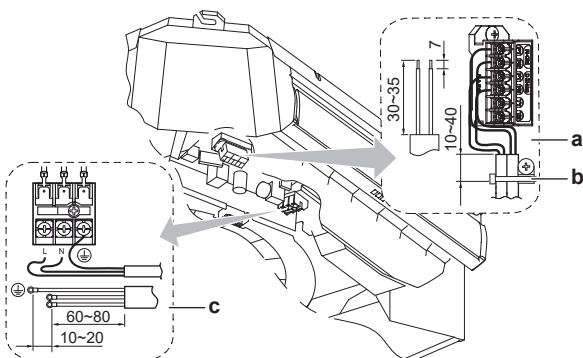
- 2 **User interface cable:** Route the cable through the frame and connect it to the terminal block (P1, P2).
- 3 **Transmission cable:** Route the cable through the frame and connect it to the terminal block (make sure the symbols F1 and F2 match with the symbols on the outdoor unit).
- 4 **Power supply cable:** Route the cable through the frame and connect it to the terminal block (L, N, earth).



- a Circuit breaker
- b Residual current device

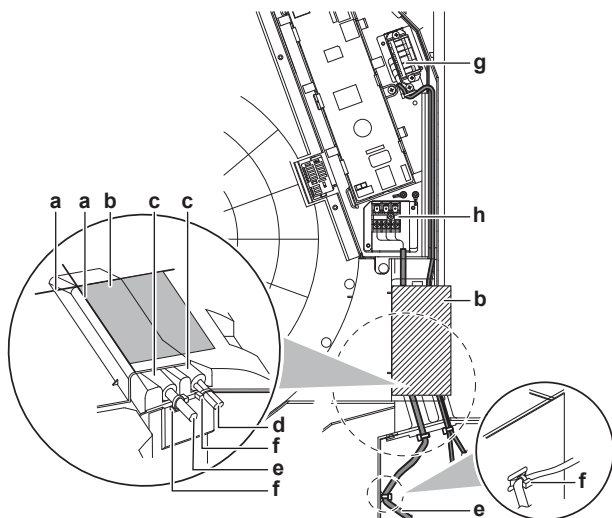
- 5 Fix the user interface cable and transmission cable with a tie wrap.

15 Finishing the indoor unit installation



- a Connection of user interface cable and transmission cable
- b Tie wrap (accessory)
- c Connection of power supply cable

- 6 Attach non-woven fabric (accessory) to avoid cables sticking out.
- 7 Divide the small sealing pad (accessory) and wrap each wiring.
- 8 Seal the space around the wiring with putty and insulating material (field supply).

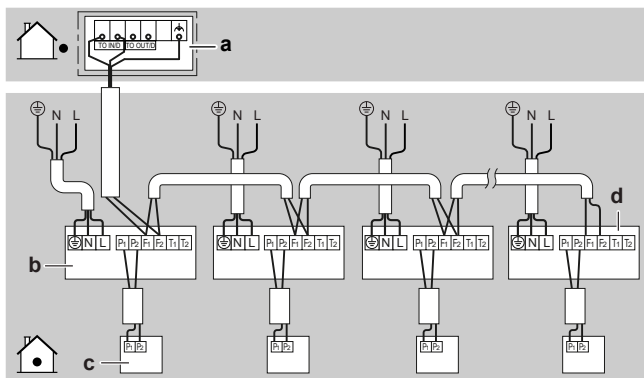


- a Sticking reference for non-woven fabric
- b Non-woven fabric (accessory)
- c Small sealing pad (accessory)
- d User interface cable and transmission cable
- e Power supply cable
- f Tie wrap (accessory)
- g Terminal block for user interface and transmission wiring
- h Terminal block for power supply wiring

- 9 Reattach the service cover. Slide the service cover back and fix with 2 screws.

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

Group control connection is NOT allowed.



CAUTION

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



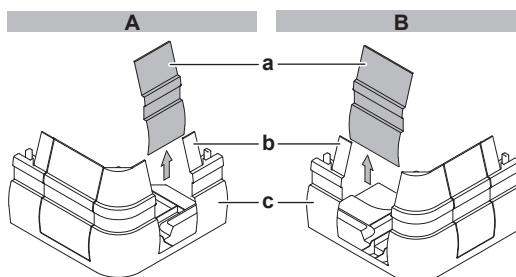
CAUTION

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

15 Finishing the indoor unit installation

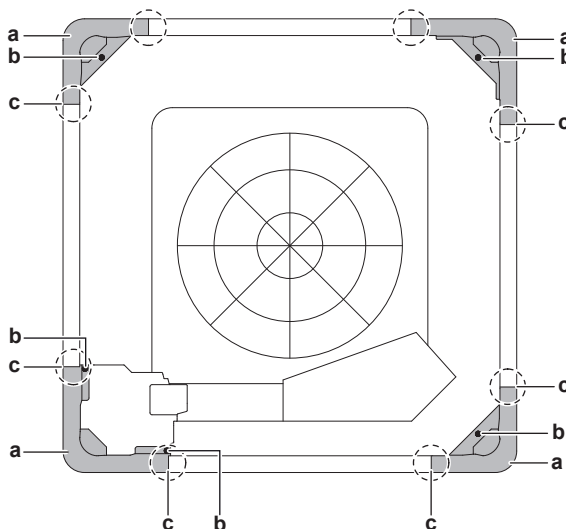
15.1 To mount the corner cover

For rear and right piping outlet, cut the piping opening before mounting the corner covers. Cut the opening carefully so the parts of the corner cover do not fall off when installed on the unit.



