

Installation and operation manual

VRV system air conditioner



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U – Sicherheits-Konformitätserklärung
E – Déclaration de conformité de sécurité
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Machinery 2006/42/EC**

Electromagnetic Compatibility 2014/30/EU*

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01 Note*

11 Information*

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05 Nota*

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Ostend, 1st of March 2023 Zandvoordestraat 300, B-8400 Oostende, Belgium

4P686644-5B

UKCA - Safety declaration of conformity

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

FXHA32AVEB8, FXHA50AVEB8, FXHA63AVEB8, FXHA100AVEB8,

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:

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1 About the documentation

1.1 About this document



WARNING

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

Target audience

Authorised installers + end users



INFORMATION

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

Documentation set

This document is part of a documentation set. The complete set consists of:

- General safety precautions:
 - Safety instructions that you must read before installing
 - Format: Paper (in the box of the indoor unit)
- Indoor unit installation and operation manual:
 - Installation and operation instructions
 - Format: Paper (in the box of the indoor unit)
- Installer and user reference guide:
 - $\, \bullet \,$ Preparation of the installation, good practices, reference data,...
 - Detailed step-by-step instructions and background information for basic and advanced usage
 - Format: Digital files on https://www.daikin.eu. Use the search function Q to find your model.

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

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

Technical engineering data

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

2 Specific installer safety instructions

Always observe the following safety instructions and regulations.

General



WARNING

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

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

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



WARNING

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



CAUTION

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

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



WARNING

Keep any required ventilation openings clear o obstructions.



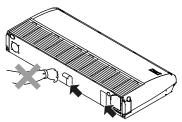
CAUTION

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



CAUTION

Do NOT remove the (milky white) tape from the exterior of the indoor unit. Removing the tape may cause an electric shock or a fire.



Refrigerant piping installation (see "13 Piping installation" [> 19])



CAUTION

Piping MUST be installed according to instructions given in "13 Piping installation" [> 19]. Only mechanical joints (e.g. braze+flare connections) that are compliant with the latest version of ISO14903 can be used.



CAUTION

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

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



WARNING

ALWAYS use multicore cable for power supply cables.



WARNING

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



WARNING

- If the power supply has a missing or wrong N-phase, equipment might break down.
- Establish proper earthing. Do NOT earth the unit to a utility pipe, surge absorber, or telephone earth. Incomplete earthing may cause electrical 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, 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 provides full disconnection under overvoltage category III.



WARNING

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



CAUTION

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



CAUTION

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

FXHA-A VRV system air conditioner 3P668115-5E – 2022.11

3 User safety instructions

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



WARNING

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



a Fire alarm input signal (potential free contact)

2.1 Instructions for equipment using R32 refrigerant



WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.



WARNING

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



WARNING

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



WARNING

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



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.



WARNING

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



CAUTION

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



CAUTION

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



NOTICE

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

2.1.1 Installation space requirements



CAUTION

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



WARNING

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



NOTICE

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

For the user

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.

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.

- 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:



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This means that electrical and electronic products may NOT be mixed with unsorted household waste. Do NOT try to dismantle the system yourself: dismantling the system, treatment of the refrigerant, of oil and of other parts MUST be done by an authorised installer and MUST comply with applicable legislation.

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

Batteries are marked with the following symbol:



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

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

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

3.2 Instructions for safe operation

- 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.



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.

DAIKIN FXHA-A Installation and operation manual VRV system air conditioner 7

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.



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.



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" [▶ 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.



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.

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.



MARNING

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.



MARNING

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.

