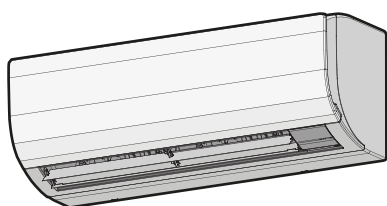




Installation and operation manual

Split system air conditioner



FAA71BUV1B
FAA100BUV1B

Installation and operation manual
Split system air conditioner

English

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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 and household 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

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" ▶ 12)



WARNING

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



CAUTION

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

Refrigerant piping installation (see "13 Piping installation" ▶ 16)



CAUTION

Piping MUST be installed according to instructions given in "13 Piping installation" ▶ 16]. Only mechanical joints (e.g. braze+flare connections) that are compliant with the latest version of ISO14903 can be used.



CAUTION

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



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

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" ▶ 17)



WARNING

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



WARNING

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



WARNING

ALWAYS use multicore cable for power supply cables.



WARNING

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

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 authorized installer and must comply with applicable legislation.

Units must be treated at a specialized 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 specialized 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 electric shock or fire. Contact your dealer.
- In case of accidental refrigerant leaks, make sure there are no naked flames. The refrigerant itself is entirely safe and non-toxic. R410A is a non-combustible refrigerant, and R32 is a mildly flammable refrigerant, but they will generate a toxic gas when they accidentally leak into a room where combustible air from fan heaters, gas cookers, etc. is present. Always have qualified service personnel confirm that the point of leakage has been repaired or corrected before resuming operation.

CAUTION

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

WARNING

This unit contains electrical and hot parts.

3 User safety instructions

WARNING

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

CAUTION

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

CAUTION

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

CAUTION

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

CAUTION

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

CAUTION

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

WARNING

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

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.

Be 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 electric shock and injury may result.

WARNING

Be careful with ladders when working in high places.

CAUTION

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

WARNING

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

About the refrigerant (see "[7.3 About the refrigerant](#)" [p 11])

WARNING: MILDLY FLAMMABLE MATERIAL

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

⚠ WARNING

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

⚠ WARNING

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

⚠ WARNING

R410A is a non-combustible refrigerant, and R32 is a mildly flammable refrigerant; they normally don't leak. If the refrigerant leaks in the room and comes into contact with fire from a burner, a heater, or a cooker, this may result in a fire (in case of R32), or the formation of a harmful gas.

Turn off any combustible heating devices, ventilate the room, and contact the dealer from where you purchased the unit.

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

Troubleshooting (see "8 Troubleshooting" ▶ 11)

⚠ 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, electric 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 electric shock or fire. Contact your dealer.
- In case of accidental refrigerant leaks, make sure there are no naked flames. The refrigerant itself is entirely safe and non-toxic. R410A is a non-combustible refrigerant, and R32 is a mildly flammable refrigerant, but they will generate a toxic gas when they accidentally leak into a room where combustible air from fan heaters, gas cookers, etc. is present. Always have qualified service personnel confirm that the point of leakage has been repaired or corrected before resuming operation.

**NOTICE**

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

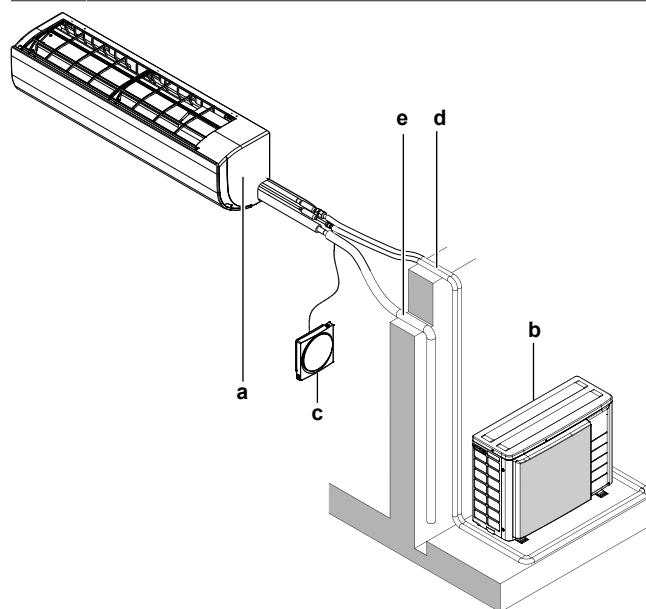
**NOTICE**

For future modifications or expansions of your system:

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

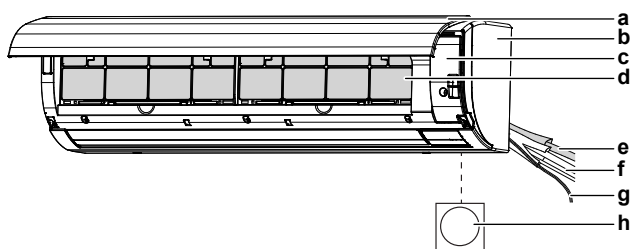
4.1 System layout**INFORMATION**

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



- a Indoor unit
- b Outdoor unit
- c User interface
- d Refrigerant piping + transmission cable
- e Drain pipe

5 User interface



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

Use the system in the following temperature and humidity ranges for safe and effective operation.

For combination with R410A outdoor unit, refer to the following table:

Outdoor units		Cooling	Heating
RZQ200	Outdoor temperature	-5~46°C DB	-15~15°C WB
	Indoor temperature	14~28°C WB	10~27°C DB
RZQG71~140	Outdoor temperature	-15~50°C DB	-20~15.5°C WB
	Indoor temperature	12~28°C WB	10~27°C DB

Outdoor units		Cooling	Heating
RZQSG71~140	Outdoor temperature	-15~46°C DB	-15~15.5°C WB
	Indoor temperature	14~28°C WB	10~27°C DB
Indoor humidity		≤80% ^(a)	—

^(a) To avoid condensation and water dripping out of the unit. If the temperature or the humidity is beyond these conditions, safety devices may be put in action and the air conditioner may not operate.

