



Installation manual

Daikin room air conditioner



CTXM15R2V1B
CTXM15R5V1B

FTXM20R2V1B
FTXM20R5V1B
FTXM25R2V1B
FTXM25R5V1B
FTXM35R2V1B
FTXM35R5V1B
FTXM42R2V1B
FTXM42R5V1B
FTXM50R2V1B
FTXM60R2V1B
FTXM71R2V1B

ATXM20R2V1B
ATXM20R5V1B
ATXM25R2V1B
ATXM25R5V1B
ATXM35R2V1B
ATXM35R5V1B
ATXM50R2V1B

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1 About the documentation

1.1 About this document

**INFORMATION**

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

Target audience

Authorised installers

**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: Paper (in the box of the indoor unit)
- **Indoor unit installation manual:**
 - Installation instructions
 - Format: Paper (in the box of the indoor unit)
- **Installer reference guide:**
 - Preparation of the installation, good practices, reference data,...
 - Format: Digital files

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.

Unit installation (see "5 Unit installation" [▶ 4])

**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 place objects below the indoor and/or outdoor unit that may get wet. Otherwise condensation on the main unit or refrigerant pipes, air filter dirt or drain blockage may cause dripping, and objects under the unit may get dirty or damaged.



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 "6 Piping installation" ▶ 7)



DANGER: RISK OF BURNING/SCALDING



CAUTION

- 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.
- Do NOT reuse joints.



CAUTION

- 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.



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 "7 Electrical installation" ▶ 8)



DANGER: RISK OF ELECTROCUTION



WARNING

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



WARNING

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



WARNING

ALWAYS use multicore cable for power supply cables.



WARNING

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



WARNING

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



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.

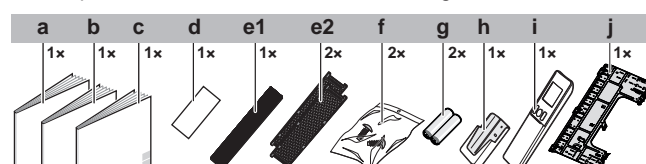
3 About the box

3.1 Indoor unit

3.1.1 To remove the accessories from the indoor unit

1 Remove:

- the accessory bag located at the bottom of the package,
- the mounting plate attached to the back of the indoor unit,
- the spare SSID sticker located on the front grille.



- a Installation manual
- b Operation manual
- c General safety precautions
- d Spare SSID sticker
- e1 **Class 15~42:** Silver allergen removal air purifying filter (without frame)
- e2 **Class 50~71:** Titanium apatite deodorising filter and silver allergen removal air purifying filter (with frame)
- f Indoor unit fixing screw (M4x12L). Refer to "8.3 To fix the unit on the mounting plate" ▶ 9].
- g Dry battery AAA.LR03 (alkaline) for user interface
- h User interface holder
- i User interface
- j Mounting plate

- **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).

4 About the unit



WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.

5 Unit installation

4.1 About the wireless LAN

For detailed specifications, installation instructions, setting methods, FAQ, declaration of conformity and the latest version of this manual



INFORMATION

- 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.
- This unit is considered as combined equipment according to the definition of Directive 2014/53/EU.

4.1.1 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.

4.1.2 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 Unit installation

5.1 Preparing the installation site



WARNING

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

5.1.1 Installation site requirements of the indoor unit

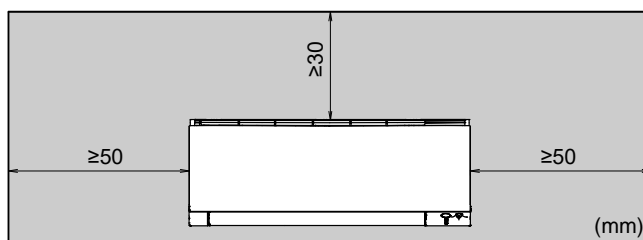


INFORMATION

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 or the floor is strong enough to support the weight of the unit. If there is a risk, reinforce the wall or the floor before installing the unit.