About the system



WARNING

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



WARNING

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

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



NOTICE

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



NOTICE

For future modifications or expansions of your system:

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

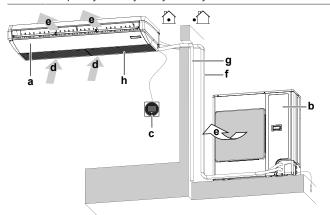
VRV system air conditioner 3P668115-5E - 2022.11

4.1 System layout



INFORMATION

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



- a Indoor unit
- **b** Outdoor unit
- c User interface
- d Suction air
- e Discharge air
- f Refrigerant piping + 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 benzine, thinner, chemical dust cloth, etc. The panel may get discoloured or the coating peeled off. If it is heavily dirty, soak a cloth in water-diluted neutral detergent, squeeze it well and wipe the panel clean. Wipe it with another dry cloth.



NOTICE

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



NOTICE

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

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

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

6 Operation

6.1 Operation range



INFORMATION

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

6.2 About operation modes



INFORMATION

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

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

6.2.1 Basic operation modes

The indoor unit can operate in various operation modes.

lcon	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.
A 💥	Auto. In Auto mode, the indoor unit automatically switches between heating and cooling mode, as required by the setpoint.
A A	

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:
		6/8
		The system will resume normal operation after approximately 6 to 8 minutes.

Danamintian

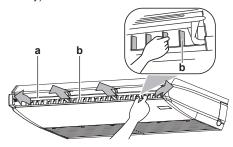
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Operation	Description		
Hot start	During hot start, the indoor unit fan will stop operation, and the following icon will appear on the home screen:		
	6/8 X		

6.2.3 Adjusting the airflow direction

The following airflow directions can be set:

- Up and down direction (horizontal blades): Using user interface (fixed position or swing)
- Left and right direction (vertical blades): Manually (fixed position only)



- a Horizontal blades (up and down direction)
- b Vertical blades (left and right direction)

Up and down airflow direction setting



INFORMATION

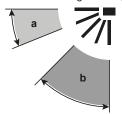
For setting procedure of the airflow direction, see the reference guide or the manual of the used user interface.

When the operation stops, the horizontal blades at the air outlet close automatically.

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.	7/1

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



- a Cooling operation
- **b** Heating operation



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.



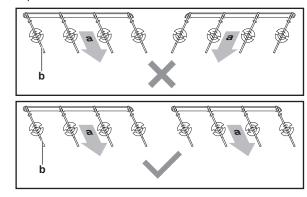
NOTICE

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

Left and right airflow direction setting

The left and right airflow direction can be set only manually in fixed position.

Make adjustments only after stopping the horizontal blade in order to avoid injury and damage to the appliance. Set both groups of vertical blades in a way so airflows do not cross; otherwise condensate may drip



- a Airflow
- **b** Vertical blades

6.3 To operate the system



INFORMATION

For setting of the operation mode, airflow direction 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.

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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.



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.



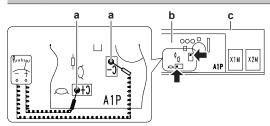
NOTICE

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

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

<u>^</u>

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.

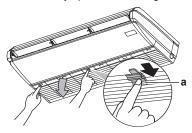
7.2.2 To clean the air filter

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).

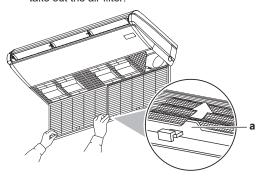
How to clean the air filter:

1 Open the suction grille. Simultaneously slide all knobs (2 for class 32, 3 for class 50~100) in the direction of the arrow and carefully open the suction grille.



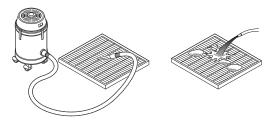
a Knob

2 Remove the air filter. Push up the filter knobs at 2 places and take out the air filter.



a Filter knob

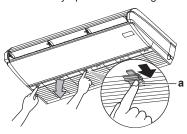
3 Clean the air filter. Use a vacuum cleaner or wash with water. If the air filter is very dirty, use a soft brush and neutral detergent.



- 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.

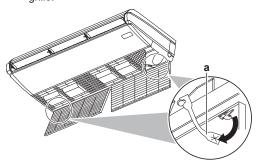
7.2.3 To clean the suction grille

1 Open the suction grille. Simultaneously slide all knobs (2 for class 32, 3 for class 50~100) in the direction of the arrow and carefully open the suction grille.