For combination with R32 outdoor unit, refer to the following table:

Outdoor units		Cooling	Heating
RZAG71~140	Outdoor temperature	-20~52°C DB	-20~24°C DB -20~18°C WB
	Indoor temperature	17~38°C DB 12~28°C WB	10~27°C DB
RZASG71~140	Outdoor temperature	-15~46°C DB	-15~21°C DB -15~15.5°C WB
	Indoor temperature	20~38°C DB 14~28°C WB	10~27°C DB
AZAS71+100	Outdoor temperature	-5~46°C DB	-15~21°C DB -15~15.5°C WB
	Indoor temperature	20~38°C DB 14~28°C WB	10~27°C DB
RZA200+250	Outdoor temperature	-20~46°C DB	-20~15°C WB
	Indoor temperature	14~28°C WB	10~27°C DB
ARXM71	Outdoor temperature	-10~46°C DB	-15~18°C WB
	Indoor temperature	14~28°C WB	10~30°C DB
Indoor humidity		≤80% ^(a)	—

^(a) To avoid condensation and water dripping out of the unit. If the temperature or the humidity is beyond these conditions, safety devices may be put in action and the air conditioner may not operate.

DB: Dry bulb

WB: Wet bulb

6.2 About operation modes



INFORMATION

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

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

6.2.1 Basic operation modes

The indoor unit can operate in various operation modes.

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

6.2.2 Special heating operation modes

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

6.2.3 Airflow direction

When. Adjust the airflow direction as desired.

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



CAUTION

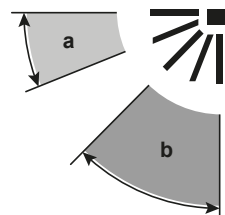
- ALWAYS use a user interface to adjust the angle of the flap. When the flap is swinging and you move it forcibly by hand, the mechanism will break.
- Be careful when adjusting the louvers. Inside the air outlet, a fan is rotating at high speed.

1 Vertical airflow

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

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

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



- a Cooling operation
b Heating operation



INFORMATION

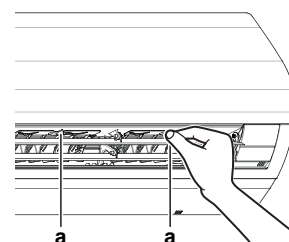
For setting procedure of the vertical airflow direction, see the reference guide or the manual of the used user interface.

2 Horizontal airflow

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

To adjust the louvers (vertical blades)

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



- a Knobs



INFORMATION

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

6.3 To operate the system



INFORMATION

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

7 Maintenance and service

7 Maintenance and service

7.1 Precautions for maintenance and service



NOTICE

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

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



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 outlet, exterior, front panel and air filter.



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 electric shock and injury may result.



WARNING

Be careful with ladders when working in high places.

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.

7.2 Cleaning the unit



CAUTION

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

7.2.1 To clean the air outlet and exterior



WARNING

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



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.

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

7.2.2 To clean the front panel



WARNING

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

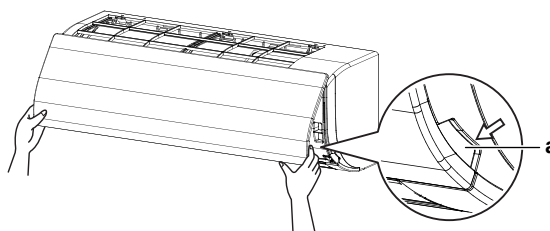


NOTICE

- 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.

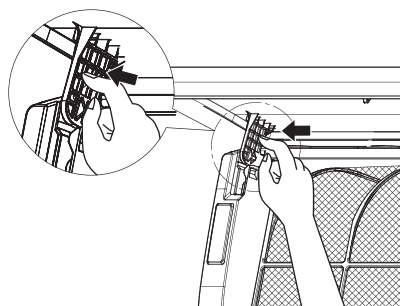
You can remove the front panel to clean it.

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

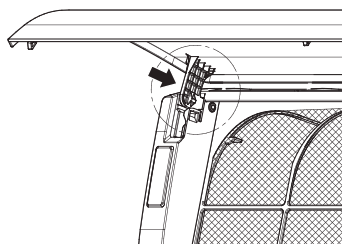


a Panel tab

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



- Clean the front panel. Wipe it with a soft cloth soaked in water by using only neutral detergent.
- Wipe panel with a dry soft cloth and let it dry up in the shade.
- Attach the front panel. Align the hooks of the front panel with the slots and push them all the way in.



- 6 Close the front panel slowly.

7.2.3 To clean the air filter



NOTICE

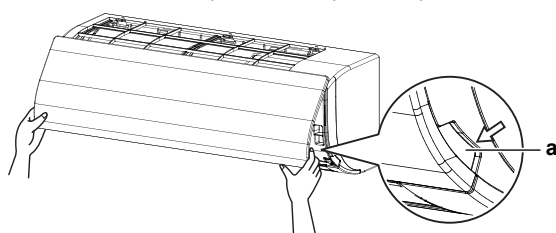
Do NOT use water of 50°C or higher. **Possible consequence:** Discoloration and deformation.

When to clean the air filter:

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

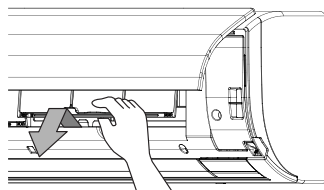
How to clean the air filter:

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

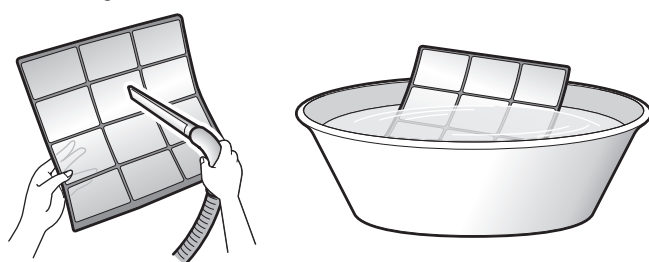


a Panel tab

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



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



- 4 **Dry the air filter in the shadow.**
- 5 **Reattach the air filter.** Replace the air filter as it was.
- 6 **Close the front panel.** Hold the front panel by the panel tabs on both sides and close it slowly.
- 7 Turn ON the power.
- 8 To remove warning screens, see the reference guide of the user interface.