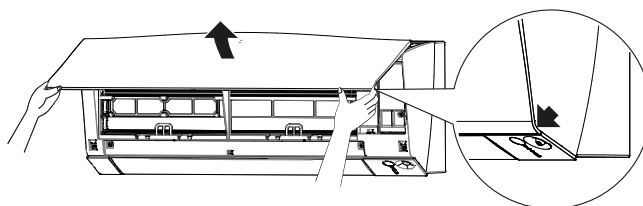
- Spacing.** Install the unit at least 1.8 m from the floor and keep the following requirements in mind for distances from the walls and the ceiling:



5.2 Opening the indoor unit

5.2.1 To remove the front panel

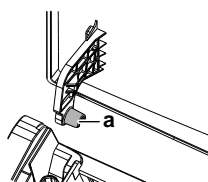
- Hold the front panel by the panel tabs on both sides and open it.



- Remove the front panel by sliding it to the left or the right and pulling it toward you.

Result: The front panel shaft on 1 side will be disconnected.

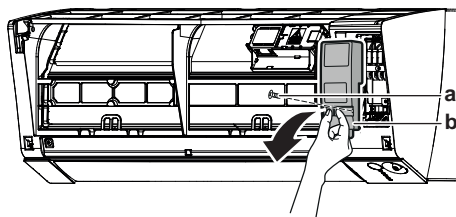
- Disconnect the front panel shaft on the other side in the same manner.



a Front panel shaft

5.2.2 To open the service cover

- Remove 1 screw from the service cover.
- Pull out the service cover horizontally away from the unit.



a Service cover screw
b Service cover

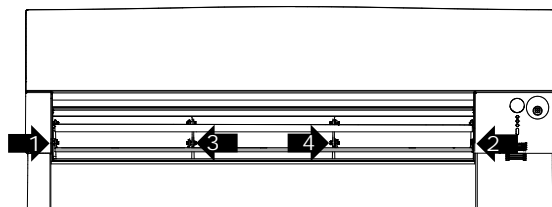
5.2.3 To remove the front grille



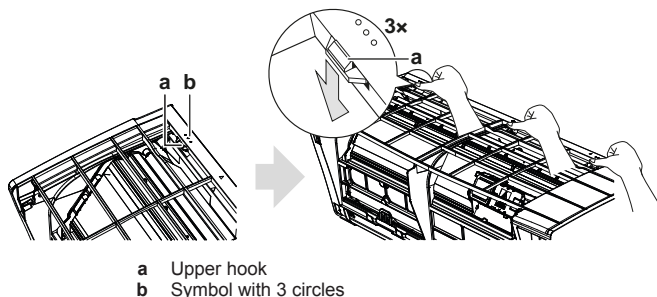
CAUTION

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

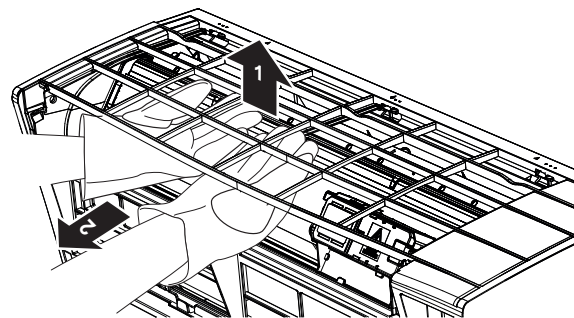
- Remove the front panel to remove the air filter.
- For class 50~71** remove the flap (horizontal blade). Push the blade on its left side to the centre and unhook it. Push blade on its right side to centre to unhook it from shaft. Disconnect the 2 centre connection points.



- 3 Remove 2 screws (class 15~42) or 3 screws (class 50~71) from the front grille.
- 4 Push down the 3 upper hooks marked with a symbol with 3 circles.



- 5 We recommend opening the flap before removing the front grille.
- 6 Place both hands under the centre of the front grille, push it up and then toward you.

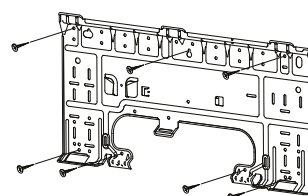


5.3 Mounting the indoor unit

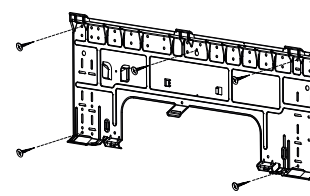
5.3.1 To install the mounting plate

- 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).