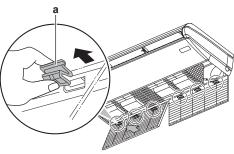


a Knob

2 Remove the suction grille. While keeping the suction grille open, unhook the straps from the indoor unit. Then remove the clips (2 for class 32, 3 for class 50~100) holding the suction grille



a Strap



a Clip

- 3 Remove the air filter. Refer to "7.2.2 To clean the air filter" [> 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" [> 12].

6 Reattach the suction grille and close it. (steps 2 and 1 in reverse order).



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

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



WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.



WARNING

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



WARNING

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



WARNING

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



NOTICE

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

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

Contact your installer for more information.

7.3.1 About the refrigerant leakage sensor



WARNING

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

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8 Troubleshooting



NOTICE

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



NOTICE

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



INFORMATION

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

In case of detection when the unit is operating

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

In case of detection when the unit is in standby

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

False detection check

- 1 The fan starts turning on the lowest setting.
- 2 The user interface displays error "A0-13" and emits an alarm sound. The status indicator blinks.
- 3 The sensor checks if a refrigerant leakage or misdetection occurred.
- No refrigerant leakage detected. Result: The system resumes normal operation after approximately 2 minutes.
- Refrigerant leakage detected. Result:
- 1 The user interface displays error "A0-11" and emits an alarm sound. The status indicator blinks.
- 2 Contact your dealer immediately. For more information, see the installation manual of the outdoor unit.



INFORMATION

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



INFORMATION

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

8 Troubleshooting

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



WARNING

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

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

The system MUST be repaired by a qualified service person.

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

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



INFORMATION

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

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

9 Relocation

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

10 Disposal



NOTICE

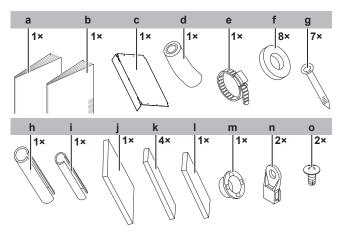
Do NOT try to dismantle the system yourself: dismantling of the system, treatment of the refrigerant, oil and other parts MUST comply with applicable legislation. Units MUST be treated at a specialised treatment facility for reuse, recycling and recovery.

For the installer

11 About the box

11.1 Indoor unit

11.1.1 To remove the accessories from the indoor unit



- General safety precautions
- Indoor unit installation and operation manual
- Paper pattern for installation (part of the packing)
- Drain hose
- Metal clamp
- Washer for hanger bracket
- Tie wraps
- Insulation piece: Large (gas pipe)
 Insulation piece: Small (liquid pipe)
- Large sealing pad
- Sealing material for gaps around pipes and cables
- Small sealing pad
- m Resin bushing
- n Wiring fixture Screw for wiring fixture

Unit installation

12.1 Preparing the installation site

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



12

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).

Installation site requirements of the 12.1.1 indoor unit

Minimum floor area requirements



FXHA-A

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 obstructions.

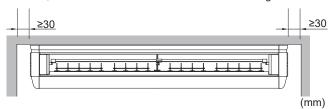


NOTICE

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

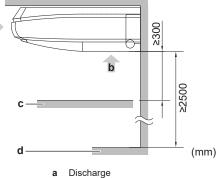
- Paper pattern for installation (accessory). Use the paper pattern when selecting the installation location. It contains the dimensions of the unit and the locations of suspension bolts, piping outlet, drain piping outlet and electric wiring inlet.
- Spacing. Mind the following requirements:

Minimum distance to the wall: 30 mm left and right of the unit, however, ≥200 mm is recommended for easier servicing.



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" [▶ 23].