7.3 About the refrigerant

This product contains fluorinated greenhouse gases. Do NOT vent gases into the atmosphere.

Refrigerant type: R32

Global warming potential (GWP) value: 675

Refrigerant type: R410A

Global warming potential (GWP) value: 2087.5



NOTICE

Applicable legislation on **fluorinated greenhouse gases** requires that the refrigerant charge of the unit is indicated both in weight and 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 R32 refrigerant (if applicable) in this unit is mildly flammable. Refer to the outdoor unit specifications for the type of refrigerant to be used.



WARNING

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



WARNING

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



WARNING

R410A is a non-combustible refrigerant, and R32 is a mildly flammable refrigerant; they normally don't leak. If the refrigerant leaks in the room and comes into contact with fire from a burner, a heater, or a cooker, this may result in a fire (in case of R32), or the formation of a harmful gas.

Turn off any combustible heating devices, ventilate the room, and contact the dealer from where you purchased the unit.

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

8 Troubleshooting

If one of the following malfunctions 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, electric 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.

9 Relocation

Malfunction	Measure
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).

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



WARNING: MILDLY FLAMMABLE MATERIAL

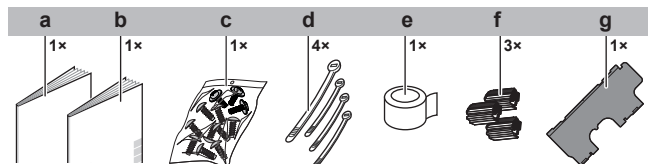
The R32 refrigerant (if applicable) in this unit is mildly flammable. Refer to the outdoor unit specifications for the type of refrigerant to be used.

- At delivery, the unit MUST be checked for damage. Any damage MUST be reported immediately to the claims agent of the carrier.
- Bring the packed unit as close as possible to its final installation position to prevent damage during transport.
- Unpack the indoor unit completely according to the instructions mentioned on the unpacking instructions sheet.

11.1.1 To remove the accessories from the indoor unit

1 Remove:

- the accessory bag located at the bottom of the package,
- the mounting plate attached to the back of the indoor unit.



- a Installation and operation manual
- b General safety precautions
- c Fixing screws M4x25L for the mounting plate (9x), securing screws M4x12L (2x for 71 class, 3x for 100 class)
- d Tie wraps (1 large, 3 small)
- e Insulation tape
- f Screws cover (for 100 class only)
- g Mounting plate

12 Unit installation



INFORMATION

If you are not sure how to open or close parts of the unit (front panel, electrical wiring box, front grille...) refer to the installer reference guide of the unit for opening and closing procedures.



WARNING

Installation shall be done by an installer, the choice of materials and installation shall comply with the applicable legislation. In Europe, EN378 is the applicable standard.

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

12.1.1 Installation site requirements of the indoor unit



INFORMATION

The sound pressure level is less than 70 dBA.

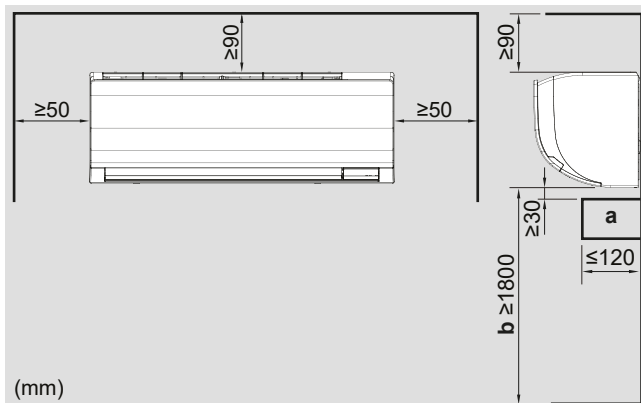


CAUTION

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

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

- **Wall insulation.** When conditions in the wall exceed 30°C and a relative humidity of 80%, or when fresh air is inducted into the wall, then additional insulation is required (minimum 10 mm thickness, polyethylene foam).
- **Wall strength.** Check whether the wall is strong enough to support the weight of the unit. If there is a risk, reinforce the wall before installing the unit.
- **Air flow.** Make sure nothing blocks the air flow.
- **Drainage.** Make sure condensation water can be evacuated properly.
- **Spacing.** Mind the following requirements:



- a Obstruction
b Minimum distance to the floor



NOTICE

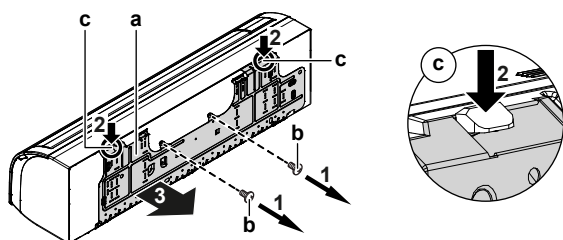
NEVER mount the indoor unit directly on the wall. Use the attached mounting plate for installation.

12.2 Mounting the indoor unit

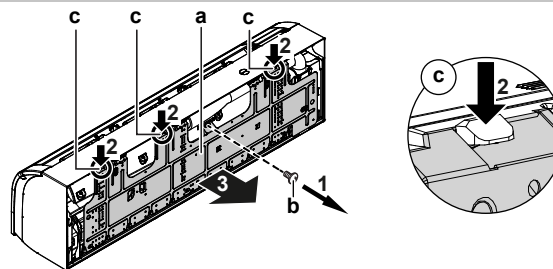
12.2.1 To install the mounting plate

- 1 Remove the mounting plate from the unit.
- Remove 2 screws from class 71 or 1 screw from class 100.
 - Push the knobs in the direction of the arrow.
 - Remove the mounting plate.

