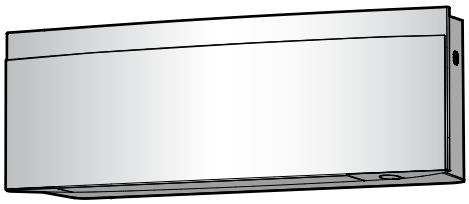
Installer reference guide

Wall mounted split air conditioner



FTXJ20B2V1BW
FTXJ25B2V1BW
FTXJ35B2V1BW
FTXJ42B2V1BW
FTXJ50B2V1BW

FTXJ20B2V1BB
FTXJ25B2V1BB
FTXJ35B2V1BB
FTXJ42B2V1BB
FTXJ50B2V1BB

FTXJ20B2V1BS
FTXJ25B2V1BS
FTXJ35B2V1BS
FTXJ42B2V1BS
FTXJ50B2V1BS

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1 About the documentation

1.1 Product code

FTXJ20B, FTXJ25B, FTXJ35B, FTXJ42B, FTXJ50B

1.2 About this document

WARNING

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

INFORMATION

Make sure that the user has the printed documentation and ask him/her to keep it for future reference.

Target audience

INFORMATION

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

Documentation set

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

- **General safety precautions:**
  - Safety instructions that you MUST read before installing
  - Format: Digital files on https://www.daikin.eu. Use the search function 🔍 to find your model.
- **Indoor unit installation manual:**
  - Installation instructions
  - Format: Digital files on https://www.daikin.eu. Use the search function 🔍 to find your model.
- **Installer reference guide:**
  - Preparation of the installation, good practices, reference data,…
  - Format: Digital files on https://www.daikin.eu. Use the search function 🔍 to find your model.

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

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

FTXJ-BB FTXJ-BS FTXJ-BW

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

1.2.1 Meaning of warnings and symbols

DANGER
Indicates a situation that results in death or serious injury.

DANGER: RISK OF ELECTROCUTION
Indicates a situation that could result in electrocution.

DANGER: RISK OF BURNING/SCALDING
Indicates a situation that could result in burning/scalding because of extreme hot or cold temperatures.

DANGER: RISK OF EXPLOSION
Indicates a situation that could result in explosion.

WARNING
Indicates a situation that could result in death or serious injury.

CAUTION
Indicates a situation that could result in minor or moderate injury.

NOTICE
Indicates a situation that could result in equipment or property damage.

INFORMATION
Indicates useful tips or additional information.

Symbols used on the unit:

Symbol	Explanation
	Before installation, read the installation and operation manual, and the wiring instruction sheet.
	Before performing maintenance and service tasks, read the service manual.
	For more information, see the installer and user reference guide.
	The unit contains rotating parts. Be careful when servicing or inspecting the unit.

Symbols used in the documentation:

Symbol	Explanation
	Indicates a figure title or a reference to it. **Example:** "1–3 Figure title" means "Figure 3 in chapter 1".

Symbol	Explanation
	Indicates a table title or a reference to it. **Example:** "1–3 Table title" means "Table 3 in chapter 1".

2 General safety precautions

2.1 For the installer

2.1.1 General

If you are NOT sure how to install or operate the unit, contact your dealer.



DANGER: RISK OF BURNING/SCALDING

- Do NOT touch the refrigerant piping, water piping or internal parts during and immediately after operation. It could be too hot or too cold. Give it time to return to normal temperature. If you MUST touch it, wear protective gloves.
- Do NOT touch any accidental leaking refrigerant.



WARNING

Improper installation or attachment of equipment or accessories could result in electrical shock, short-circuit, leaks, fire or other damage to the equipment. ONLY use accessories, optional equipment and spare parts made or approved by Daikin unless otherwise specified.



WARNING

Make sure installation, testing and applied materials comply with applicable legislation (on top of the instructions described in the Daikin documentation).



WARNING

Tear apart and throw away plastic packaging bags so that nobody, especially children, can play with them. **Possible consequence:** suffocation.



WARNING

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



CAUTION

Wear adequate personal protective equipment (protective gloves, safety glasses,...) when installing, maintaining or servicing the system.



CAUTION

Do NOT touch the air inlet or aluminium fins of the unit.



CAUTION

- Do NOT place any objects or equipment on top of the unit.
- Do NOT sit, climb or stand on the unit.

In accordance with the applicable legislation, it might be necessary to provide a logbook with the product containing at least: information on maintenance, repair work, results of tests, stand-by periods,...

Also, at least, following information MUST be provided at an accessible place at the product:

- Instructions for shutting down the system in case of an emergency

- Name and address of fire department, police and hospital
- Name, address and day and night telephone numbers for obtaining service

In Europe, EN378 provides the necessary guidance for this logbook.

2.1.2 Installation site

- Provide sufficient space around the unit for servicing and air circulation.
- Make sure the installation site withstands the weight and vibration of the unit.
- Make sure the area is well ventilated. Do NOT block any ventilation openings.
- Make sure the unit is level.

Do NOT install the unit in the following places:

- In potentially explosive atmospheres.
- In places where there is machinery that emits electromagnetic waves. Electromagnetic waves may disturb the control system, and cause malfunction of the equipment.
- In places where there is a risk of fire due to the leakage of flammable gases (example: thinner or gasoline), carbon fibre, ignitable dust.
- In places where corrosive gas (example: sulphurous acid gas) is produced. Corrosion of copper pipes or soldered parts may cause the refrigerant to leak.
- In bathrooms.

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

WARNING

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

WARNING

If one or more rooms are connected to the unit using a duct system, make sure:

- there are no operating ignition sources (example: open flames, an operating gas appliance or an operating electric heater) in case the floor area is less than the minimum floor area A (m^2).
- no auxiliary devices, which may be a potential ignition source, are installed in the duct work (example: hot surfaces with a temperature exceeding 700°C and electric switching device);
- only auxiliary devices approved by the manufacturer are used in the duct work;
- air inlet AND outlet are connected directly to the same room by ducting. Do NOT use spaces such as a false ceiling as a duct for the air inlet or outlet.

CAUTION

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

NOTICE

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

2.1.3 Installation space requirements

WARNING

If appliances contain R32 refrigerant, the floor area of the room in which the appliances are installed, operated and stored MUST be larger than the minimum floor area defined in table below A (m^2). This applies to:

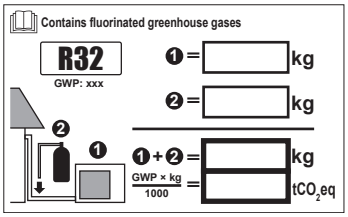
- Indoor units **without** a refrigerant leakage sensor; in case of indoor units **with** refrigerant leakage sensor, consult the installation manual
- Outdoor units installed or stored indoors (e.g. winter garden, garage, machinery room)

NOTICE

- The pipework shall be securely mounted and protected from physical damage.
- Keep the pipework installation to a minimum.

2.1.4 To determine the minimum floor area

1 Determine the total refrigerant charge in the system (= factory refrigerant charge ❶ + ❷ additional refrigerant amount charged).

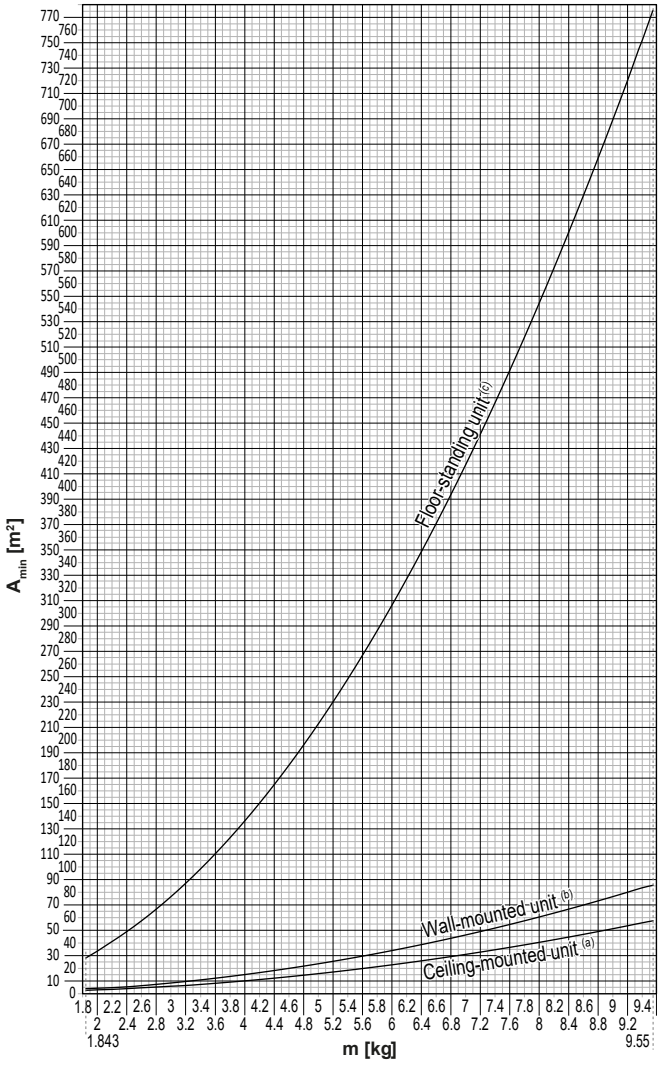


2 Determine which graph or table to use.

- For indoor units: Is the unit ceiling-mounted, wall-mounted or floor-standing?
- For outdoor units installed or stored indoors, this depends on the installation height:

If the installation height is…	Then use the graph or table for…
<1.8 m	Floor-standing units
1.8≤x<2.2 m	Wall-mounted units
≥2.2 m	Ceiling-mounted units