Class 15~42



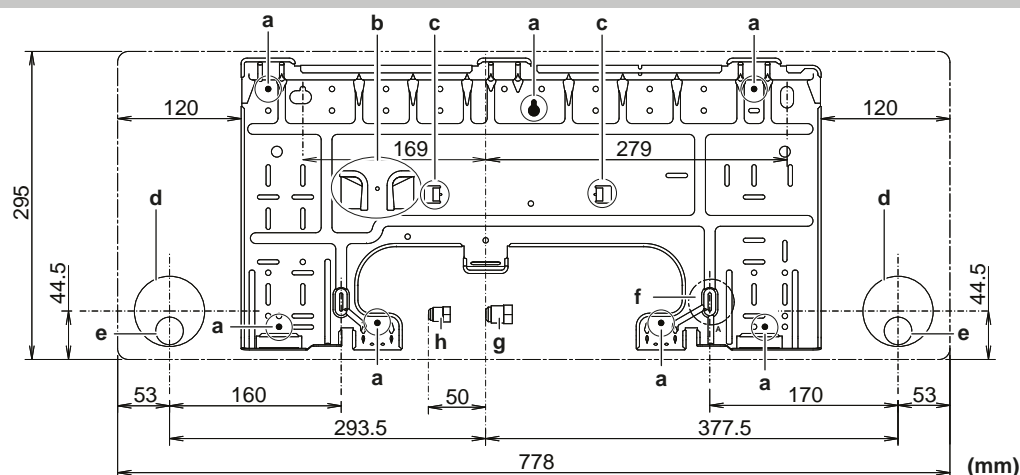
Class 50~71



INFORMATION

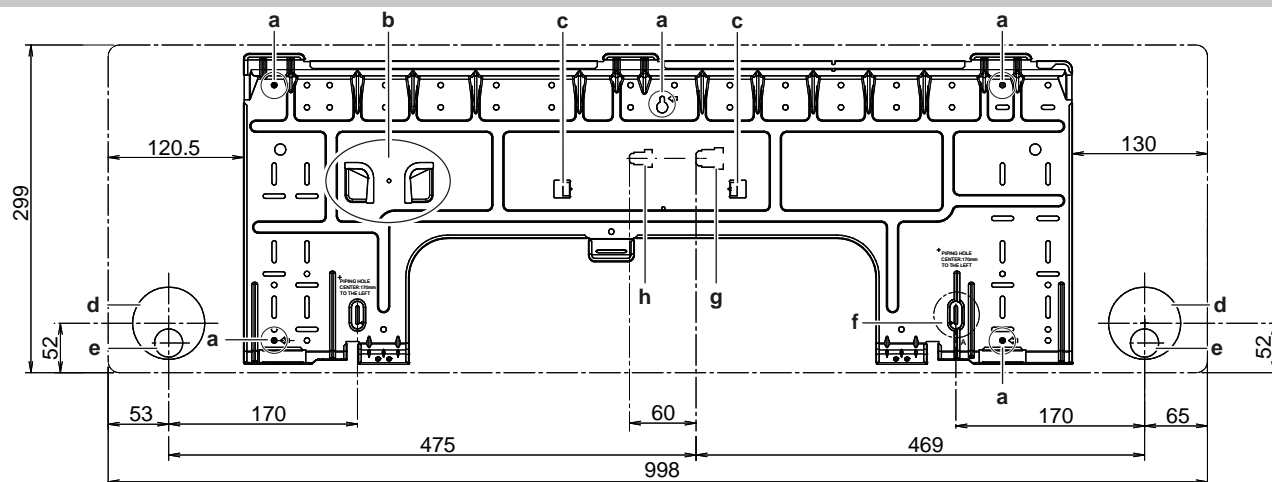
The removed pipe port cover can be kept in the mounting plate pocket.