A

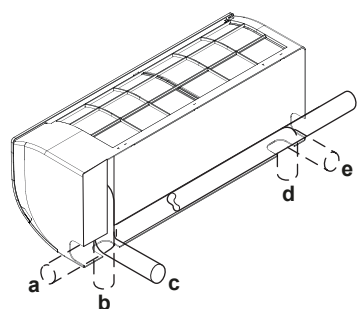


B



- A Class 71
B Class 100
a Mounting plate
b Screw
c Knob

- 2 Choose position for piping (for bottom or side piping see "12.2.3 To remove the pipe port cover" [▶ 14]):



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

- 3 Attach the mounting plate on the wall and install it temporarily.
 - 4 Level the mounting plate (use tabs on the mounting plate).
 - 5 Mark the centers of the drilling points on the wall using a tape measure. Position the end of tape measure at symbol ">".
 - 6 Finish the installation by securing the mounting plate on the wall:
- When using M4×25L screws (accessory), install evenly at least 4 screws on each side.
 - When using bolts (**Example:** for concrete wall): use M8~M10 bolts (field supply) one for each side.

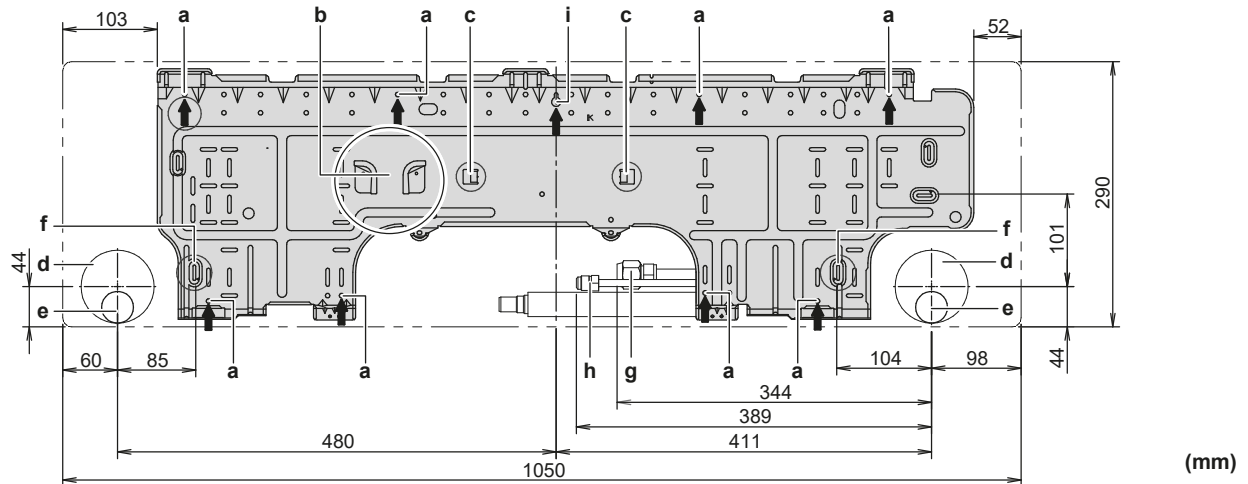


INFORMATION

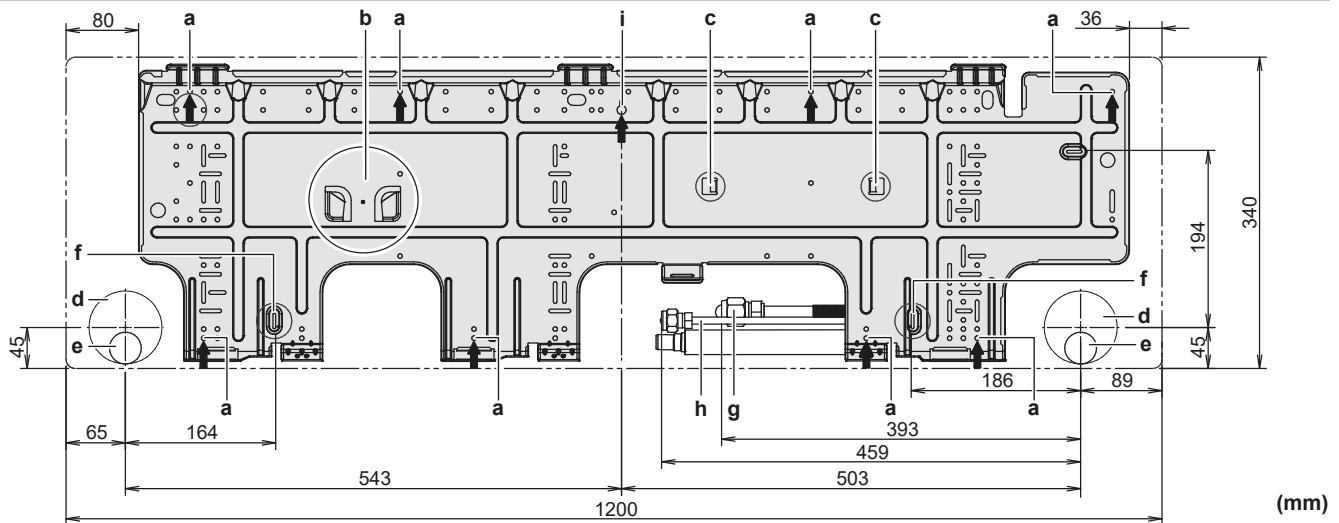
The removed pipe port cover can be kept in the mounting plate pocket.

12 Unit installation

A



B



- A Pattern for installation with mounting plate for class 71
 B Pattern for installation with mounting plate for class 100
 a Recommended fixing spots
 b Pocket for the pipe port cover
 c Tabs for placing a spirit level
 d Through-the-wall hole Ø80 mm
 e Drain hose position
 f Position for the tape measure at symbol "▷"
 g Gas pipe end
 h Liquid pipe end
 i Temporary fixing hole

12.2.2 To drill a wall hole



CAUTION

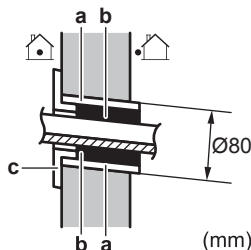
For walls containing a metal frame or a metal board, use a wall embedded pipe and wall cover in the feed-through hole to prevent possible heat, electrical shock, or fire.