3 Use the graph or table to determine the minimum floor area.



Ceiling-mounted unit[a]		Wall-mounted unit[b]		Floor-standing unit[c]	
m (kg)	A_{min} (m²)	m (kg)	A_{min} (m²)	m (kg)	A_{min} (m²)
≤1.842	—	≤1.842	—	≤1.842	—
1.843	3.64	1.843	4.45	1.843	28.9
2.0	3.95	2.0	4.83	2.0	34.0
2.2	4.34	2.2	5.31	2.2	41.2
2.4	4.74	2.4	5.79	2.4	49.0
2.6	5.13	2.6	6.39	2.6	57.5
2.8	5.53	2.8	7.41	2.8	66.7
3.0	5.92	3.0	8.51	3.0	76.6
3.2	6.48	3.2	9.68	3.2	87.2
3.4	7.32	3.4	10.9	3.4	98.4
3.6	8.20	3.6	12.3	3.6	110
3.8	9.14	3.8	13.7	3.8	123
4.0	10.1	4.0	15.1	4.0	136
4.2	11.2	4.2	16.7	4.2	150
4.4	12.3	4.4	18.3	4.4	165
4.6	13.4	4.6	20.0	4.6	180
4.8	14.6	4.8	21.8	4.8	196
5.0	15.8	5.0	23.6	5.0	213
5.2	17.1	5.2	25.6	5.2	230
5.4	18.5	5.4	27.6	5.4	248
5.6	19.9	5.6	29.7	5.6	267
5.8	21.3	5.8	31.8	5.8	286
6.0	22.8	6.0	34.0	6.0	306
6.2	24.3	6.2	36.4	6.2	327
6.4	25.9	6.4	38.7	6.4	349
6.6	27.6	6.6	41.2	6.6	371
6.8	29.3	6.8	43.7	6.8	394
7.0	31.0	7.0	46.3	7.0	417
7.2	32.8	7.2	49.0	7.2	441
7.4	34.7	7.4	51.8	7.4	466
7.6	36.6	7.6	54.6	7.6	492
7.8	38.5	7.8	57.5	7.8	518
8	40.5	8	60.5	8	545
8.2	42.6	8.2	63.6	8.2	572
8.4	44.7	8.4	66.7	8.4	601
8.6	46.8	8.6	69.9	8.6	629
8.8	49.0	8.8	73.2	8.8	659
9	51.3	9	76.6	9	689
9.2	53.6	9.2	80.0	9.2	720
9.4	55.9	9.4	83.6	9.4	752
9.55	57.7	9.55	86.2	9.55	776

m Total refrigerant charge in the system

A_{min} Minimum floor area
(a) Ceiling-mounted unit (= Ceiling-mounted unit)
(b) Wall-mounted unit (= Wall-mounted unit)
(c) Floor-standing unit (= Floor-standing unit)

2.1.5 Refrigerant — in case of R410A or R32

DANGER: RISK OF EXPLOSION

Pump down – Refrigerant leakage. If you want to pump down the system, and there is a leak in the refrigerant circuit:

- Do NOT use the unit's automatic pump down function, with which you can collect all refrigerant from the system into the outdoor unit. **Possible consequence:** Self-combustion and explosion of the compressor because of air going into the operating compressor.
- Use a separate recovery system so that the unit's compressor does NOT have to operate.

WARNING

During tests, NEVER pressurise the product with a pressure higher than the maximum allowable pressure (as indicated on the nameplate of the unit).

WARNING

Take sufficient precautions in case of refrigerant leakage. If refrigerant gas leaks, ventilate the area immediately. Possible risks:

- Excessive refrigerant concentrations in a closed room can lead to oxygen deficiency.
- Toxic gas might be produced if refrigerant gas comes into contact with fire.

WARNING

ALWAYS recover the refrigerant. Do NOT release directly into the environment. Use a vacuum pump to evacuate the installation.

WARNING

Make sure there is no oxygen in the system. Refrigerant may ONLY be charged after performing the leak test and the vacuum drying.

Possible consequence: Self-combustion and explosion of the compressor because of oxygen going into the operating compressor.

NOTICE

- To avoid compressor breakdown, do NOT charge more than the specified amount of refrigerant.
- When the refrigerant system is to be opened, refrigerant MUST be treated according to the applicable legislation.

NOTICE

Make sure refrigerant piping installation complies with applicable legislation. In Europe, EN378 is the applicable standard.

NOTICE

Make sure the field piping and connections are NOT subjected to stress.

NOTICE

After all the piping has been connected, make sure there is no gas leak. Use nitrogen to perform a gas leak detection.

- In case recharge is required, see the nameplate or the refrigerant charge label of the unit. It states the type of refrigerant and necessary amount.
- Whether the unit is factory charged with refrigerant or non-charged, in both cases you might need to charge additional refrigerant, depending on the pipe sizes and pipe lengths of the system.
- ONLY use tools exclusively for the refrigerant type used in the system, this to ensure pressure resistance and prevent foreign materials from entering into the system.
- Charge the liquid refrigerant as follows:

If	Then
A siphon tube is present (i.e., the cylinder is marked with "Liquid filling siphon attached")	Charge with the cylinder upright. 
A siphon tube is NOT present	Charge with the cylinder upside down. 

- Open refrigerant cylinders slowly.
- Charge the refrigerant in liquid form. Adding it in gas form may prevent normal operation.

CAUTION

When the refrigerant charging procedure is done or when pausing, close the valve of the refrigerant tank immediately. If the valve is NOT closed immediately, remaining pressure might charge additional refrigerant. **Possible consequence:** Incorrect refrigerant amount.

2.1.6 Electrical

DANGER: RISK OF ELECTROCUTION

- Turn OFF all power supply before removing the switch box cover, connecting electrical wiring or touching electrical parts.
- 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 wiring diagram.
- Do NOT touch electrical components with wet hands.
- Do NOT leave the unit unattended when the service cover is removed.

WARNING

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

WARNING

- ONLY use copper wires.
- Make sure the field wiring complies with the national wiring regulations.
- All field wiring MUST be performed in accordance with the wiring diagram supplied with the product.
- NEVER squeeze bundled cables and make sure they do NOT come in contact with the piping and sharp edges. Make sure no external pressure is applied to the terminal connections.
- Make sure to install earth wiring. Do NOT earth the unit to a utility pipe, surge absorber, or telephone earth. Incomplete or incorrect earthing may cause electrical shock.
- Make sure to use a dedicated power circuit. NEVER use a power supply shared by another appliance.
- Make sure to install the required fuses or circuit breakers.
- Make sure to install an earth leakage protector. Failure to do so may cause electrical shock or fire.
- When installing the earth leakage protector, make sure it is compatible with the inverter (resistant to high frequency electric noise) to avoid unnecessary opening of the earth leakage protector.

WARNING

- After finishing the electrical work, confirm that each electrical component and terminal inside the switch box is connected securely.
- Make sure all covers are closed before starting up the unit.

CAUTION

- When connecting the power supply: connect the earth cable first, before making the current-carrying connections.
- When disconnecting the power supply: disconnect the current-carrying cables first, before separating the earth connection.
- The length of the conductors between the power supply stress relief and the terminal block itself MUST be as such that the current-carrying wires are tautened before the earth wire is in case the power supply is pulled loose from the stress relief.

NOTICE

Precautions when laying power wiring:



- Do NOT connect wiring of different thicknesses to the power terminal block (slack in the power wiring may cause abnormal heat).
- When connecting wiring which is the same thickness, do as shown in the figure above.
- For wiring, use the designated power wire and connect firmly, then secure to prevent outside pressure being exerted on the terminal board.
- Use an appropriate screwdriver for tightening the terminal screws. A screwdriver with a small head will damage the head and make proper tightening impossible.
- Over-tightening the terminal screws may break them.

Install power cables at least 1 metre away from televisions or radios to prevent interference. Depending on the radio waves, a distance of 3 metres may NOT be sufficient.

NOTICE

ONLY applicable if the power supply is three-phase, and the compressor has an ON/OFF starting method.

If there exists the possibility of reversed phase after a momentary black out and the power goes ON and OFF while the product is operating, attach a reversed phase protection circuit locally. Running the product in reversed phase can break the compressor and other parts.

3 Specific installer safety instructions

Always observe the following safety instructions and regulations.

Unit installation (see "6 Unit installation" [▸ 22])



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.



WARNING

The appliance 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 precautions.



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.

Piping installation (see "7 Piping installation" [▸ 33])



WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.



CAUTION

Piping and joints of a split system shall be made with permanent joints when inside an occupied space except joints directly connecting the piping to the indoor units.



DANGER: RISK OF BURNING/SCALDING



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.

Electrical installation (see "8 Electrical installation" [▸ 39])



DANGER: RISK OF ELECTROCUTION



WARNING

ALWAYS use multicore cable for power supply cables.

WARNING

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

WARNING

- If the power supply has a missing or wrong N-phase, equipment might break down.
- Establish proper earthing. Do NOT earth the unit to a utility pipe, surge absorber, or telephone earth. Incomplete earthing may cause electrical shocks.
- Install the required fuses or circuit breakers.
- Secure the electrical wiring with cable ties so that the cables do NOT come in contact with sharp edges or piping, particularly on the high-pressure side.
- Do NOT 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

Do NOT extend the power supply or the interconnection cable by using wire connectors, wire connection clamps, taped wires, extension cords.

These can cause overheating, electric shock or fire.

WARNING

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

WARNING

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

WARNING

Do NOT connect the power supply to the indoor unit. This could result in electrical shock or fire.

WARNING

- Do NOT use locally purchased electrical parts inside the product.
- Do NOT branch the power supply for the drain pump, etc. from the terminal block. This could result in electrical shock or fire.

WARNING

Keep the interconnection wiring away from copper pipes without thermal insulation as such pipes will be very hot.

4 About the box

Keep the following in mind:

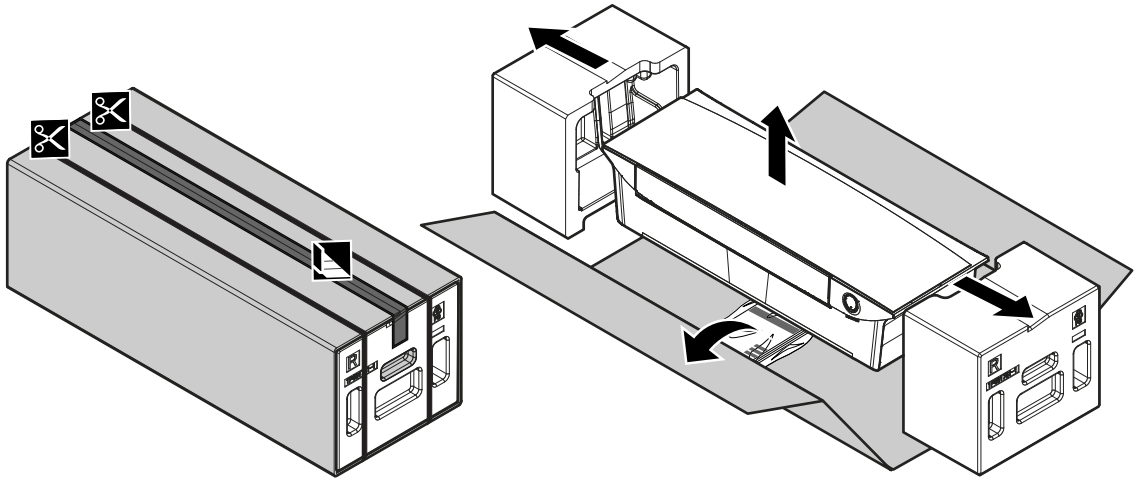
- At delivery, the unit MUST be checked for damage and completeness. Any damage or missing parts MUST be reported immediately to the claims agent of the carrier.
- Bring the packed unit as close as possible to its final installation position to prevent damage during transport.
- Prepare in advance the path along which you want to bring the unit to its final installation position.
- When handling the unit, take into account the following:

  Fragile, handle the unit with care.