- b Suction

- c Obstacle
- d Floor



INFORMATION

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

12.2 Mounting the indoor unit

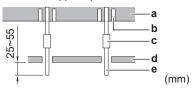
12.2.1 Guidelines when installing the indoor unit



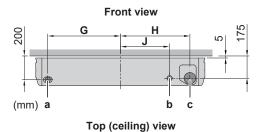
INFORMATION

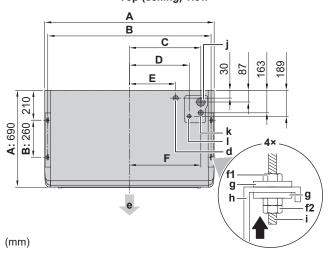
Optional equipment. When installing optional equipment, also read the installation manual of the optional equipment. Depending on the field conditions, it might be easier to install the optional equipment first.

- 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.



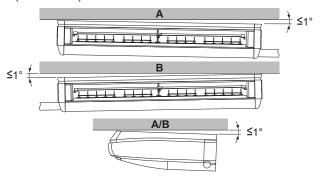
- a Ceiling slab
- **b** Anchor
- c Long nut with turnbuckle
- d Suspended ceiling
- e Suspension bolt
- Suspension bolts and unit. Use M8~M10 suspension bolts for installation. Attach the hanger bracket to the suspension bolt. Fix it securely using a nut and washer on the top and bottom of the hanger bracket.





	Α	В	С	D	Е	F	G	Н	J
FXHA32	960	920	378	324	270	375	398	377	260
FXHA50+63	1270	1230	533	479	425	530	553	532	415
FXHA100	1590	1550	693	639	585	690	713	692	575

- A Unit dimension
- B Suspension bolt pitch
- a Rear left drain piping outlet hole
- b Rear wiring outlet location
- c Wall hole for rear piping outlet (ø100 mm)
- d Top panel wiring outlet position
- e Discharge
- f1 Nut (field supply)
- f2 Double nut (field supply)
- **h** Hanger bracket
- Washer for hanger bracket (accessory)
- i Suspension bolt
- j Top panel drain piping connection position
- k Top panel gas side piping connection position
- I Top panel liquid side piping connection positions
- Level. Use the level to make sure the unit is installed horizontally.
 If possible, install the unit so the drain piping side is slightly tilted (maximum 1°)



A Drain piping tilted to the right, or to the right and back
 B Drain piping tilted to the left, or to the left and back

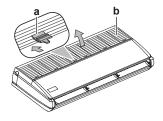


NOTICE

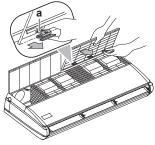
Do NOT install the unit tilted in other ways than specified. **Possible consequence:** If the unit is tilted against the direction of the condensate flow (the drain piping side is raised), the float switch might malfunction and cause water to drip.

To open the indoor unit

Remove the suction grille. Slide the fixing knobs to the back (2 for class 32, 3 for class 50~100), open the suction grille wide and hold the rear knob. Pull the suction grille to the front to remove it.

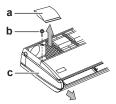


a Fixing knobb Suction grille



a Rear knob

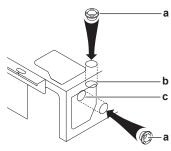
 Remove the decoration side covers (right, left). Remove the fixing screw from both side covers, pull the decoration panel to the front and remove the accessories.



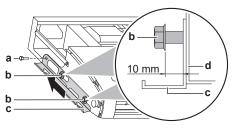
- a Accessories
- b Fixing screw for side covers
- c Decoration side cover

To mount the indoor unit

Open the knockout hole at the wiring inlet at the rear or the top of the unit, and install the resin bushing (accessory).



- a Resin bushing (accessory)
- **b** Knockout hole (for leading in from the top)
- c Knockout hole (for leading in from the rear)
- 2 Remove the hanger bracket. Loosen the 2 hanger bracket installation bolts (M8) on both sides (total 4 places) within 10 mm. Remove the fixing screw (M5) from the rear hanger bracket and pull the hanger bracket backward in the direction of the arrow in order to remove it.