- A For rear piping outlet
- B For right piping outlet
- a Piping opening
- b Make sure this part does not fall off after cutting
- c Corner cover

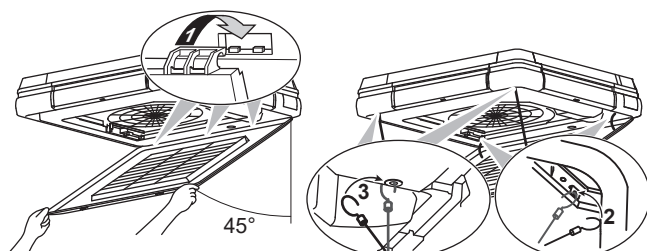
- 1 Attach the corner cover to the indoor unit.
- 2 Fix the corner cover with the 4 attached screws (accessory) while pressing the corner cover to make sure there is no gap between the corner cover and the indoor unit.



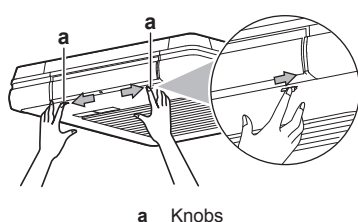
- a Corner cover
b Screw (accessory)
c Press this part to make sure there is no gap

15.2 To close the suction grille

- 1 Hook the suction grille onto the indoor unit and attach all 4 straps.



- 2 Close the suction grille by sliding the knobs away from the middle of the unit.



a Knobs

16 Commissioning



NOTICE

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

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



NOTICE

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

16.1 Checklist before commissioning

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

<input type="checkbox"/>	You read the complete installation and operation instructions, as described in the installer and user reference guide .
<input type="checkbox"/>	The indoor unit is properly mounted.
<input type="checkbox"/>	The outdoor unit is properly mounted.
<input type="checkbox"/>	Make sure drain piping is properly installed, insulated and drainage flows smoothly. Check for water leaks. Possible consequence: Condensate water might drip.
<input type="checkbox"/>	The refrigerant pipes (gas and liquid) are installed correctly and thermally insulated.
<input type="checkbox"/>	There are NO refrigerant leaks .

<input type="checkbox"/>	There are NO missing phases or reversed phases .
<input type="checkbox"/>	The system is properly earthed and the earth terminals are tightened.
<input type="checkbox"/>	The fuses or locally installed protection devices are installed according to this document, and have NOT been bypassed.
<input type="checkbox"/>	The power supply voltage matches the voltage on the identification label of the unit.
<input type="checkbox"/>	There are NO loose connections or damaged electrical components in the switch box.
<input type="checkbox"/>	There are NO damaged components or squeezed pipes on the inside of the indoor and outdoor units.
<input type="checkbox"/>	The stop valves (gas and liquid) on the outdoor unit are fully open.

16.2 To perform a test run



INFORMATION

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



NOTICE

Do NOT interrupt the test run.

17 Configuration

17.1 Field setting

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

- Ceiling height
- Air volume when thermostat control is OFF
- Time to clean air filter
- Thermostat sensor selection
- Thermostat differential changeover (if remote sensor is used)
- Automatic changeover differential
- Auto-restart after power failure
- Air discharge direction
- T1/T2 input setting



INFORMATION

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

Setting: Ceiling height

This setting must correspond with the actual distance to the floor and the capacity class.

17 Configuration

If the distance to the floor is (m)		Then ⁽¹⁾		
FXUA50+71	FXUA100	M	SW	—
≤2.7	≤3.2	13 (23)	0	01
2.7<x≤3.0	3.2<x≤3.6			02
3.0<x≤3.5	3.6<x≤4.0			03

Setting: Air volume when thermostat control is OFF

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

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

Setting: Thermostat sensor selection

This setting must correspond with how/if the user interface thermostat sensor is used.

When the user interface 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: Automatic changeover differential

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

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

Setting: Air discharge direction

Proceed as follows to change the air discharge setting (2-way or 3-way discharge).

If you want to change the air discharge setting to...		Then ⁽¹⁾		
		M	SW	—
4-way		13 (23)	1	01
3-way				02
2-way				03

⁽¹⁾ Field settings are defined as follows:

- M**: Mode number – **First number**: for group of units – **Number between brackets**: for individual unit
- SW**: Setting number
- : Value number
- : Default

⁽²⁾ Fan speed:

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

Setting: T1/T2 input setting

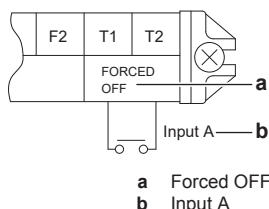
**WARNING**

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.



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

This setting must correspond with the needs of the user.

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

18 Technical data

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

18.1 Wiring diagram

18.1.1 Unified wiring diagram legend

For applied parts and numbering, refer to the wiring diagram on the unit. Part numbering is by Arabic numbers in ascending order for each part and is represented in the overview below by "*" in the part code.

Symbol	Meaning	Symbol	Meaning
	Circuit breaker		Protective earth
	Connection		Protective earth (screw)
	Connector		Rectifier
	Earth		Relay connector
	Field wiring		Short-circuit connector
	Fuse		Terminal
	Indoor unit		Terminal strip
	Outdoor unit		Wire clamp
	Residual current device		

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

Symbol	Meaning
A*P	Printed circuit board
BS*	Pushbutton ON/OFF, operation switch
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

⁽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

18 Technical data

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



ERC

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