  Keep the unit upright in order to avoid damage.

4.1 Indoor unit

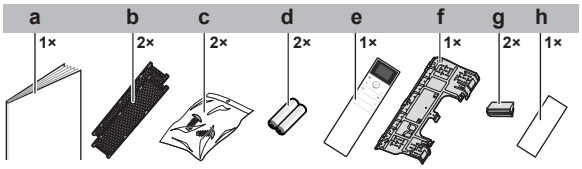
4.1.1 To unpack the indoor unit



4.1.2 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,
- the spare SSID sticker located on the front grille.



a Operation manual
b Titanium apatite deodorising filter and silver particle filter (Ag-ion filter)
c Indoor unit fixing screw (M4×12L). Refer to "9.3 To fix the unit on the mounting plate" [▶ 46].
d Dry battery AAA.LR03 (alkaline) for the wireless remote control
e Wireless remote control (user interface)
f Mounting plate

g Screw cover
h Spare SSID sticker with release paper (attached to the unit)

- **Spare SSID sticker.** Do NOT throw away the spare sticker. Keep it in a safe place in case it is needed in future (e.g. in case the front grille was replaced attach it to the new front grille).

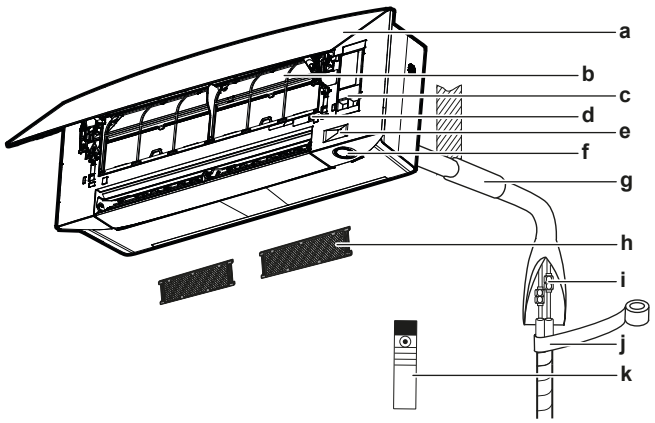
5 About the unit

A2L

WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.

5.1 System layout



a Front panel
b Air filter
c Service cover
d SSID sticker
e Intelligent eye sensor
f Daikin eye
g Caulk pipe hole gap with putty
h Titanium apatite deodorising filter and silver particle filter (Ag-ion filter)
i Refrigerant piping, drain hose and interconnection cable
j Insulation tape
k Wireless remote control (user interface)

5.2 Operation range

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

	Cooling and drying[a][b]	Heating[a]
Outdoor temperature for RXJ models	–10~50°C DB	–20~24°C DB –21~18°C WB
Outdoor temperature for 2MXM, 3MXM, 4MXM, 5MXM models	–10~46°C DB	–15~24°C DB –15~18°C WB
Indoor temperature	18~37°C DB 14~28°C WB	10~30°C DB
Indoor humidity	≤80%[a]	—

[a] A safety device might stop the operation of the system if the unit runs outside its operation range.
[b] Condensation and water dripping might occur if the unit runs outside its operation range.

5.3 About the wireless LAN

For detailed specifications, installation instructions, setting methods, FAQ, declaration of conformity and the latest version of this manual, visit app.daikineurope.com.

INFORMATION: Declaration of conformity

Daikin Industries Czech Republic s.r.o. declares that the radio equipment type inside of this unit is in compliance with Directive 2014/53/EU.

5.3.1 Precautions when using the wireless LAN

Do NOT use near:

- **Medical equipment.** E.g. persons using cardiac pacemakers or defibrillators. This product may cause electromagnetic interference.
- **Auto-control equipment.** E.g. automatic doors or fire alarm equipment. This product may cause faulty behaviour of the equipment.
- **Microwave oven.** It may affect wireless LAN communications.

5.3.2 Basic parameters

What	Value
Frequency range	2400 MHz~2483.5 MHz
Radio protocol	IEEE 802.11b/g/n
Radio frequency channel	1~13
Output power	13 dBm
Effective radiated power	15 dBm (11b) / 14 dBm (11g) / 14 dBm (11n)
Power supply	DC 14 V / 100 mA

5.3.3 Setting the wireless LAN

The customer is responsible for providing:

- Smartphone or tablet with minimum supported version of Android or iOS, specified on app.daikineurope.com
- Internet line and communicating device, such as modem, router, etc.
- Wireless LAN access point.
- Installed free ONECTA app.

To install the ONECTA app

1. Go to Google Play (for Android devices) or the App Store (for iOS devices) and search for "ONECTA".
2. Follow the directions on the screen to install the ONECTA app.

Search the app directly using the QR on the wireless remote control display

1 Enter the main menu by pressing ··· and navigate to the wireless remote control setting menu using < and >.

2 Press ⌄ to enter the menu.

Wireless remote control setting menu



3 Navigate to the QR code screen using < and >.

4 Scan the QR code by smartphone or other smart devices.

Result: The QR code will re-direct you to the App Store or Google Play.



5 Follow the directions on the screen to install.

INFORMATION

If the QR code is difficult to read, switch the displayed QR code using ^ or ⌄, then try again.

6 Unit installation

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.

In this chapter

6.1 Preparing the installation site 22
6.1.1 Installation site requirements of the indoor unit 22
6.2 Opening the unit 24
6.2.1 To open the front panel 24
6.2.2 To remove the front panel 24
6.2.3 To open the service cover 25
6.2.4 To remove the front grille 26
6.2.5 To remove the electrical wiring box cover 27
6.3 Mounting the indoor unit 27
6.3.1 To install the mounting plate 27
6.3.2 To drill a wall hole 28
6.3.3 To remove the pipe port cover 29
6.4 Connecting the drain piping 29
6.4.1 General guidelines 30
6.4.2 To connect the piping on right side, right-back, or right-bottom 31
6.4.3 To connect the piping on left side, left-back, or left-bottom 31
6.4.4 To check for water leaks 32

6.1 Preparing the installation site

WARNING

The appliance 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 precautions.

Choose an installation location with sufficient space to transport the unit in and out of the site.

Do NOT install the unit in places often used as work place. In case of construction works (e.g. grinding works) where a lot of dust is created, the unit MUST be covered.

6.1.1 Installation site requirements of the indoor unit

INFORMATION

Also read the precautions and requirements in the "2 General safety precautions" [▶ 7].

INFORMATION

The sound pressure level is less than 70 dBA.

- **Air flow.** Make sure nothing blocks the air flow.
- **Drainage.** Make sure condensation water can be evacuated properly.
- **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.

Install power cables at least 1 metre away from televisions or radios to prevent interference. Depending on the radio waves, a distance of 3 metres may NOT be sufficient.

- Choose a location where the operation noise or the hot/cold air discharged from the unit will not disturb anyone and the location is selected according the applicable legislation.
- **Fluorescent lights**. When installing a wireless remote control (user interface) in a room with fluorescent lights, mind the following to avoid interference:
  - Install the wireless remote control (user interface) as close as possible to the indoor unit.
  - Install the indoor unit as far as possible from the fluorescent lights.

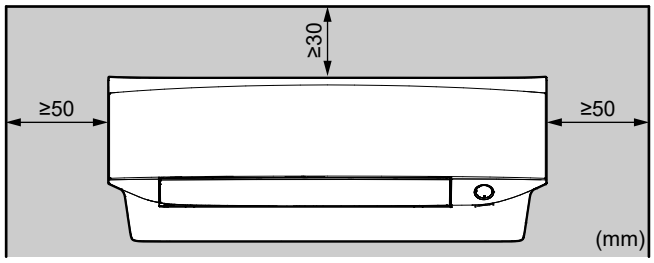
It is NOT recommended to install the unit in the following places because it may shorten the life of the unit:

- Where the voltage fluctuates a lot
- In vehicles or vessels
- Where acidic or alkaline vapour is present
- In places where a mineral oil mist, spray or vapour may be present in the atmosphere. Plastic parts may deteriorate and fall off or cause water leakage.
- In places where the unit would be in the path of direct sunlight.
- In bathrooms.
- Sound sensitive areas (e.g. near a bedroom), so that the operation noise will cause no trouble.

NOTICE

Do NOT place objects below the indoor and/or outdoor unit that may get wet. Otherwise condensation on the unit or refrigerant pipes, air filter dirt or drain blockage may cause dripping, and objects under the unit may get dirty or damaged.

- **Spacing.** Install the unit at least 1.8 m from the floor and keep the following requirements in mind for distances from the walls and the ceiling:

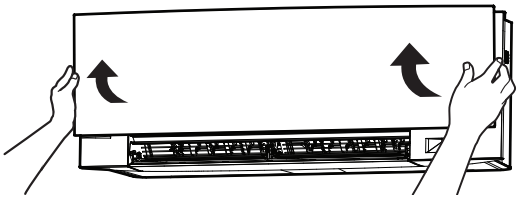


Note: Make sure that there are no obstacles within 500 mm under the infrared signal receiver. They may influence reception performance of the wireless remote control.

6.2 Opening the unit

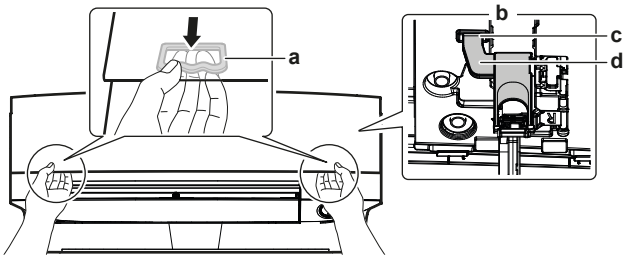
6.2.1 To open the front panel

1 Hold the front panel on both sides and pull it up carefully until it reach the limit position.



2 Pull down both locks on the back of the front panel.

3 Open the front panel until the support fits into the fixing tab.



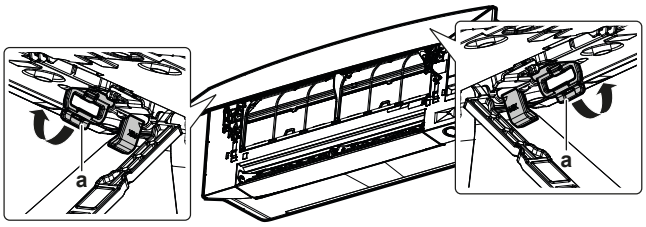
a Lock (1 on each side)
b Backside of the front panel
c Fixing tab
d Support

6.2.2 To remove the front panel

INFORMATION
Remove the front panel only in case it MUST be replaced.