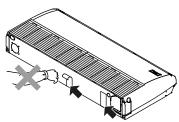


- a Hanger bracket fixing screw (M5)
- b Hanger bracket installation bolt (M8)
- c Hanger bracket
- d Indoor unit

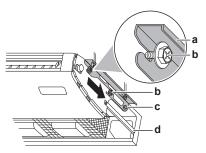


CAUTION

Do NOT remove the (milky white) tape from the exterior of the indoor unit. Removing the tape may cause an electric shock or a fire.



- 3 Fix the hanger bracket to the suspension bolts. "12.2.1 Guidelines when installing the indoor unit" [> 16].
- 4 Lift up the indoor unit and slide it to the back. Fix the hanger bracket installation bolt (M8) for temporary hanging. Do NOT hold the unit by the reinforcing plate.



- a Hanger bracket
- b Hanger bracket installation bolt (M8)
- c Hanger bracket fixing screw (M5)
- d Reinforcing plate
- 5 Install the hanger bracket fixing screws (M5) on both sides back (2 screws in total).
- **6** Fully tighten all hanger bracket installation bolts (M8) (4 screws in total).
- 7 Make sure the unit is level. Refer to "12.2.1 Guidelines when installing the indoor unit" [> 16].

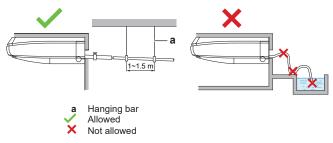
12.2.2 Guidelines when installing the drain piping

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

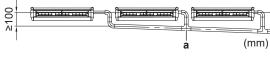
- · General guidelines
- Connecting the drain piping to the indoor unit
- · Checking for water leaks

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



- Condensation. Take measures against condensation. Insulate the complete drain piping in the building.
- Combining drain pipes. You can combine drain pipes. Make sure to use drain pipes and T-joints with the correct gauge for the operating capacity of the units.



a T-joint

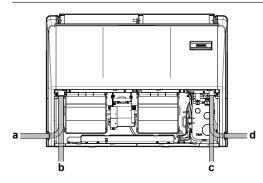
To connect the drain piping to the indoor unit



NOTICE

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

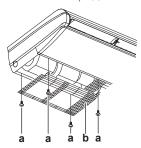
Drain piping can be connected from following directions:



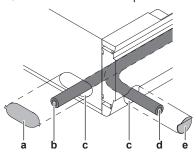
- Left drain piping
- Rear left drain piping
- Rear right drain piping
- Right drain piping

Rear left or left drain piping

Remove the protective grille (32 class: 7 screws, 50+63 class: 11 screws, 100 class: 10 screws).



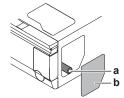
- Fixing screw for protective grille
- Protective grille
- 2 Remove the cap from the drain socket and remove the insulation material from the left side and apply it to the right side. Make sure the drain socket is fully pushed in to avoid water leakage
- Remove the knockout part.



- Rear left knockout part (sheet metal)
- b Rear left drain piping
- Putty or insulation (field supply)
- Left drain piping
 Left knockout part on decoration side panel

Rear right drain piping

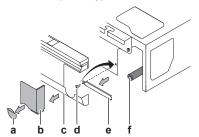
Remove the rear piping pipe port cover and cut out the holes for piping. When cutting out the holes, make sure to avoid the knob part of the cover.



- Rear right drain piping
- Rear piping pipe port cover

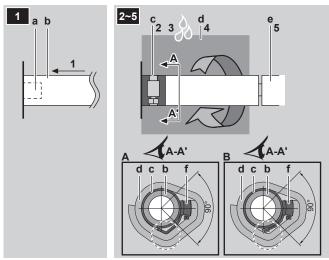
Right drain piping

- 1 Remove the reinforcing plate from the right side and put back the screw in the original position on the indoor unit.
- Remove the rectangular part from the decoration side panel (when installing only drain piping on the right side, remove the round part only).