A



5 Unit installation

B



(mm)

- A For class: 15~42
- B For class: 50~71
- a Recommended mounting plate fixing spots
- b Pocket for the pipe port cover
- c Tabs for placing a spirit level
- d Through-the-wall hole:
Class 15~42 Ø65 mm
Class 50~71 Ø80 mm

- f Position for the tape measure at symbol "▷"
- g Gas pipe end
- h Liquid pipe end
- e Drain hose position

5.3.2 To drill a wall hole



CAUTION

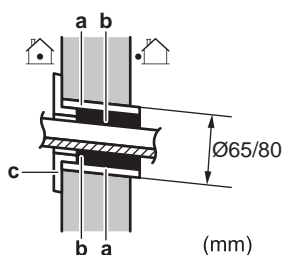
For walls containing a metal frame or a metal board, use a wall embedded pipe and wall cover in the feed-through hole to prevent possible heat, electrical shock, or fire.



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 (class 15~42) or 80 mm (class 50~71) 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.



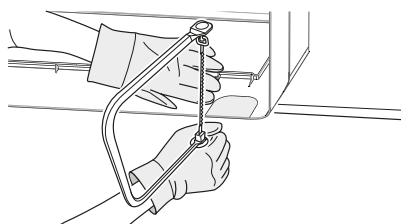
- a Wall embedded pipe
- b Putty
- c Wall hole cover

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

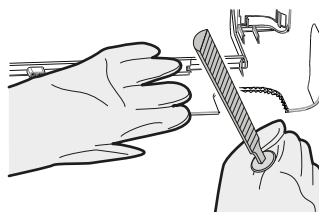
5.3.3 To remove the pipe port cover

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.

5.4 Connecting the drain piping

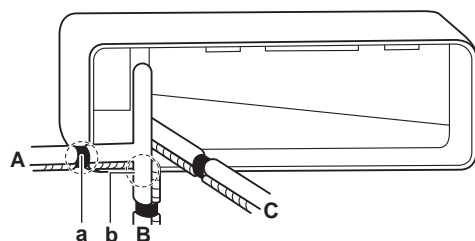
5.4.1 To connect the piping on right side, right-back, or right-bottom



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

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

! INFORMATION

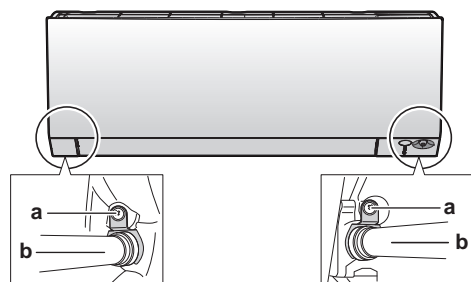
The factory default is right-side piping. For left-side piping, remove the piping from the right side and install it on the left side.

- 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

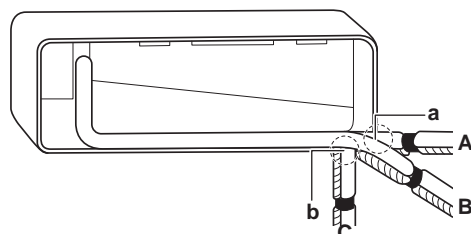
Do NOT apply lubricating oil (refrigerant oil) to the drain plug when inserting it. The drain plug may deteriorate and cause drain leakage from the plug.

- 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

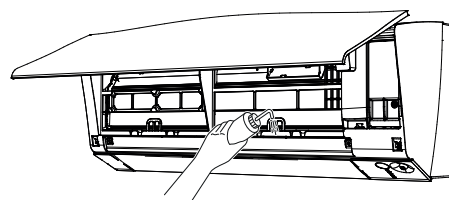
- 4 Attach the drain hose to the refrigerant piping bottom side using adhesive vinyl tape.



- 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

5.4.3 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.



6 Piping installation

6.1 Preparing refrigerant piping

6.1.1 Refrigerant piping requirements



NOTICE

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

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

Refrigerant piping diameter

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

Class	Pipe outer diameter (mm)	
	Liquid pipe	Gas pipe
15~42	Ø6.4	Ø9.5
50~60	Ø6.4	Ø12.7
71	Ø6.4	Ø15.9

Refrigerant piping material

- Piping material:** Phosphoric acid deoxidised seamless copper.
- Flare connections:** Only use annealed material.
- Piping temper grade and thickness:**

Outer diameter (Ø)	Temper grade	Thickness (t) ^(a)	
6.4 mm (1/4")	Annealed (O)	≥ 0.8 mm	
9.5 mm (3/8")			
12.7 mm (1/2")			
15.9 mm (5/8")			

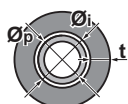
^(a) Depending on the applicable legislation and the maximum working pressure of the unit (see "PS High" on the unit name plate), larger piping thickness might be required.