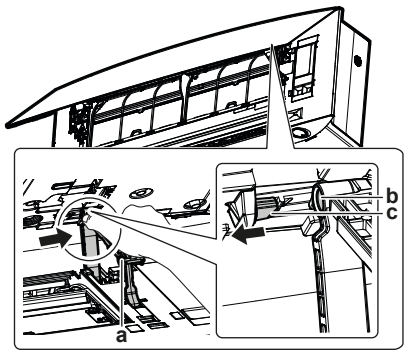
1 Open the front panel. See "6.2.1 To open the front panel" [▸ 24].

2 Open the panel locks on the back side of the panel (1 on each side).



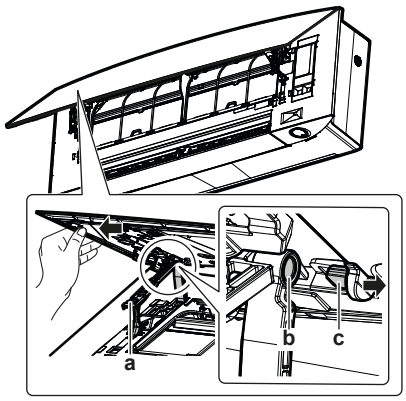
a Panel lock

3 Push the right arm lightly to the right to disconnect the shaft from the shaft slot on the right side.



a Arm
b Shaft slot
c Shaft

4 Disconnect the front panel shaft from the shaft slot on the left side.



a Arm
b Shaft slot
c Shaft

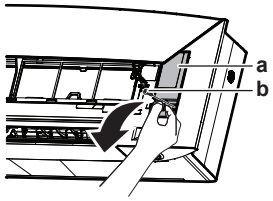
5 Remove the front panel.

6 To re-install the front panel, perform the steps in the opposite order.

6.2.3 To open the service cover

1 Remove 1 screw from the service cover.

2 Pull out the service cover horizontally away from the unit.



a Service cover
b Service cover screw

NOTICE

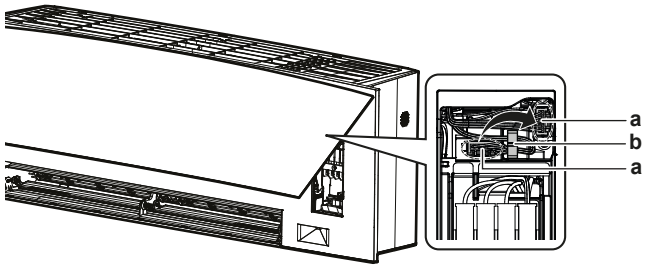
When closing the service cover, make sure that the tightening torque does NOT exceed 1.4 (±0.2) N•m.

6.2.4 To remove the front grille

CAUTION

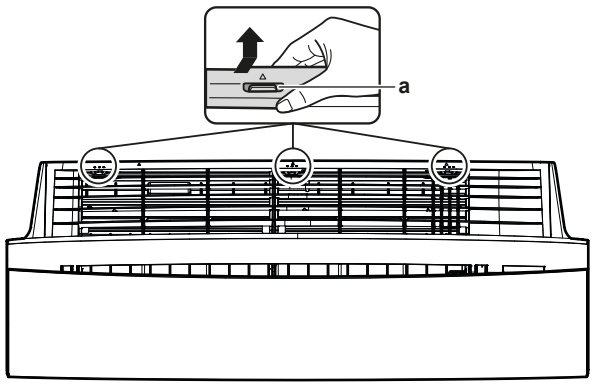
Wear adequate personal protective equipment (protective gloves, safety glasses,...) when installing, maintaining or servicing the system.

1. Open the front panel. Refer to "6.2.1 To open the front panel" [▸ 24].
2. Remove the service cover. Refer to "6.2.3 To open the service cover" [▸ 25].
3. Remove the wire harness from the wire clamp, disconnect the connector and place it in the connector holder.
4. Position the flap carefully by hand, so it does not to get caught during front grille removal.
5. If already installed, remove the 2 screw covers using a long flat plate such as a ruler wrapped in a cloth and remove 2 screws.



a Connector
b Wire clamp

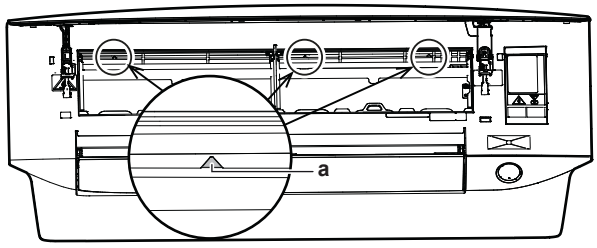
6. Push the front grille up and then towards the mounting plate to remove the front grille from the 3 hooks.



a Hook

Prerequisite: If working space is limited.

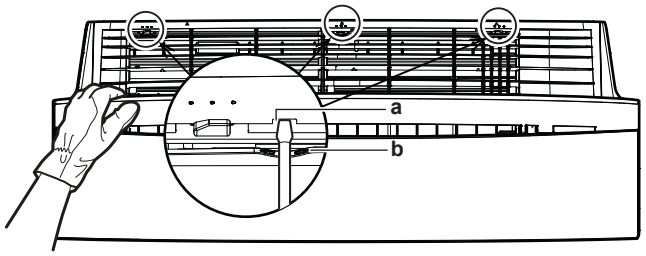
7. Slide the flat screwdriver in the direction of triangle on the rib into the half-moon shaped dent on the grille.



a Triangle symbol

8. Slightly press down the front grille and insert the screwdriver in slot next to the hooks.

9 Pull the front grille up using the flat screwdriver and pull towards the front side.



a Slot
b Half-moon shaped dent

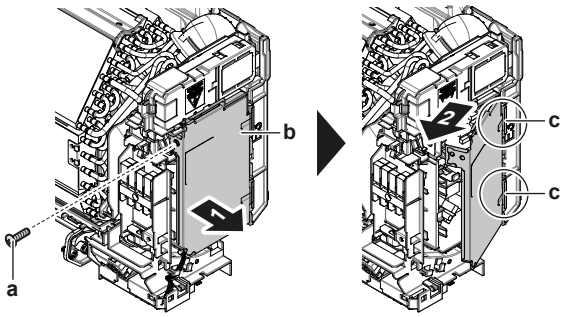
6.2.5 To remove the electrical wiring box cover

Prerequisite: Remove the front grille.

1 Remove 1 screw from the electrical wiring box.

2 Open the electrical wiring box cover by pulling it to the front.

3 Remove the electrical wiring box cover from the 2 rear hooks.



a Screw
b Electrical wiring box
c Rear hook

4 To re-install the cover, first attach the electrical wiring box to the hooks, close the electrical wiring box, and re-install the screw.

NOTICE

When closing the electrical wiring box cover, make sure that the tightening torque does NOT exceed 2.0 (±0.2) N•m.

6.3 Mounting the indoor unit

In this chapter

6.3.1 To install the mounting plate 27
6.3.2 To drill a wall hole 28
6.3.3 To remove the pipe port cover 29

6.3.1 To install the mounting plate

1 Install the mounting plate temporarily.

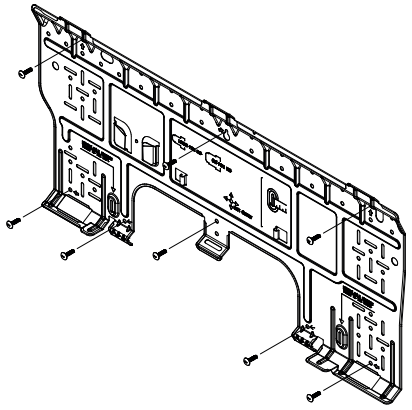
2 Level the mounting plate.

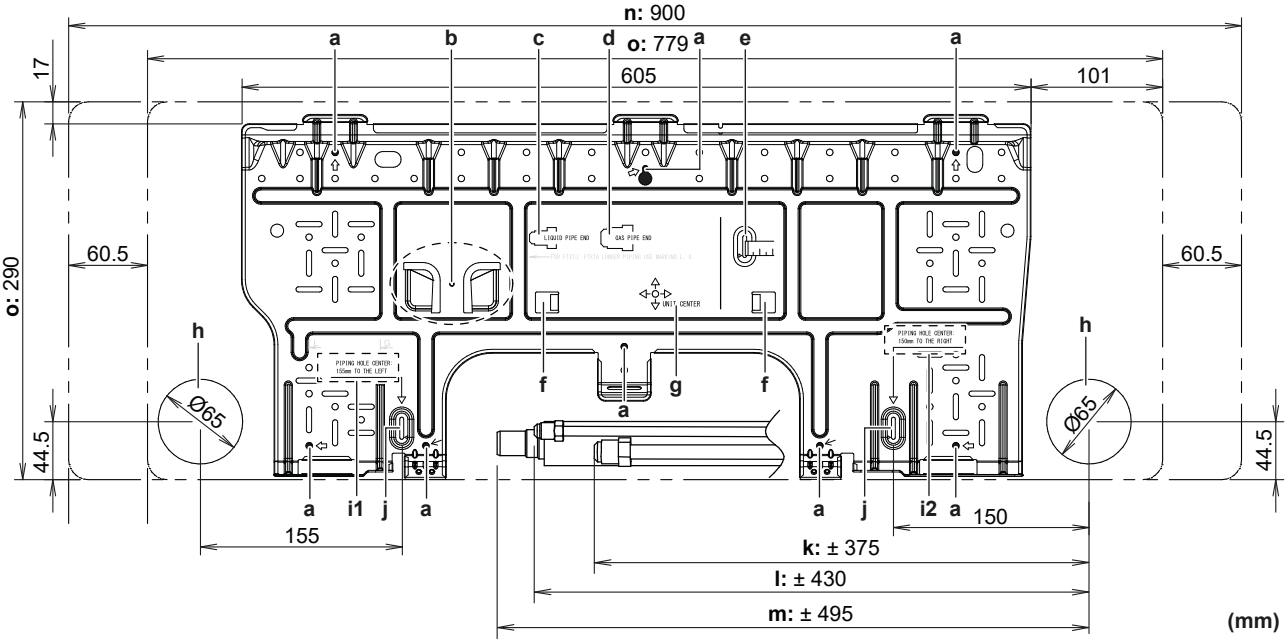
3 Mark the centres of the drilling points on the wall using a tape measure. Position the end of tape measure at symbol "▷".

4 Finish the installation by securing the mounting plate on the wall using M4×25L screws (field supply).

INFORMATION

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





a Recommended mounting plate fixing spots
b Pocket for the pipe port cover
c Liquid pipe end
d Gas pipe end
e Use tape measure as shown
f Tabs for placing a spirit level
g Unit center
h Hole for embedded piping Ø65 mm
i1 Piping hole center is 155 mm to the left
i2 Piping hole center is 150 mm to the right
j Position for tape measure at symbol "▷"
k Gas pipe length
l Liquid pipe length
m Drain hose length
n Outline of the unit
o Outline of the unit's back side

6.3.2 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.