- Round part
- Rectangular part of the decoration side panel b
- Decoration side panel
- Screw
- Reinforcing plate
- Right drain piping

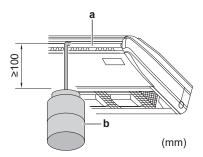
Drain piping connection



- Drain pipe connection (attached to the unit)
- b Drain hose (accessory)
- Metal clamp (accessory)
- Large sealing pad (accessory)
- Drain piping (field supply)
- Tightened part of metal clamp
- In case of bending the end of the metal clamp
- In case of wrapping the end of the metal clamp with vinyl
- 1 Push the drain hose as far as possible over the drain pipe connection.
- Tighten the metal clamp at the base of the drain socket. Wrap the end of the metal clamp with vinyl tape or bend the end inwards to avoid damaging the sealing pad.
- 3 Check for water leaks (see "To check for water leaks" [▶ 18]).
- 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.
- Connect the drain piping to the drain hose.

To check for water leaks

Make sure the unit is level in accordance with the instructions in "12.2.1 Guidelines when installing the indoor unit" [> 16]. Gradually pour approximately 1 I of water through the air discharge outlet, and check for leaks.



- a Air outle
- b Plastic water container with tube length ≥100 mm

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



NOTICE

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

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

Refrigerant piping diameter

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

Class	Pipe outer diameter (mm)		
	Liquid pipe	Gas pipe	
32	Ø6.4	Ø9.5	
50+63	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	Ø
9.5 mm (3/8")			(<u>)</u> .t
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

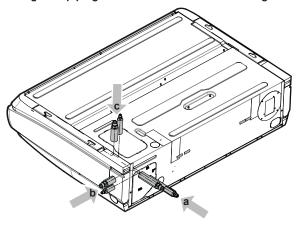
Install the refrigerant piping or components in a position where they are unlikely to be exposed to any substance which may corrode components containing refrigerant, unless the components are constructed of materials that are inherently resistant to corrosion or are suitably protected against corrosion.



WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.

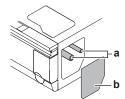
Refrigerant piping can be connected from following directions:



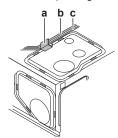
- a Rear right piping
- Right piping
- c Upward piping

Rear right piping

1 Remove the rear piping pipe port cover and cut out the holes for piping. When cutting out the holes, make sure to avoid the knob part of the cover.



- Rear refrigerant piping
- Rear piping pipe port cover
- 2 Run the field supply pipes through the cut out holes.
- After the drain and refrigerant piping is finished, install the pipe port cover back. Run all the cables (except cable of expansion valve) through the clamp of the pipe port cover and fix.



- Clamp of the pipe port cover
- Cables (except cable of expansion valve)

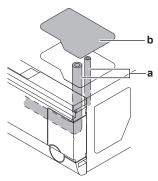
Upward piping



INFORMATION

L-shaped connection piping kit (optional accessory) is

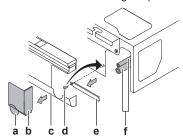
Remove the top pipe port cover and cut out the holes for piping. When cutting out the holes, make sure to avoid the knob part of the cover. Use an L-shaped connection piping kit (optional accessory) for the piping. Run the pipes through the cut out holes.



- Upward refrigerant piping
- Top pipe port cover

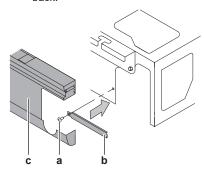
Right piping

- Remove the reinforcing plate at the right side and put back the screw in the original position on the indoor unit.
- Remove the decoration side panel.
- Remove the rectangular part of the decoration side panel.