6.1.2 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")	10~14 mm	≥ 13 mm
12.7 mm (1/2")	14~16 mm	≥ 13 mm
15.9 mm (5/8")	16~20 mm	≥ 13 mm

7 Electrical installation



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.

6.2 Connecting the refrigerant piping



DANGER: RISK OF BURNING/SCALDING

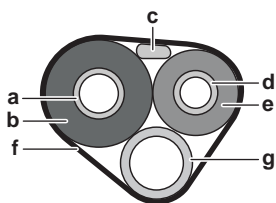
6.2.1 To connect the refrigerant piping to the indoor unit



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 **Insulate** the refrigerant piping, interconnection cable and drain hose on the indoor unit as follows:



- a Gas pipe
- b Gas pipe insulation
- c Interconnection cable
- d Liquid pipe
- e Liquid pipe insulation
- f Finishing tape
- g Drain hose



NOTICE

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

7 Electrical installation



DANGER: RISK OF ELECTROCUTION



WARNING

ALWAYS use multicore cable for power supply cables.



WARNING

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



WARNING

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



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.

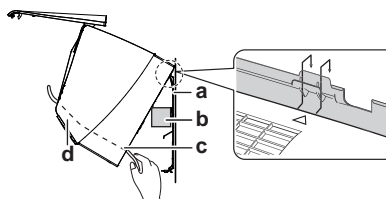
7.1 Specifications of standard wiring components

Component	
Interconnection cable (indoor↔outdoor)	4-core cable 1.5 mm ² ~2.5 mm ² and applicable for 220~240 V H05RN-F (60245 IEC 57)

7.2 To connect the electrical wiring to the indoor unit

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.

- 2 Open the front panel, and then the service cover. Refer to "5.2 Opening the indoor unit" [p. 4].
- 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.



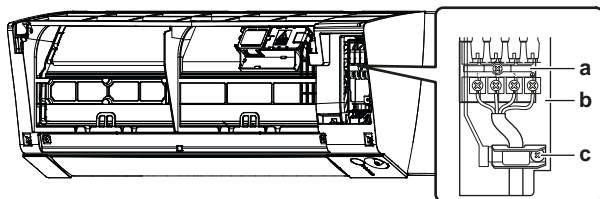
NOTICE

- 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.
- In order to avoid any electrical interference the distance between both wirings should ALWAYS be at least 50 mm.



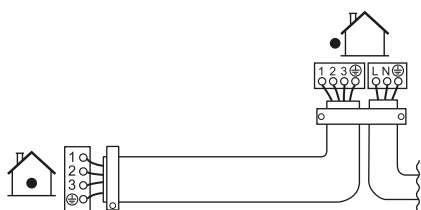
WARNING

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.



- a Terminal block
- b Electrical component block
- c Cable clamp

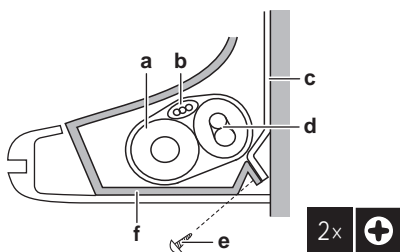
- 5 Strip the wire ends approximately 15 mm.
- 6 Match wire colours with terminal numbers on the indoor unit terminal blocks and firmly screw the wires to the corresponding terminals.
- 7 Connect the earth wire to the corresponding terminal.
- 8 Firmly fix the wires with the terminal screws.
- 9 Pull 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 Finishing the indoor unit installation

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

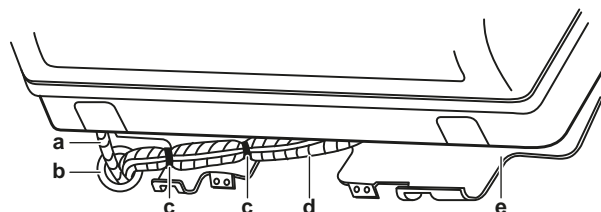
- 1 After the drain piping, refrigerant piping and the electrical wiring are finished. Wrap refrigerant pipes, interconnection cable and drain hose together using insulation tape. Overlap at least half the width of the tape with each turn.