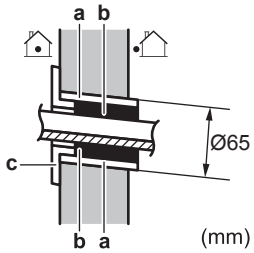
NOTICE

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

1 Bore a 65 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
b Putty
c Wall hole cover

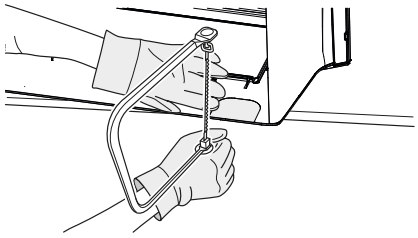
4 After completing wiring, refrigerant piping and drain piping, do NOT forget to seal the gap with putty.

6.3.3 To remove the pipe port cover

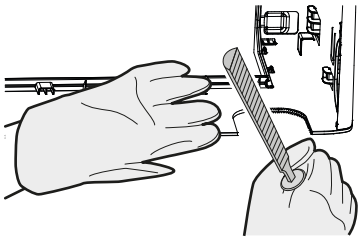
INFORMATION

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

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



2 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.

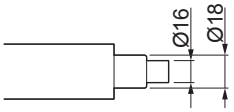
6.4 Connecting the drain piping

In this chapter

6.4.1 General guidelines 30
6.4.2 To connect the piping on right side, right-back, or right-bottom 31
6.4.3 To connect the piping on left side, left-back, or left-bottom 31
6.4.4 To check for water leaks 32

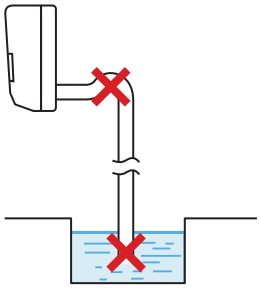
6.4.1 General guidelines

- **Pipe length.** Keep drain piping as short as possible.
- **Pipe size.** If drain hose extension or embedded drain piping is required, use appropriate parts that match the hose front end.

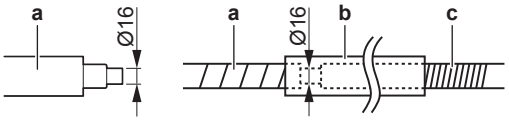


NOTICE

- Install the drain hose with a downward slope.
- Traps are NOT permitted.
- Do NOT put the end of the hose in water.

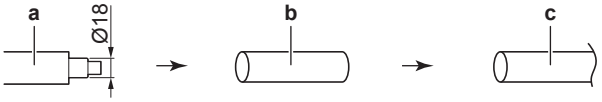


- **Drain hose extension.** To extend the drain hose, use a field supplied hose with inner Ø16 mm. Do NOT forget to use a heat insulation tube on the indoor section of the extension hose.



a Drain hose supplied with the indoor unit
b Heat insulation tube (field supply)
c Extension drain hose

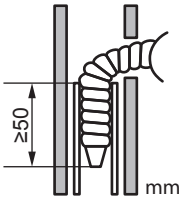
- **Rigid polyvinyl chloride pipe.** When connecting a rigid polyvinyl chloride pipe (nominal Ø13 mm) directly to the drain hose as with embedded piping work, use a field supplied drain socket (nominal Ø13 mm).



a Drain hose supplied with the indoor unit
b Drain socket with nominal Ø13 mm (field supply)
c Rigid polyvinyl chloride pipe (field supply)

- **Condensation.** Take measures against condensation. Insulate the complete drain piping in the building.

1 Insert the drain hose in the drain pipe as shown in the following figure, so it will NOT be pulled out of the drain pipe.

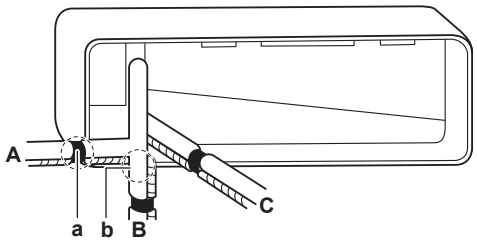


6.4.2 To connect the piping on right side, right-back, or right-bottom

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.



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

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

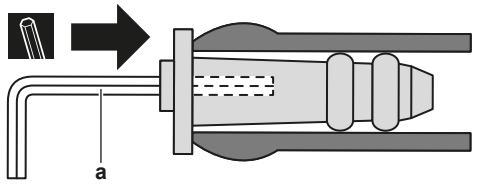
INFORMATION

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. 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.

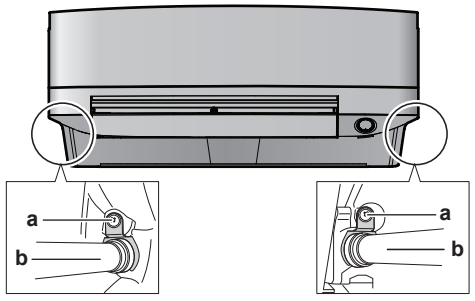
NOTICE

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.



a 4 mm hexagonal wrench

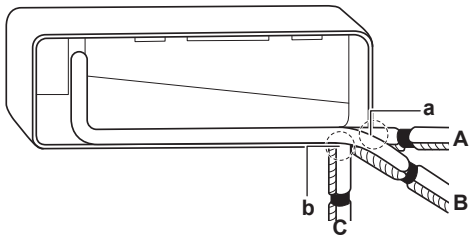
3. Insert the drain hose on the left side and do not forget to tighten it with the fixing screw; otherwise water leakage may occur.



a Insulation fixing screw

b Drain hose

4 Attach the drain hose to the refrigerant piping bottom side using adhesive vinyl tape.

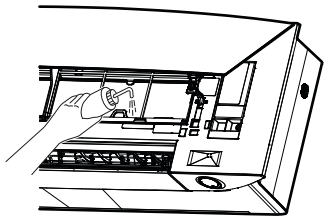


A Left-side piping
B Left-back piping
C Left-bottom piping
a Remove the pipe port cover here for left-side piping
b Remove the pipe port cover here for left-bottom piping

6.4.4 To check for water leaks

1 Remove the air filters.

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



7 Piping installation

In this chapter

7.1 Preparing refrigerant piping 33
7.1.1 Refrigerant piping requirements 33
7.1.2 Refrigerant piping insulation 34
7.2 Connecting the refrigerant piping 34
7.2.1 About connecting the refrigerant piping 34
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7.2.5 To flare the pipe end 36
7.2.6 To connect the refrigerant piping to the indoor unit 37
7.2.7 To check refrigerant piping joints for leaks after charging refrigerant 37

7.1 Preparing refrigerant piping

7.1.1 Refrigerant piping requirements

CAUTION

Piping and joints of a split system shall be made with permanent joints when inside an occupied space except joints directly connecting the piping to the indoor units.

NOTICE

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

INFORMATION

Also read the precautions and requirements in the "2 General safety precautions" [▶ 7].

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

Refrigerant piping diameter

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

Class	Pipe outer diameter (mm)	
	Liquid pipe	Gas pipe
20~35	Ø6.4	Ø9.5
42+50	Ø6.4	Ø12.7

Refrigerant piping material

Piping material

Phosphoric acid deoxidised seamless copper

Flare connections

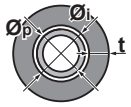
Only use annealed material.

Piping temper grade and thickness

7.1.2 Refrigerant piping insulation

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

Pipe outer diameter ($Ø_p$)	Insulation inner diameter ($Ø_i$)	Insulation thickness (t)
6.4 mm (1/4")	8~10 mm	≥10 mm
9.5 mm (3/8")	12~15 mm	≥13 mm
12.7 mm (1/2")	14~16 mm	≥13 mm



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

7.2 Connecting the refrigerant piping

7.2.1 About connecting the refrigerant piping

Before connecting the refrigerant piping

Make sure the outdoor and indoor unit are mounted.

Typical workflow

Connecting the refrigerant piping involves:

- Connecting the refrigerant piping to the indoor unit
- Connecting the refrigerant piping to the outdoor unit
- Insulating the refrigerant piping
- Keeping in mind the guidelines for:
  - Pipe bending
  - Flaring pipe ends
  - Using the stop valves

7.2.2 Precautions when connecting the refrigerant piping

INFORMATION

Also read the precautions and requirements in the following chapters:

- "2 General safety precautions" [▶ 7]
- "7.1 Preparing refrigerant piping" [▶ 33]

DANGER: RISK OF BURNING/SCALDING

NOTICE

- Use the flare nut fixed to the unit.
- To prevent gas leakage, apply refrigeration oil ONLY to the inside of the flare. Use refrigeration oil for R32 (FW68DA).
- Do NOT reuse joints.

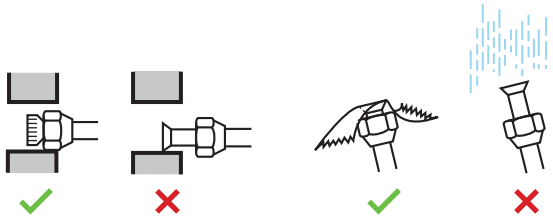
NOTICE

- Do NOT use mineral oil on flared part.
- NEVER install a drier to this R32 unit to guarantee its lifetime. The drying material may dissolve and damage the system.

NOTICE

Take the following precautions on refrigerant piping into account:

- Avoid anything but the designated refrigerant to get mixed into the refrigerant cycle (e.g. air).
- Only use R32 when adding refrigerant.
- Only use installation tools (e.g. manifold gauge set) that are exclusively used for R32 installations to withstand the pressure and to prevent foreign materials (e.g. mineral oils and moisture) from mixing into the system.
- Install the piping so that the flare is NOT subjected to mechanical stress.
- Do NOT leave pipes unattended at the site. If the installation is NOT done within 1 day, protect the piping as described in the following table to prevent dirt, liquid or dust from entering the piping.
- Use caution when passing copper tubes through walls (see figure below).

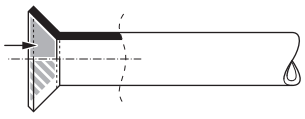


Unit	Installation period	Protection method
Outdoor unit	>1 month	Pinch the pipe
	<1 month	Pinch or tape the pipe
Indoor unit	Regardless of the period	

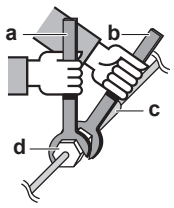
7.2.3 Guidelines when connecting the refrigerant piping

Take the following guidelines into account when connecting pipes:

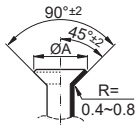
- Coat the flare inner surface with ether oil or ester oil when connecting a flare nut. Tighten 3 or 4 turns by hand, before tightening firmly.