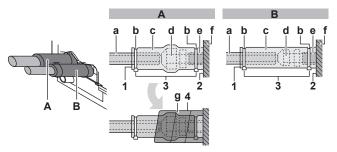


- Round part
- Rectangular part of the decoration side panel

- С Decoration side panel
- d Screw
- Reinforcing plate
- Right refrigerant piping
- After the drain and refrigerant piping is finished, install the reinforcing plate (optional step) and the decoration side panel



- Screw
- Reinforcing plate b
- Decoration side panel С
- 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:



- Gas piping
- В Liquid piping
- Insulation material (field supply)
- Tie wrap (accessory) Insulation pieces: Large (gas pipe), small (liquid pipe) (accessory)
- Flare nut (attached to the unit)
- Refrigerant pipe connection (attached to the unit)
- g Small sealing pad (accessory)
- Turn up the seams of the insulation pieces.
- Attach to the base of the unit.
- Tighten the tie wrap on the insulation pieces.
- Wrap the sealing pad from the base of the unit to the top of the flare nut.



NOTICE

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

14 **Electrical installation**



DANGER: RISK OF ELECTROCUTION



WARNING

ALWAYS use multicore cable for power supply cables.



WARNING

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



WARNING

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

14.1 Specifications of standard wiring components



NOTICE

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

Power supply				
Voltage	220~240 V/220 V			
Frequency	50/60 Hz			
Phase	1~			
Current	FXHA32: 0.5 A			
	FXHA50: 0.6 A			
	FXHA63: 0.7 A			
	FXHA100: 1.3 A			

Components				
Power supply cable	MUST comply with national wiring regulation.			
	3-core cable			
	Wire size based on the current, but not less than 1.5 mm ²			
Transmission wiring	Only use harmonised wire providing double insulation and suitable for applicable voltage			
	2-core cable			
	Minimum size 0.75 mm ²			
User interface cable	Only use harmonised wire providing double insulation and suitable for applicable voltage			
	2-core cable			
	Minimum size 0.75 mm ²			
	Maximum length 500 m			
Recommended circuit breaker	6 A			
Residual current device	MUST comply with national wiring regulation			

14.2 To connect the electrical wiring to the indoor unit



NOTICE

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

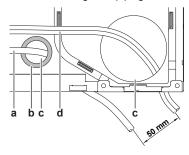
It is important to keep the power supply and the transmission wiring separated from each other. In order to avoid any electrical interference the distance between both wirings should ALWAYS be at least 50 mm.



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.
- 2 Open the knockout hole and install the resin bushing (accessory). Refer to: "To mount the indoor unit" [▶ 17]. The location depends on the power supply wiring route. For transmission and user interface cable, choosing the same route as the refrigerant piping is recommended.

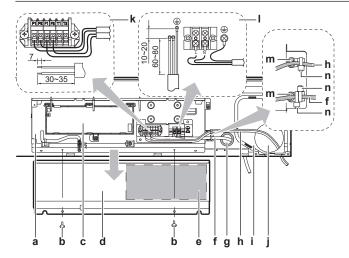


- a Power supply wiring
- **b** Resin bushing (accessory)
- Sealing material for gaps around pipes and cables (accessory)
- d User interface cable and transmission cable
- 3 Install the 2 wiring fixtures with screws for wiring fixture (accessory).
- 4 User interface cable: Route the cable through the large cut out hole and connect it to the terminal block (symbols P1, P2).
- 5 Transmission cable: Route the cable through the large cut out hole and connect it to the terminal block (make sure the symbols F1, F2 match with the symbols on the outdoor unit). Bundle the transmission cable with the user interface cable and fix them with a tie wrap on the wiring fixture.
- 6 Power supply cable: Route the cable through the small cut out hole and connect it to the terminal block (L, N, earth). Fix the cable with a tie wrap on the wiring fixture.



- a Circuit breaker
- **b** Residual current device

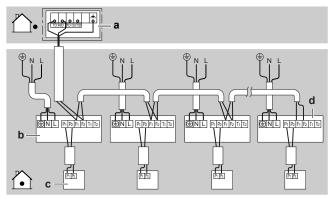
15 Finishing the indoor unit installation



- a Control box
- **b** Service cover screw
- c Printed circuit board
- d Service cover
- Wiring diagram label
- f Power supply wiring
- g Small cut out hole
- h User interface cable and transmission cable
- i Rear piping cover
- j Large cut out hole
- k Connection of user interface cable and transmission cable
- I Connection of power supply cable
- m Wiring fixture fixed with a screw (accessory)
- n Tie wrap (accessory)
- 7 Seal all gaps with sealing material (accessory) to prevent small animals from entering the system.
- 8 Reattach the service cover.