NOTICE

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

- 1 Drill a 80 mm large feed-through hole in the wall with a downward slope towards the outside.
- 2 Insert a wall embedded pipe into the hole.
- 3 Insert a wall cover into the wall pipe.



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

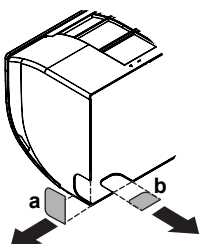
- 4 After completing wiring, refrigerant piping and drain piping, do NOT forget to seal the gap with putty.

12.2.3 To remove the pipe port cover



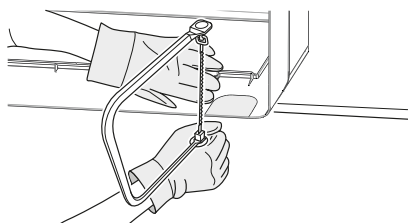
INFORMATION

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

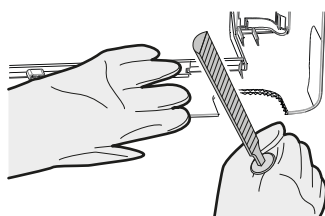


- a Cut off for side piping
- b Cut off for bottom piping

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



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

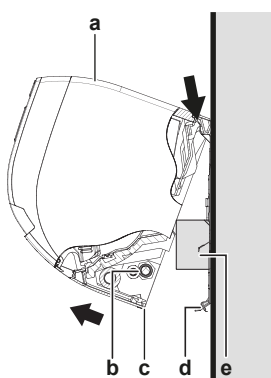


NOTICE

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

12.2.4 To hook the unit on the mounting plate

- 1 Remove the front panel.
- 2 Set the indoor unit on the mounting plate hooks. Use the "△" marks as a guide.
- 3 Place piece of packing material for support.

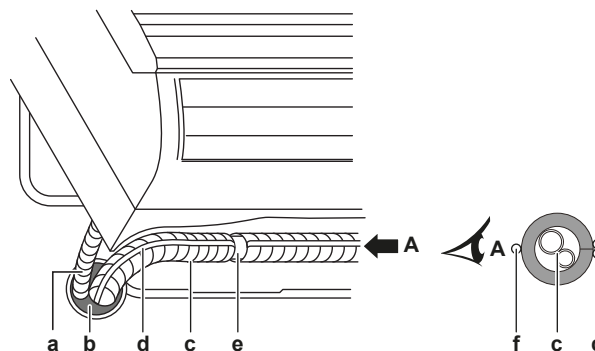


- a Front grille
- b Refrigerant piping
- c Tab 2x
- d Mounting plate (accessory)
- e Piece of packing material

12.2.5 To pass the pipes through the wall hole

- 1 Connect the drain piping "12.2.6 To provide drainage" [p 15], the refrigerant piping "13 Piping installation" [p 16] and the electrical wiring "14 Electrical installation" [p 17].

- 2 Shape the refrigerant pipes along the pipe path marking on the mounting plate.
- 3 Fix the electrical wiring and the refrigerant pipes together using vinyl tape (field supply).

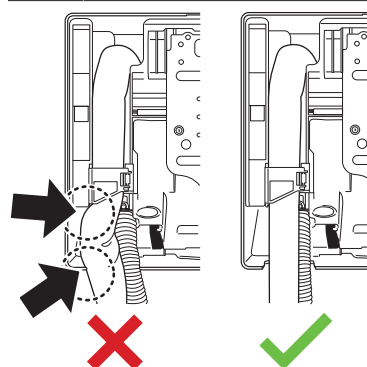


- a Drain hose
- b Wall hole
- c Refrigerant piping
- d Electrical wiring
- e Vinyl tape (field supply)
- f Power supply wiring
- g Transmission wiring and user interface wiring



NOTICE

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



- 4 Pass the drain hose and refrigerant pipes through the wall hole.
- 5 When the complete installation is finished (drain piping "12.2.6 To provide drainage" [p 15], the refrigerant piping "13 Piping installation" [p 16] and the electrical wiring "14 Electrical installation" [p 17]), fix the indoor unit on the mounting plate "15.1 To fix the unit on the mounting plate" [p 19].

12.2.6 To provide drainage



INFORMATION

Make sure to check and follow the **General guidelines** for draining in the installer reference guide of the indoor unit.

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

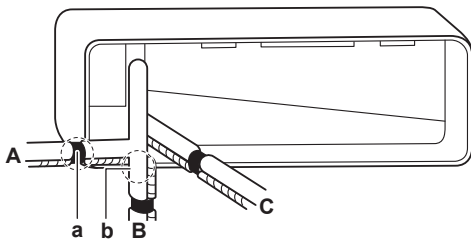


INFORMATION

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

- 1 Attach the drain hose with adhesive vinyl tape to the bottom of the refrigerant pipes.
- 2 Wrap the drain hose and the refrigerant pipes together using insulation tape.

13 Piping installation



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

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

i INFORMATION

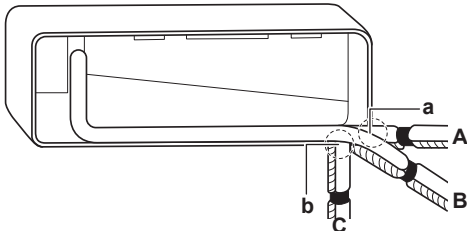
The factory default is right-side piping. For left-side piping, remove the piping from the right side and install it on the left side.

- 1 Remove the insulation fixing screw on the right side and remove the drain hose.
- 2 Remove the drain plug on the left side and attach it to the right side.