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

8.2 To pass the pipes through the wall hole

- 1 Shape the refrigerant pipes along the pipe path marking on the mounting plate.

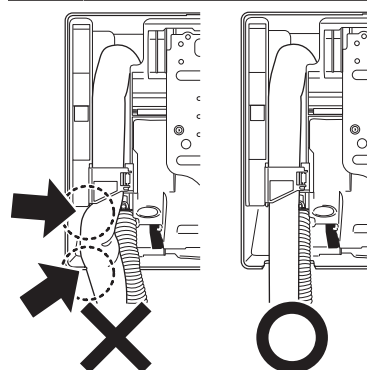


- a Drain hose
- b Caulk this hole with putty or caulking material
- c Adhesive vinyl tape
- d Insulation tape
- e Mounting plate (accessory)



NOTICE

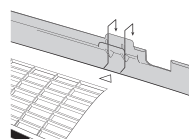
- Do NOT bend refrigerant pipes.
- Do NOT push the refrigerant pipes onto the bottom frame or the front grille.



- 2 Pass the drain hose and refrigerant pipes through the wall hole.

8.3 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).

8.4 To close the indoor unit

8.4.1 To re-install the front grille

- 1 Install the front grille and firmly engage the 3 upper hooks.
- 2 Install 2 screws (class 15~42) or 3 screws (class 50~71) back on the front grille.

9 Commissioning

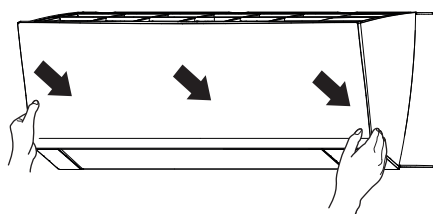
- 3 For class 50~71 re-install the lower flap (horizontal blade). Connect the 2 centre connection points. Hook the right side of the blade to the shaft. Hook the blade on its left side.
- 4 Install the air filter, mount the front panel and close it.

8.4.2 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.

8.4.3 To re-install the front panel

- 1 Attach the front panel. Align the shafts with the slots and push them all the way in.
- 2 Close the front panel slowly; press at both sides and at the centre.



9 Commissioning



NOTICE

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

9.1 Checklist before commissioning

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

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

<input type="checkbox"/>	The indoor unit receives the signals of the user interface .
<input type="checkbox"/>	There are NO loose connections or damaged electrical components in the switch box.
<input type="checkbox"/>	The insulation resistance of the compressor is OK.
<input type="checkbox"/>	There are NO damaged components or squeezed pipes on the inside of the indoor and outdoor units.
<input type="checkbox"/>	There are NO refrigerant leaks .
<input type="checkbox"/>	The correct pipe size is installed and the pipes are properly insulated.
<input type="checkbox"/>	The stop valves (gas and liquid) on the outdoor unit are fully open.

9.2 To perform a test run




Prerequisite: Power supply MUST be in the specified range.

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

Prerequisite: Test run should be performed in accordance with the operation manual of the indoor unit to make sure that all functions and parts are working properly.

- 1 In cooling mode, select the lowest programmable temperature. In heating mode, select the highest programmable temperature. 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 The system stops operating 3 minutes after the unit is turned OFF.

9.2.1 To perform a test run using the user interface

- 1 Press  to switch the system on.
- 2 Press  and **Mode** simultaneously.
- 3 Press , select **7** and press **Mode**.

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

- 4 To stop operation sooner, press .

10 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).

10.1 Wiring diagram

10.1.1 Unified wiring diagram legend

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

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

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

Symbol	Meaning
A*P	Printed circuit board
BS*	Pushbutton ON/OFF, operation switch
BZ, H*O	Buzzer
C*	Capacitor
AC*, CN*, E*, HA*, HE*, HL*, HN*, HR*, MR*_A, MR*_B, S*, U, V, W, X*A, K*R_*, NE	Connection, connector
D*, V*D	Diode
DB*	Diode bridge
DS*	DIP switch
E*H	Heater
FU*, F*U, (for characteristics, refer to PCB inside your unit)	Fuse
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

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

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