Complete system example

1 user interface controls 1 indoor unit.



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



NOTICE

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



CAUTION

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



CAUTION

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

15 Finishing the indoor unit installation



NOTICE

Block any gaps around pipes and cables with sealing material (accessory) to avoid dust from entering the indoor unit

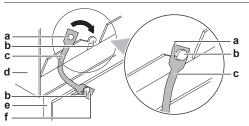
15.1 To mount the suction grille and decoration side panel

- 1 Install securely in the reverse order. Refer to "To open the indoor unit" [> 16].
- 2 When installing the suction grille, attach the strap of the suction grille to the hook on the indoor unit.



INFORMATION

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



- a Round hole
- **b** Hook
- **c** Strap
- d Indoor unite Suction grille
- f Cross-shaped hole

16 Commissioning



NOTICE

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

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



NOTICE

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

16.1 Checklist before commissioning

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

You have read the complete installation and operation instructions described in the installer and user reference guide .
The indoor unit is properly mounted.
The outdoor unit is properly mounted.
The drain piping is properly installed and insulated, and drainage flows smoothly. Check for water leaks.
Possible consequence: condensate water might drip.
The refrigerant pipes (gas and liquid) are installed correctly and thermally insulated.
There are NO refrigerant leaks.
There are NO missing phases or reversed phases.
The system is properly earthed and the earth terminals are tightened.
The fuses or locally installed protection devices are installed according to this document, and have NOT been bypassed.
The power supply voltage matches the voltage on the identification label of the unit.
There are NO loose connections or damaged electrical components in the switch box.
There are NO damaged components or squeezed pipes on the inside of the indoor and outdoor units.
The stop valves (gas and liquid) on the outdoor unit are fully open.

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
- 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.

If the distance to the floor is (m)			Then ⁽¹⁾	
FXHA32~63	FXHA100	M	sw	_
≤2.7	≤3.8	13 (23)	0	01
2.7 <x≤3.5< td=""><td>3.8<x≤4.3< td=""><td></td><td></td><td>02</td></x≤4.3<></td></x≤3.5<>	3.8 <x≤4.3< td=""><td></td><td></td><td>02</td></x≤4.3<>			02

Setting: Air volume when thermostat control is OFF

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

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

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

- 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).

⁽¹⁾ Field settings are defined as follows:

If you want an interval of	Then ⁽¹⁾		
(air contamination)	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	Then ⁽¹⁾		
sensor is	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	Then ⁽¹⁾			Example
set	М	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	Then ⁽¹⁾			
failure	M	sw	_	
Disabled	12 (22)	5	01	
Enabled			02	

Setting: T1/T2 input setting

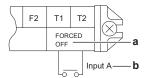
<u>/</u>!\

WARNING

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

a Fire alarm input signal (potential free contact)

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



- a Forced OFF
- **b** Input A

Wiring requirements				
Wiring specification	Only use harmonized wire providing double insulation and suitable for applicable voltage			
	2-core cable			
Wiring size	Minimum 0.75 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.

5				
If you want to change increments to	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.

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

⁽¹⁾ Field settings are defined as follows:

Symbol	Meaning	Symbol	Meaning
 	Circuit breaker	(1)	Protective earth
+	Connection		Protective earth (screw)
∞- ∞,)-	Connector	(A) , (Z)	Rectifier
<u> </u>	Earth	-(Relay connector
:: [] ::	Field wiring		Short-circuit connector
	Fuse	-0-	Terminal
INDOOR	Indoor unit		Terminal strip
OUTDOOR	Outdoor unit	0 •	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
НАР	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

Symbol	Meaning	
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	