! NOTICE

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

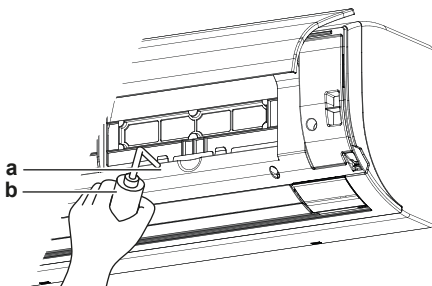
- 3 Insert the drain hose on the left side and do not forget to tighten it with the fixing screw; otherwise water leakage may occur.
- 4 Attach the drain hose to the refrigerant piping bottom side using adhesive vinyl tape.



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

To check for water leaks

- 1 Remove the air filters (see "7.2.3 To clean the air filter" ▶ 11).
- 2 Gradually pour approximately 1 l of water in the drain pan, and check for water leaks.



- a Drain pan
- b Plastic container

- 3 Reattach the air filters (see "7.2.3 To clean the air filter" ▶ 11).

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" ▶ 16. 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:

Pipe outer diameter (mm)	
Liquid pipe	Gas pipe
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)	
9.5 mm (3/8")	Annealed (O)	≥0.8 mm	
15.9 mm (5/8")	Annealed (O)		

^(a) Depending on the applicable legislation and the maximum working pressure of the unit (see "PS High" on the unit name plate), larger piping thickness might be required.

13.1.2 Refrigerant piping insulation

- Use polyethylene foam as insulation material:
 - with a heat transfer rate between 0.041 and 0.052 W/mK (0.035 and 0.045 kcal/mh°C)
 - with a heat resistance of at least 120°C
- Insulation thickness

Pipe outer diameter (Ø _p)	Insulation inner diameter (Ø _i)	Insulation thickness (t)
9.5 mm (3/8")	12~15 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.

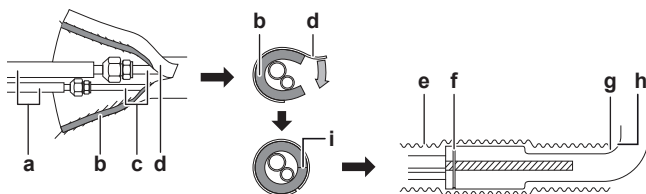


WARNING: MILDLY FLAMMABLE MATERIAL

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

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

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



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



NOTICE

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

14 Electrical installation



DANGER: RISK OF ELECTROCUTION



WARNING

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



WARNING

ALWAYS use multicore cable for power supply cables.



WARNING

Use an all-pole disconnection type breaker with at least 3 mm between the contact point gaps that 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	Specification
Interconnection cable (indoor↔outdoor)	4-core cable 1.5 mm ² ~2.5 mm ² and applicable for 220~240 V H05RN-F (60245 IEC 57) ^(a)
User interface cable	Vinyl cords with 0.75 to 1.25 mm ² sheath or cables (2-core wires) H03VV-F (60227 IEC 52) Maximum 500 m

^(a) In case the conduit pipes are not used, use H07RN-F (60245 IEC 66).

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.

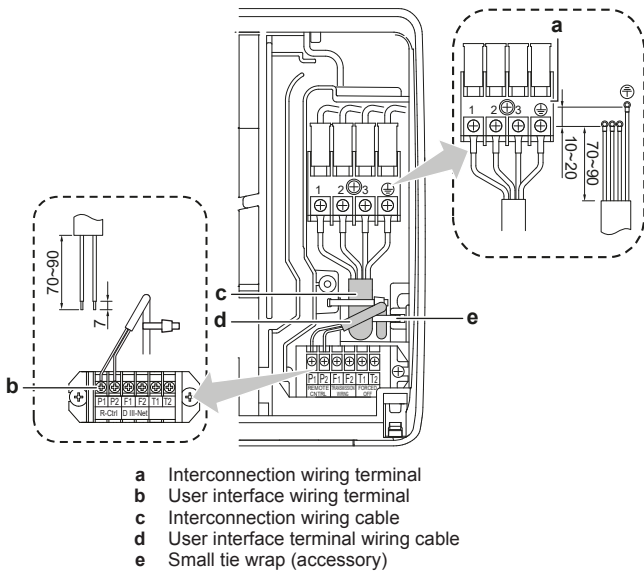


NOTICE

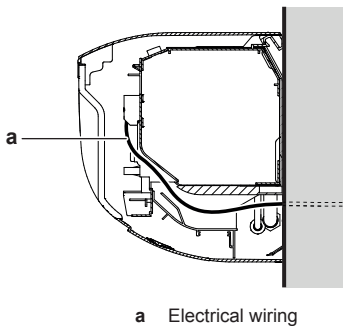
Be sure to keep the power line and transmission line apart from each other. Transmission wiring and power supply wiring may cross, but may **NOT** run parallel.

- 1 Remove the service cover and shield plate.
- 2 **User interface cable:** Connect the cable to the terminal block (symbols P1, P2).
- 3 **Interconnection cable** (indoor↔outdoor): Route the cable through the frame, connect the cable to the terminal block (make sure the numbers match with the numbers on the outdoor unit, and connect the earth wire), and fix the cable with a cable tie.
- 4 Seal all gaps with a sealing material (field supply) to prevent small animals from entering the system.
- 5 Reattach the shield plate and the service cover.