- ALWAYS use two wrenches together when loosening a flare nut.
- ALWAYS use a spanner and torque wrench together to tighten the flare nut when connecting the piping. This to prevent nut cracking and leaks.



a Torque wrench
b Spanner
c Piping union
d Flare nut

Piping size (mm)	Tightening torque (N•m)	Flare dimensions (A) (mm)	Flare shape (mm)
Ø6.4	15~17	8.7~9.1	
Ø9.5	33~39	12.8~13.2	
Ø12.7	50~60	16.2~16.6	

7.2.4 Pipe bending guidelines

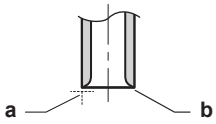
Use a pipe bender for bending. All pipe bends should be as gentle as possible (bending radius should be 30~40 mm or larger).

7.2.5 To flare the pipe end

CAUTION

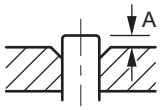
- Incomplete flaring may cause refrigerant gas leakage.
- Do NOT re-use flares. Use new flares to prevent refrigerant gas leakage.
- Use flare nuts that are included with the unit. Using different flare nuts may cause refrigerant gas leakage.

1. Cut the pipe end with a pipe cutter.
2. Remove burrs with the cut surface facing down so that the chips do NOT enter the pipe.



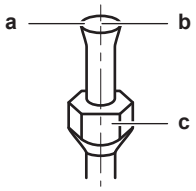
a Cut exactly at right angles.
b Remove burrs.

3. Remove the flare nut from the stop valve and put the flare nut on the pipe.
4. Flare the pipe. Set exactly at the position as shown in the following figure.



	Flare tool for R32 (clutch type)	Conventional flare tool	
		Clutch type (Ridgid-type)	Wing nut type (Imperial-type)
A	0~0.5 mm	1.0~1.5 mm	1.5~2.0 mm

5 Check that the flaring is properly made.



a Flare's inner surface MUST be flawless.
b The pipe end MUST be evenly flared in a perfect circle.
c Make sure the flare nut is fitted.

7.2.6 To connect the refrigerant piping to the indoor unit



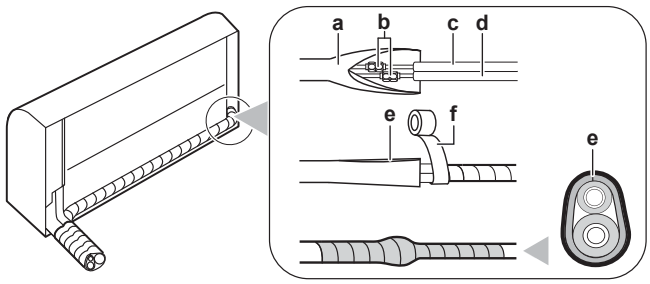
WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.

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

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

2 Wrap the refrigerant piping connection using vinyl tape, overlapping at least half the width of the tape with each turn. Keep the slit of the heat insulation pipe cover up. Avoid wrapping the tape too tight.



a Heat insulation pipe cover (on the indoor unit side)
b Flare connections
c Liquid pipe (with insulation) (field supply)
d Gas pipe (with insulation) (field supply)
e Slit on heat insulation pipe cover facing up
f Vinyl tape (field supply)

3 **Insulate** the refrigerant piping, interconnection cable and drain hose on the indoor unit: See "9.1 To insulate the drain piping, refrigerant piping and interconnection cable" [▸ 45].

NOTICE

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

7.2.7 To check refrigerant piping joints for leaks after charging refrigerant

1 Perform the leak tests according to instructions in the outdoor unit installation manual.

2 Charge refrigerant.

3 Check for refrigerant leaks after charging (see below).

Tightness test of field-made refrigerant joints indoors

1 Use a leakage test method with a minimum sensitivity of 5 g of refrigerant/year. Test leaks using a pressure of at least 0.25 times the maximum working pressure (see "PS High" on the unit nameplate).

If a leak is detected

1 Recover the refrigerant, repair the joint, and repeat the test.

8 Electrical installation

In this chapter

8.1 About connecting the electrical wiring 39
8.1.1 Precautions when connecting the electrical wiring 39
8.1.2 Guidelines when connecting the electrical wiring 40
8.1.3 Specifications of standard wiring components 42
8.2 To connect the electrical wiring to the indoor unit 42
8.3 To connect optional accessories (wired user interface, central user interface, etc.) 44

8.1 About connecting the electrical wiring

Before connecting the electrical wiring

Make sure the refrigerant piping is connected and checked.

Typical workflow

Connecting the electrical wiring typically consists of the following stages:

1. Making sure the power supply system complies with the electrical specifications of the units.
2. Connecting the electrical wiring to the outdoor unit.
3. Connecting the electrical wiring to the indoor unit.
4. Connecting the main power supply.

8.1.1 Precautions when connecting the electrical wiring



DANGER: RISK OF ELECTROCUTION



WARNING

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



WARNING

ALWAYS use multicore cable for power supply cables.



INFORMATION

Also read the precautions and requirements in the "2 General safety precautions" [▸ 7].



INFORMATION

Also read "8.1.3 Specifications of standard wiring components" [▸ 42].

WARNING

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

WARNING

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

WARNING

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

WARNING

Do NOT extend the power supply or the interconnection cable by using wire connectors, wire connection clamps, taped wires, extension cords.

These can cause overheating, electric shock or fire.

WARNING

Do NOT connect the power supply to the indoor unit. This could result in electrical shock or fire.

WARNING

- Do NOT use locally purchased electrical parts inside the product.
- Do NOT branch the power supply for the drain pump, etc. from the terminal block. This could result in electrical shock or fire.

WARNING

Keep the interconnection wiring away from copper pipes without thermal insulation as such pipes will be very hot.

8.1.2 Guidelines when connecting the electrical wiring

NOTICE

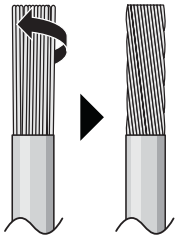
We recommend using solid (single-core) wires. If stranded wires are used, slightly twist the strands to consolidate the end of the conductor for either direct use in the terminal clamp or insertion in a round crimp-style terminal.

To prepare stranded conductor wire for installation

Method 1: Twisting conductor

1 Strip insulation (20 mm) from the wires.

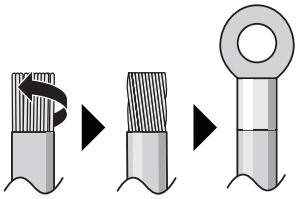
2 Slightly twist the end of the conductor to create a "solid-like" connection.



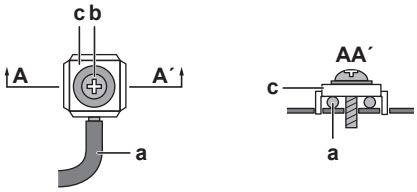
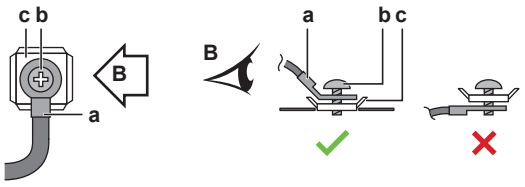
Method 2: Using round crimp-style terminal (recommended)

1 Strip insulation from wires and slightly twist the end of each wire.

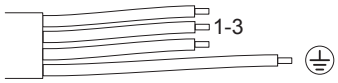
2 Install a round crimp-style terminal on the end of the wire. Place the round crimp-style terminal on the wire up to the covered part and fasten the terminal with the appropriate tool.



Use the following methods for installing wires:

Wire type	Installation method
Single-core wire Or Stranded conductor wire twisted to "solid-like" connection	 **a** Curled wire (single-core or twisted stranded conductor wire) **b** Screw **c** Flat washer
Stranded conductor wire with round crimp-style terminal	 **a** Terminal **b** Screw **c** Flat washer ✓ Allowed ✕ NOT allowed

- The earth wire between the wire retainer and the terminal must be longer than the other wires.



8.1.3 Specifications of standard wiring components

Component		
Interconnection cable (indoor↔outdoor)	Voltage	220~240 V
	Wire size	Only use harmonized wire providing double insulation and suitable for applicable voltage 4-core cable Minimum 1.5 mm²
Residual current device / Earth leakage circuit breaker	A residual current breaker, compliant with the national wiring regulation, must be installed in the supply line. ALWAYS install a residual current breaker with an instantaneous action, unless otherwise defined by the national wiring regulation.	

8.2 To connect the electrical wiring to the indoor unit

WARNING

Do NOT extend the power supply or the interconnection cable by using wire connectors, wire connection clamps, taped wires, extension cords.

These can cause overheating, electric shock or fire.

WARNING

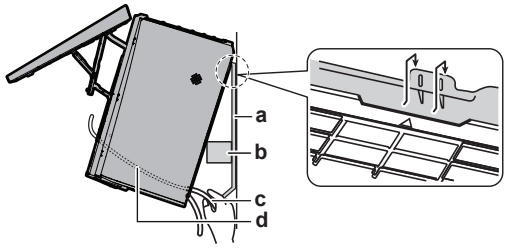
Provide adequate measures to prevent that the unit can be used as a shelter by small animals. Small animals that make contact with electrical parts can cause malfunctions, smoke or fire.

NOTICE

- Keep power supply wiring and interconnection wiring apart from each other. Interconnection wiring and power supply wiring may cross, but may NOT run parallel.
- In order to avoid any electrical interference, the distance between both wirings should ALWAYS be at least 50 mm.

Electrical work should be carried out in accordance with the installation manual and the national electrical wiring rules or code of practice.

1 Set the indoor unit on the mounting plate hooks. Use the "△" marks as a guide.

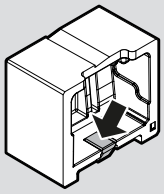


a Mounting plate (accessory)
b Piece of packing material
c Interconnection cable
d Wire guide

INFORMATION

Support the unit using a piece of packing material.

Example:

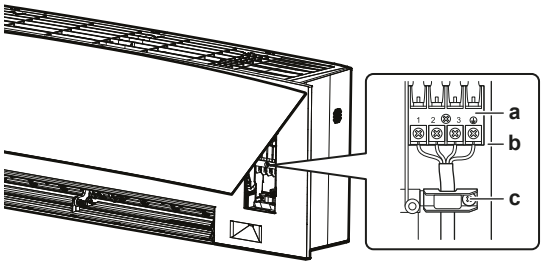


2 Open the front panel, and then the service cover. Refer to "6.2 Opening the unit" [▸ 24].

3 Pass the interconnection cable from the outdoor unit through the feed-through wall hole, through the back of the indoor unit and through the front side.

Note: In case the interconnection cable was stripped in advance, cover the ends with insulating tape.