14 Electrical installation



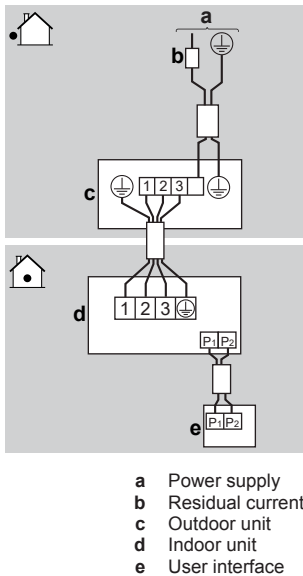
Electrical wiring route:



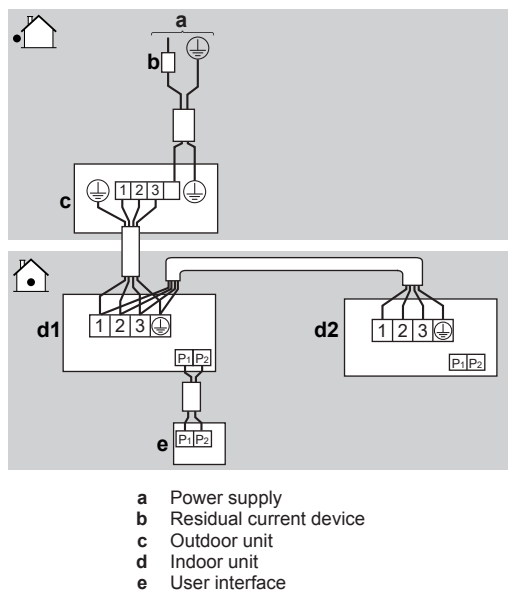
Complete system wiring example

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

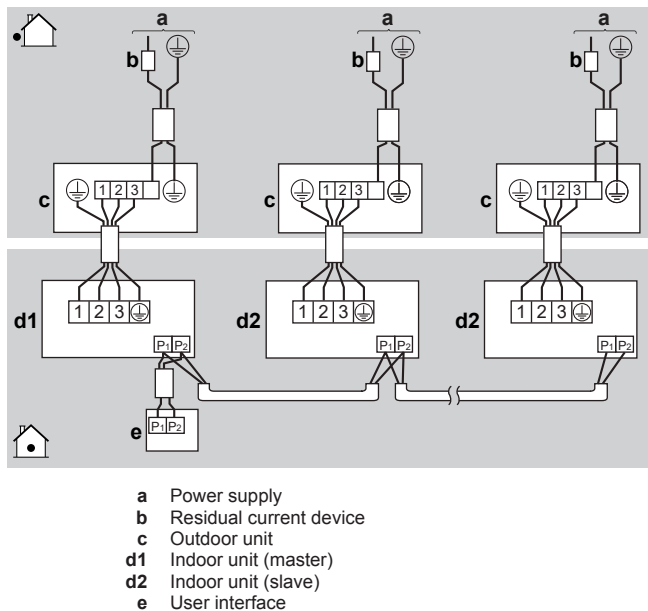
Pair type: 1 remote controller controls 1 indoor unit (standard)



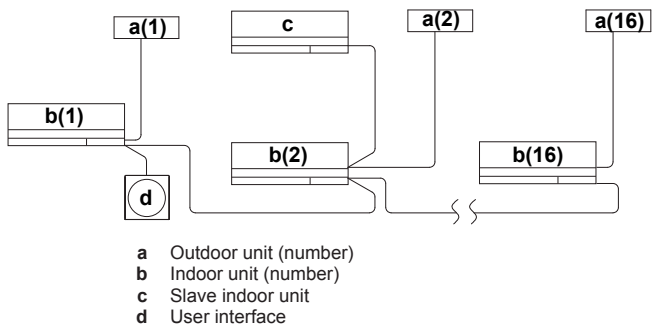
Simultaneous operation system: 1 user interface controls 2 indoor units (2 indoor units operates equally)



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

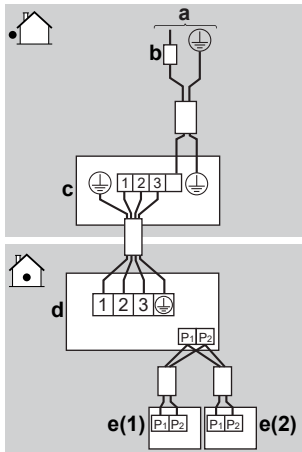


- When using a pair type system as a master system for simultaneous multiple unit operation, you may carry out simultaneous start/stop (group) control up to 16 units with 1 remote controller. (All indoor units operate according to the user interface)
- The thermistor reading of room temperature is effective only for the indoor unit connected to the user interface.



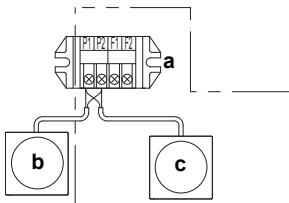
2 remote controllers control: 2 remote controllers control 1 indoor unit.

15 Finishing the indoor unit installation



- a Power supply
- b Residual current device
- c Outdoor unit
- d Indoor unit
- e User interface

- 1 Remove the service cover.
- 2 Lay crossover between the terminals (P1, P2) inside the control box for the remote controller (there is no polarity). For simultaneous operation system, be sure to connect the user interface to the master unit.



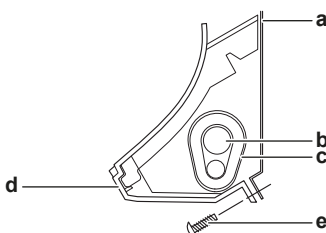
- a Terminal block (X1M) (Master unit)
- b User interface (MAIN)
- c User interface (SUB)

- 3 When using 2 user interfaces, one must be set to "MAIN" and the other to "SUB". For setting refer to the installation manual of the connected user interface.

15 Finishing the indoor unit installation

15.1 To fix the unit on the mounting plate

- 1 Remove the piece of packing material.
- 2 Press the bottom frame of the unit with both hands to set it on the bottom hooks of the mounting plate. Make sure that the wires do NOT get squeezed or caught anywhere.
- 3 Press the bottom edge of the indoor unit with both hands until it is firmly caught by the mounting plate hooks.
- 4 Secure the indoor unit to the mounting plate using indoor unit fixing screws M4×12L (2 for class 71, 3 for class 100) (accessory).



- a Mounting plate (accessory)
- b Refrigerant piping
- c Insulation tape
- d Bottom frame
- e Screw M4×12L (accessory) 2 for class 71, 3 for class 100

- 5 Re-install the front grille and front panel.

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

After the installation of the unit, first check the items listed below. Once all checks are fulfilled, the unit must be closed. Power-up the unit after it is closed.

<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.

17 Configuration

16.2 To perform a test run



INFORMATION

For the test run procedure, see the reference guide or the service manual of the used user interface.