4 Bend the end of the cable up.



a Terminal block
b Electrical component block
c Cable clamp

5 Strip the wire ends approximately 15 mm.

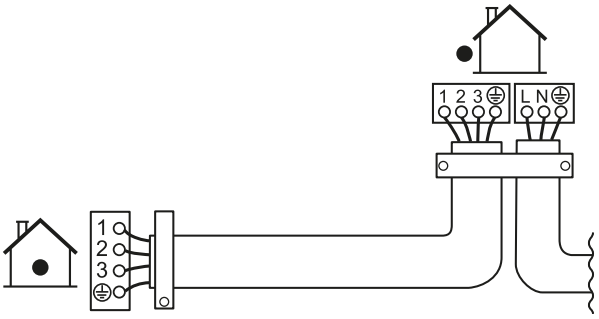
6 Match wire colours with terminal numbers on the indoor unit terminal blocks and firmly screw the wires to the corresponding terminals.

7 Connect the earth wire to the corresponding terminal.

8 Firmly fix the wires with the terminal screws.

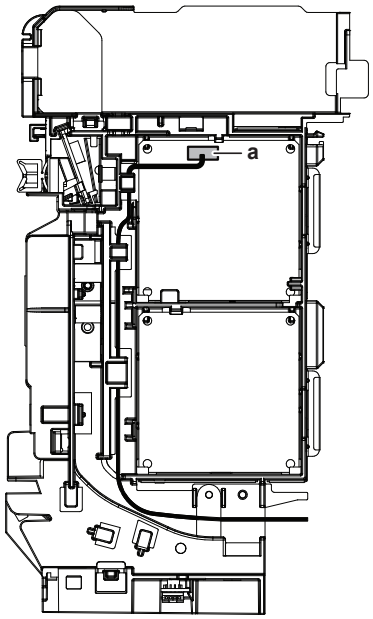
9 Pull the wires to make sure that they are securely attached, then retain the wires with the wire retainer.

10 Shape the wires so that the service cover fits securely, then close the service cover.



8.3 To connect optional accessories (wired user interface, central user interface, etc.)

1. Remove the electrical wiring box cover (refer to "6.2.5 To remove the electrical wiring box cover" [▶ 27]).
2. Attach the connection cable to the S21 connector and pull the wire harness as shown in the following figure.

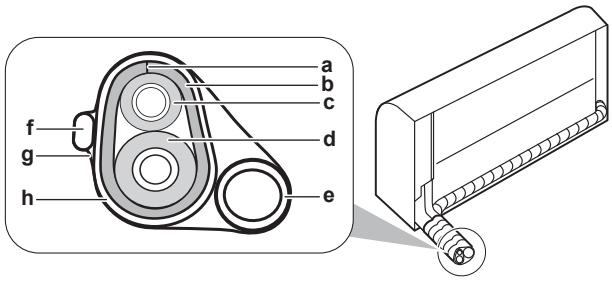


a S21 connector

3. Put the electrical wiring box cover back and pull the wire harness around it as shown in the figure above.

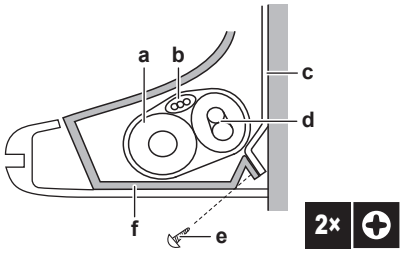
9 Finishing the indoor unit installation

9.1 To insulate the drain piping, refrigerant piping and interconnection cable



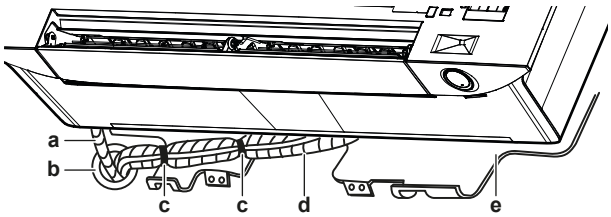
a Slit
b Heat insulation pipe cover
c Liquid pipe
d Gas pipe
e Drain pipe
f Interconnection wire
g Insulation tape
h Vinyl tape

1 After the drain piping, refrigerant piping and the electrical wiring are finished, wrap refrigerant piping, interconnection cable and drain hose together using insulation tape. Overlap at least half the width of the tape with each turn.



a Drain hose
b Interconnection cable
c Mounting plate (accessory)
d Refrigerant piping
e Indoor unit fixing screw M4×12L (accessory)
f Bottom frame

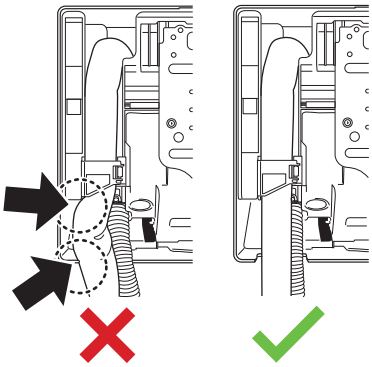
9.2 To pass the pipes through the wall hole



a Drain hose
b Caulk this hole with putty or caulking material
c Adhesive vinyl tape
d Insulation tape
e Mounting plate (accessory)

NOTICE

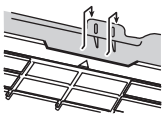
- Do NOT bend refrigerant pipes.
- Do NOT push the refrigerant pipes onto the bottom frame or the front grille.



1 Pass the drain hose and refrigerant piping through the wall hole and seal the gap with a putty.

9.3 To fix the unit on the mounting plate

1 Set the indoor unit on the mounting plate hooks. Use the "△" marks as a guide.



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 anywhere.

Note: Take care that the interconnection cable does NOT get caught in the indoor unit.

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 2 indoor unit fixing screws M4×12L (accessory).

9.4 Closing the unit

9.4.1 To re-install the front grille

1 Install the front grille and firmly engage the 3 upper hooks.

2 Tighten the 2 screws and put the 2 screw covers back.

3 Re-install the flap.

4 Insert the wire harness back into the connector and secure it with the wire clamp.

5 Close the front panel. Refer to "9.4.4 To close the front panel" [▸ 47].

9.4.2 To close the service cover

1 Place the service cover to its original place on the unit.

2 Install 1 screw back on the service cover.

NOTICE

When closing the service cover, make sure that the tightening torque does NOT exceed 1.4 (±0.2) N•m.

9.4.3 To re-install the front panel

1 Attach the front panel.

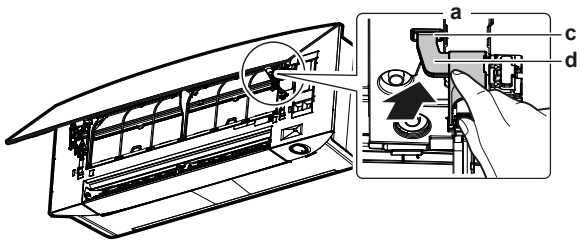
2 Align the shaft on right side with the shaft slot and insert it all the way in.

3 Push lightly the front panel to the right side, align the shaft on the left side with slot and insert it all the way in.

4 Close the locks on both sides.

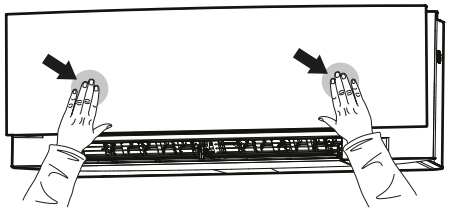
9.4.4 To close the front panel

1 Lift the front panel slightly and remove the support from the fixing tab.



a Backside of the front panel
b Fixing tab
c Support

2 Close the front panel.

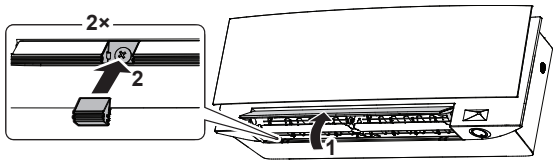


3 Gently press the front panel down until it clicks.

9.4.5 To install the screw covers

1 Open the front panel and turn the flap up.

2 Install both screw covers (1 on each side).



3 Return flap to its original position and close the front panel.

10 Commissioning

> **NOTICE**
>
> **General commissioning checklist.** Next to the commissioning instructions in this chapter, a general commissioning checklist is also available on the Daikin Library (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.

10.1 Overview: Commissioning

This chapter describes what you have to do and know to commission the system after it is installed.

Typical workflow

Commissioning typically consists of the following stages:

1 Checking the "Checklist before commissioning".

2 Performing a test run for the system.

10.2 Checklist before commissioning

1 After the installation of the unit, check the items listed below.

2 Close the unit.

3 Power up the unit.

☐	You read the complete installation instructions, as described in the **installer reference guide**.
☐	The **indoor units** are properly mounted.
☐	The **outdoor unit** is properly mounted.
☐	**Air inlet/outlet** Check that the air inlet and outlet of the unit is NOT obstructed by paper sheets, cardboard, or any other material.
☐	There are NO **missing phases** or **reversed phases**.
☐	The **refrigerant pipes** (gas and liquid) are thermally insulated.
☐	**Drainage** Make sure drainage flows smoothly. **Possible consequence:** Condensate water might drip.
☐	The system is properly **earthed** and the earth terminals are tightened.
☐	The **fuses**, **circuit breakers**, or **locally installed protection devices** are of the size and type specified in this document, and have NOT been bypassed.
☐	The **power supply voltage** matches the voltage on the identification label of the unit.
☐	The specified wires are used for the **interconnection cable**.
☐	The indoor unit receives the signals of the **user interface**.
☐	There are NO **loose connections** or damaged electrical components in the switch box.

☐	The **insulation resistance** of the compressor is OK.
☐	There are NO **damaged components** or **squeezed pipes** on the inside of the indoor and outdoor units.
☐	There are NO **refrigerant leaks**.
☐	The correct pipe size is installed and the **pipes** are properly insulated.
☐	The **stop valves** (gas and liquid) on the outdoor unit are fully open.

10.3 To perform a test run

Prerequisite: The power supply MUST be in the specified range.

Prerequisite: Test run may be performed in cooling or heating mode.

Prerequisite: Refer to the operation manual of the indoor unit for setting temperature, operation mode….

1. In cooling mode, select the lowest programmable temperature. In heating mode, select the highest programmable temperature. The test run can be disabled if necessary.
2. When the test run is finished, set the temperature to a normal level. In cooling mode: 26~28°C, in heating mode: 20~24°C.
3. Make sure that all functions and parts are working properly.
4. The system stops operating 3 minutes after the unit is turned OFF.

10.3.1 To perform a test run using the wireless remote control

1. Press ··· to enter main menu and navigate to “Wireless remote control settings menu” by < and >. Press ✓ to enter menu.
2. Navigate to “Software and version” screen by < and >.
3. Keep pressed ✓ for at least 5 seconds to enter “Self-diagnosis menu”.