NOTICE

Do NOT interrupt the test run.

17 Configuration

17.1 Field setting

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

- Airflow rate increase mode
- Airflow rate when thermostat control is OFF
- Time to clean air filter
- Indoor unit number of simultaneous operation system
- Simultaneous operation system individual setting
- Computerised control (forced OFF and ON/OFF operation)



INFORMATION

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

Setting: Airflow rate increase mode

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

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

Setting: Airflow rate 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 airflow rate speed:

If you want...		Then ⁽¹⁾		
		M	SW	—
Fan operation during thermostat OFF (cooling/heating operation)	Normal	11 (21)	2	01
	Stop			02
During thermostat OFF at cooling operation	LL ⁽²⁾	12 (22)	6	01
	Setup volume ⁽²⁾			02
	OFF			03
	Monitoring 1 ⁽²⁾			04
	Monitoring 3 ⁽²⁾			05
During thermostat OFF at heating operation	LL ⁽²⁾	12 (22)	3	01
	Setup volume ⁽²⁾			02
	OFF			03
	Monitoring 1 ⁽²⁾			04
	Monitoring 2 ⁽²⁾			05

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

Setting: Indoor unit number of simultaneous operation system

For simultaneous operation system mode made following field setting:

If the system mode is...	Then ⁽¹⁾		
	M	SW	—
Pair (1 unit)	11 (21)	0	01
Simultaneous (2 units)			02
Simultaneous (3 units)			03

When using in **simultaneous operation** system mode, refer to "simultaneous operation system individual setting" section to set master and slave units separately.

When using **wireless remote controllers**, wireless remote controller address setting is necessary. Refer to the installation manual attached to the wireless remote controller for setting instructions.

Setting: Simultaneous operation system individual setting

Perform the following procedure when setting the master and slave unit separately.

- 1 Change setting:

If you want...	Then ⁽¹⁾		
	M	SW	—
Unified setting	11 (21)	1	01
Individual setting			02

- 2 Perform field setting for the master unit.

⁽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 using the fan speed button on the user interface.
- **Monitoring 1, 2, 3**: The fan is OFF, but runs for a short time every 6 minutes to detect the room temperature by **LL** (Monitoring 1), **L** (Monitoring 2) or **Setup volume** (Monitoring 3).

- 3 Turn off main power supply.
- 4 Detach user interface from the master unit and connect it to the slave unit.

Turn on the main power supply switch and set individual setting.

- 5 Perform field setting for slave unit.
- 6 Turn off the main power supply.
- 7 If there is more than one slave unit, repeat setting for each
- 8 Detach user interface from the slave unit, and reattach to the master unit.



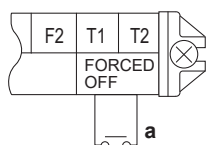
INFORMATION

- You do not need to rewire the user interface from the master unit if the optional remote controller for slave unit is used. However, remove the wires attached to the user interface terminal board of the master unit.
- After the slave unit setting, remove the user interface wiring, and rewire the user interface from the master unit.
- The unit does not operate properly when two or more user interfaces are attached to the unit in the simultaneous operation system mode.

Setting: Computerised control (forced OFF and ON/OFF operation)

Wire specifications and how to perform wiring

Connect input from outside to terminals T1 and T2 of the terminal block for user interface (there is no polarity).



a Input A

Wire specification	
Wire specification	Sheathed vinyl cord or cable (2 wire)
Gauge	0.75~1.25 mm ²
External terminal	Contact that can ensure the minimum applicable load of 15 V DC, 10 mA.

Actuation

Forced OFF	ON/OFF operation
Input „ON“ stops operation (impossible by user interface)	a) Input OFF → ON Result: turns the unit ON
Input OFF enables control by user interface	a) Input ON → OFF Result: Turns the unit OFF

How to select FORCED OFF and ON/OFF OPERATION

- 1 Turn on the power and then use the user interface to select operation.
- 2 Change setting:

If you want...	Then ⁽¹⁾		
	M	SW	—
Forced OFF	12 (22)	1	01
ON/OFF operation			02

⁽¹⁾ Field settings are defined as follows:

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

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
		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

18 Technical data

Symbol	Meaning
FG*	Connector (frame ground)
H*	Harness
H*P, LED*, V*L	Pilot lamp, light emitting diode
HAP	Light emitting diode (service monitor green)
HIGH VOLTAGE	High voltage
IES	Intelligent eye sensor
IPM*	Intelligent power module
K*R, KCR, KFR, KHuR, K*M	Magnetic relay
L	Live
L*	Coil
L*R	Reactor
M*	Stepper motor
M*C	Compressor motor
M*F	Fan motor
M*P	Drain pump motor
M*S	Swing motor
MR*, MRCW*, MRM*, MRN*	Magnetic relay
N	Neutral
n=*, N=*	Number of passes through ferrite core
PAM	Pulse-amplitude modulation
PCB*	Printed circuit board
PM*	Power module
PS	Switching power supply
PTC*	PTC thermistor
Q*	Insulated gate bipolar transistor (IGBT)
Q*C	Circuit breaker
Q*DI, KLM	Earth leak circuit breaker
Q*L	Overload protector
Q*M	Thermo switch
Q*R	Residual current device
R*	Resistor
R*T	Thermistor
RC	Receiver
S*C	Limit switch
S*L	Float switch
S*NG	Refrigerant leak detector
S*NPH	Pressure sensor (high)
S*NPL	Pressure sensor (low)
S*PH, HPS*	Pressure switch (high)
S*PL	Pressure switch (low)
S*T	Thermostat
S*RH	Humidity sensor
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

Symbol	Meaning
V*R	Diode bridge, Insulated-gate bipolar transistor (IGBT) power module
WRC	Wireless remote controller
X*	Terminal
X*M	Terminal strip (block)
Y*E	Electronic expansion valve coil
Y*R, Y*S	Reversing solenoid valve coil
Z*C	Ferrite core
ZF, Z*F	Noise filter



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