Wireless remote control setting menu



Self-diagnosis menu



4. In the "Self-diagnosis menu", navigate to "Test run menu" by < and >.

Test run menu



5. Press ✓ to enter the menu.
6. Change status to ON by ^ and v.
7. Press ✓ to confirm the selection.

   Result: The indoor unit enter test run mode, during which normal operation is not possible.



Result: Test run operation will stop automatically after about 30 minutes.

8 Test run mode will stop if the ON/OFF button is pressed.

Result: The indoor units leave test operation mode.

9 Check the function of operation modes.

INFORMATION

You CANNOT set the Econo, Outdoor unit silent and Powerful operation or change the temperature setpoint during the test run.

10 Check the error code history. If required, solve the cause of the errors and perform the test operation again.

INFORMATION

- The test run is only completed if the indoor unit does not report any error code.
- See the service manual for the complete list of error codes and a detailed troubleshooting guideline for each error.

11 Configuration

INFORMATION

For “Configuration” using the wireless remote control, refer to the **user reference guide** located on https://qr.daikin.eu/?N=FTXJ-BW under “Documentation”.

- **Indoor unit setting:** brightness of the Daikin eye, open the front panel, wireless LAN connection, vertical airflow function, indoor unit installation position, keep dry function
- **Wireless remote control setting:** LCD contrast, LCD brightness, LCD turn off time, automatic send after select, channels of the indoor unit infrared receiver

11.1 On/Off contact

This function requires purchase and installation of the KER303A option.

For a description of the function, its purpose, and how it works, refer to the operation manual, chapter On/Off contact.

INFORMATION

The contact type and delay time are set in the service menu.

- Contact type: normally open (NO), normally closed (NC) - factory setting
- Delay time: 0 - factory setting, 1, 2, 3, 5 minutes

Example: normally closed (NC)

When the contact is closed (window closed, card in), the unit operates normally.

When the contact opens (window open, card out), the delay timer starts. The unit stops after the set delay time.

We recommend setting a delay time to prevent signal noise chattering.

INFORMATION

After the selected delay time (0, 1, 2, 3, 5 minutes), the unit stops and goes into standby.

While the contact status indicates window open:

- The ON/OFF command from the remote controller or the ONECTA app is disabled.
- Other settings, such as setpoint, mode, or fan speed, can still be changed, but they will only take effect after the unit restarts.

Note: Daikin recommends using a **normally closed (NC)** contact type. This prevents the unit from operating when the contact malfunctions.

Activation / Restart setting

The restart mode determines how the unit operates after the window is closed again.

Manual Restart

The unit does not restart automatically.

Operation must be restarted manually using the **remote controller** or the ONECTA app.

Auto Restart

The unit restarts automatically in the last operating mode after the window is closed.

11.1.1 To set On/Off contact

1 Enter the main menu by pressing ··· and navigate to the wireless remote control setting menu using < and >.

2 Press ✓ to enter the menu.

The wireless remote control setting menu



3 Navigate to SW info screen using < and >.

4 Keep pressed ✓ for at least 5 seconds.

Test run



5 Keep pressed ✓ for at least 5 seconds.

Password setting



6 Use the ^, ✓, >, and < to enter password 5902 and press ✓.

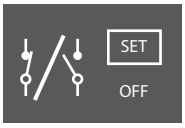
Inspection mode



7 Navigate to External contact setting using < and >.

8 Press ✓ to enter the Contact setting.

Contact setting



9 Keep pressed ✓ for at least 3 seconds.

10 Use ∧ and ∨ to select OFF, MANU, AUTO.

11 Press ✓.

Result: The display returns to Contact setting.

12 Use ‹ and › to navigate to Contact type.

Contact type



13 Keep pressed ✓ for at least 3 seconds.

14 Use ∧ and ∨ to select NO or NC.

15 Press ✓.

Result: The display returns to Contact type.

16 Use ‹ and › to navigate to Delay time setting

Delay time setting



17 Keep pressed ✓ for at least 3 seconds.

18 Use ∧ and ∨ to select the delay time: 0/1/2/3/5 min.

19 Press ✓.

20 Press ··· to return to the home screen or press ✓ to return to the Service menu

12 Hand-over to the user

Once the test run is finished and the unit operates properly, make sure the following is clear for the user:

- Make sure that the user has the printed documentation and ask him/her to keep it for future reference. Inform the user that he/she can find the complete documentation at the URL mentioned earlier in this manual.
- Explain to the user how to properly operate the system and what to do in case of problems.
- Show the user what to do for the maintenance of the unit.

13 Troubleshooting

13.1 Solving problems based on error codes

Fault diagnosis by the wireless remote control

If the unit runs into a problem, you can identify the fault by checking the error code by the wireless remote control. It is important to understand the problem and take measures before resetting the error code. This should be done by a licensed installer or your local dealer.

To check the error code by the wireless remote control

1 Press ··· to enter the main menu and navigate to the wireless remote control settings menu using < and >.

Wireless remote control setting menu



Software version (self-diagnosis menu)



2 Press ⌄ to enter the menu.

3 Navigate to the software and version screen using < and >.

4 Keep ⌄ pressed for at least 5 seconds to enter the self-diagnosis menu.

5 Navigate to the error code indication screen using < and >. Press ⌄ to confirm your selection.

Error code indication



Error code list



6 Aim the wireless remote control at the unit and scroll through the list of error codes using < and >, until you hear a long beep.

Result: A long beep indicates the corresponding error code.

7 Press ··· to return to the home screen or press ⌄ to return to the self-diagnosis menu.

INFORMATION

See the service manual for:

- The complete list of error codes
- A more detailed troubleshooting guideline for each error

Position	Error code	Description
1	00	Normal
2	A5	Outdoor unit: High pressure peak cut / freeze protection problem
3	E7	Outdoor unit: Malfunction of outdoor unit fan motor
4	F3	Outdoor unit: Malfunction of discharge pipe temperature

Position	Error code	Description
5	F6	Outdoor unit: Abnormal high pressure in cooling
6	L3	Outdoor unit: Electrical box temperature rise problem
7	L4	Outdoor unit: Malfunction of inverter radiating fin temperature rise
8	L5	Outdoor unit: Inverter instantaneous overcurrent
9	U4	Indoor/outdoor unit communication problem
10	E6	Outdoor unit: Compressor startup defect
11	H6	Outdoor unit: Malfunction of position detection sensor
12	H0	Outdoor unit: Voltage/current sensor problem
13	A6	Indoor unit fan motor abnormality
14	U0	Outdoor unit: Shortage of refrigerant
15	C7	Indoor unit: Opening or closing front panel error
16	A3	Indoor unit: Drain level control system abnormality
17	H8	Outdoor unit: Malfunction of compressor input system
18	H9	Outdoor unit: Malfunction of outdoor air thermistor
19	C9	Room thermistor abnormality
20	CC	Humidity sensor abnormality
21	C4	Heat exchanger temperature sensor problem
22	C5	Gas pipe thermistor for heat exchanger problem
23	J3	Outdoor unit: Malfunction of discharge pipe thermistor
24	J6	Outdoor unit: Malfunction of heat exchanger thermistor
25	J8	Refrigerant circuit thermistor problem
26	E5	Outdoor unit: Overheat of inverter compressor motor
27	A1	PCB abnormality
28	E1	Outdoor unit: PCB defect
29	UA	Indoor unit, outdoor unit mismatching problem
30	U3	Check operation not executed or transmission error
31	UH	Malfunction of system
32	P4	Outdoor unit: Malfunction of radiating fin temperature sensor
33	H7	Outdoor unit: Malfunction of outdoor unit fan motor signal
34	U2	Outdoor unit: Defect of power supply voltage
35	EA	Outdoor unit: Cool/heat switchover problem
36	AH	Indoor unit: Streamer unit abnormality
37	FA	Outdoor unit: Abnormal high pressure actuation of high pressure switch
38	E3	Outdoor unit: Actuation of high pressure switch
39	H3	Outdoor unit: Malfunction of high pressure switch

Position	Error code	Description
40	F8	System shutdown due to compressor internal temperature abnormality
41	E8	Outdoor unit: Power input overvoltage
42	P9	Outdoor unit: Automatic refrigerant charge operation completed

14 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.

15 Technical data

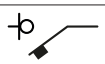
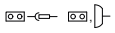
- A **subset** of the latest technical data is available on the regional Daikin website (publicly accessible).
- The **full set** of the latest technical data is available on the Daikin Library (authentication required).

15.1 Wiring diagram

The wiring diagram is delivered with the unit, located on the inner right side of the indoor unit front grille.

15.1.1 Unified wiring diagram legend

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

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

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

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

Symbol	Meaning
C*	Capacitor
AC*, CN*, E*, HA*, HE*, HL*, HN*, HR*, MR*_A, MR*_B, S*, U, V, W, X*A, K*R_*, NE	Connection, connector
D*, V*D	Diode
DB*	Diode bridge
DS*	DIP switch
E*H	Heater
FU*, F*U, (for characteristics, refer to PCB inside your unit)	Fuse
FG*	Connector (frame ground)
H*	Harness
H*P, LED*, V*L	Pilot lamp, light emitting diode
HAP	Light emitting diode (service monitor green)
HIGH VOLTAGE	High voltage
IES	Intelligent eye sensor
IPM*	Intelligent power module
K*R, KCR, KFR, KHuR, K*M	Magnetic relay
L	Live
L*	Coil
L*R	Reactor
M*	Stepper motor
M*C	Compressor motor
M*F	Fan motor
M*P	Drain pump motor
M*S	Swing motor
MR*, MRCW*, MRM*, MRN*	Magnetic relay
N	Neutral
NE	Noiseless earth
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

Symbol	Meaning
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

16 Glossary

Dealer

Sales distributor for the product.

Authorised installer

Technical skilled person who is qualified to install the product.

User

Person who is owner of the product and/or operates the product.

Applicable legislation

All international, European, national and local directives, laws, regulations and/or codes that are relevant and applicable for a certain product or domain.

Service company

Qualified company which can perform or coordinate the required service to the product.

Installation manual

Instruction manual specified for a certain product or application, explaining how to install, configure and maintain it.

Operation manual

Instruction manual specified for a certain product or application, explaining how to operate it.

Maintenance instructions

Instruction manual specified for a certain product or application, which explains (if relevant) how to install, configure, operate and/or maintain the product or application.

Accessories

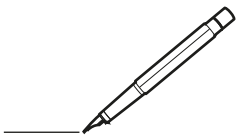
Labels, manuals, information sheets and equipment that are delivered with the product and that need to be installed according to the instructions in the accompanying documentation.

Optional equipment

Equipment made or approved by Daikin that can be combined with the product according to the instructions in the accompanying documentation.

Field supply

Equipment NOT made by Daikin that can be combined with the product according to the instructions in the accompanying documentation.



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