



Installation manual

Daikin room air conditioner



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Installation manual
Daikin room air conditioner

English

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Shigeki Morita
Director
Ostend, 1st of May 2018

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Zandvoordestraat 300, B-8400 Oostende, Belgium

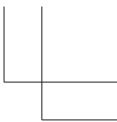


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1 About the documentation

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

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

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

Technical engineering data

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

2 About the box

2.1 Indoor unit



INFORMATION

The following figures are just examples and may NOT completely match your system layout.

2.1.1 To remove the accessories from the indoor unit

3 About the unit



WARNING: FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.

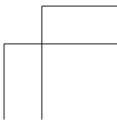
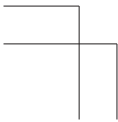
3.1 System layout

3.2 Operation range

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

Operation mode	Operation range
Cooling ^{(a)(b)}	▪ Outdoor temperature: –10~46°C ▪ Indoor temperature: 18~32°C ▪ Indoor humidity: ≤80%
Heating ^(a)	▪ Outdoor temperature: –15~24°C ▪ Indoor temperature: 10~30°C
Drying ^(a)	▪ Outdoor temperature: –10~46°C ▪ Indoor temperature: 18~32°C ▪ Indoor humidity: ≤80%

If operated outside the operation range:



4 Preparation

- (a) A safety device might stop the operation of the system.
(b) Condensation might occur on the indoor unit and drip.

4 Preparation

4.1 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).

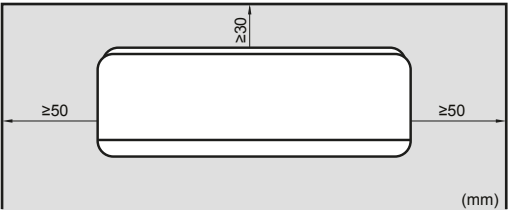
4.1.1 Installation site requirements of the indoor unit



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:



4.2 Preparing refrigerant piping

4.2.1 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	L1 liquid piping	L1 gas piping
20~35	Ø6.4	Ø9.5

Refrigerant piping material

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

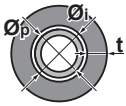
Outer diameter (Ø)	Temper grade	Thickness (t) ^(a)	
6.4 mm (1/4")	Annealed (O)	≥0.8 mm	

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

4.2.2 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



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.

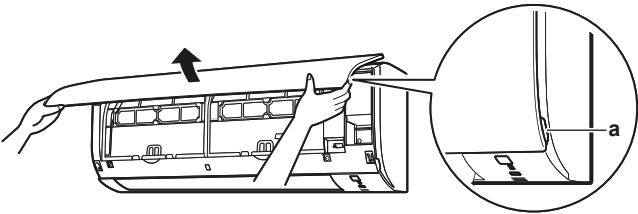
5 Installation

5.1 Opening the units

5.1.1 To open the indoor unit

To remove the front panel

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

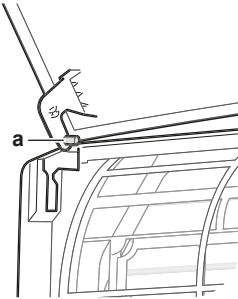


a Panel tabs

- 2 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.

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



5 Installation

a Front panel shaft

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.

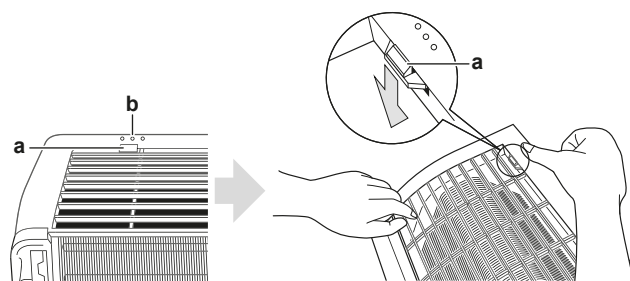
To remove the front grille



CAUTION

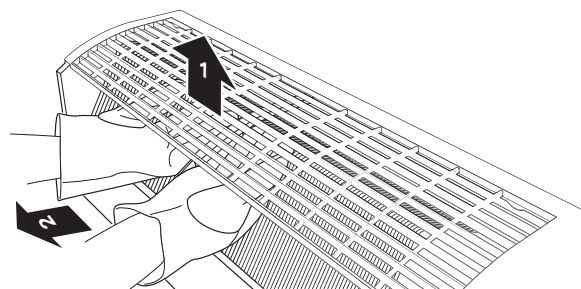
Wear adequate personal protective equipment (protective gloves, safety glasses,...) when installing, maintaining or servicing the system.

- 1 Remove the front panel to remove the air filter.
- 2 Remove 2 screws from the front grille.
- 3 Push down the 3 upper hooks marked with a symbol with 3 circles.



a Upper hook
b Symbol with 3 circles

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



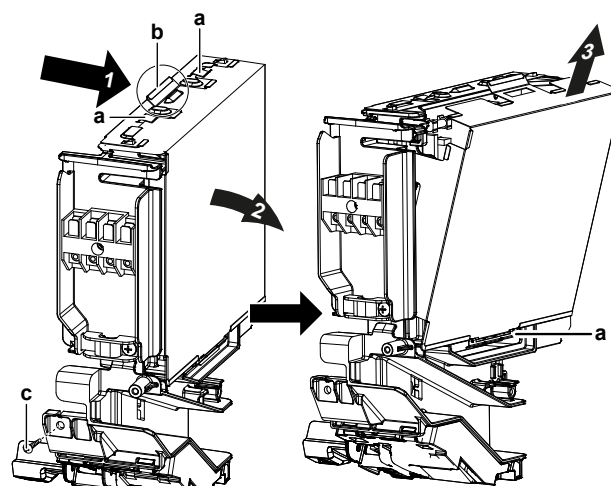
To re-install the front grille

- 1 Install the front grille and firmly engage the 3 upper hooks.
- 2 Install 2 screws (class 20~35) back on the front grille.
- 3 Install the air filter and then mount the front panel.

To remove the electrical wiring box cover

- 1 Remove the front grille.
- 2 Remove 1 screw from the electrical wiring box.

- 3 Open the electrical wiring box cover by pulling the protruding part on the top of the cover.
- 4 Unhook the tab on the bottom and remove the electrical wiring box cover.

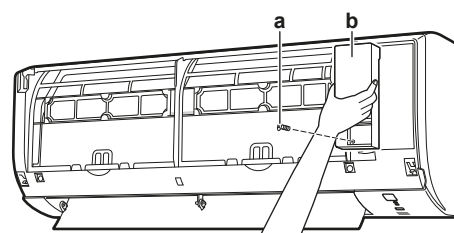


a Tab
b Protruding part on the top of the cover
c Screw

- 5 To re-install the cover, first hook the bottom tab onto the electrical wiring box, and slide the cover into the 2 upper tabs.

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 screw
b Service cover

5.2 Installing the indoor unit

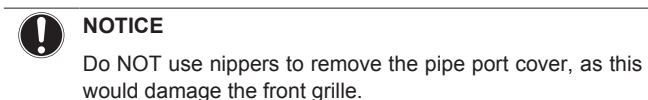
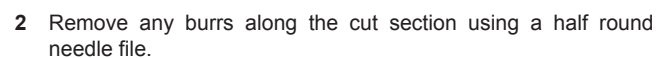
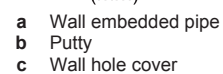
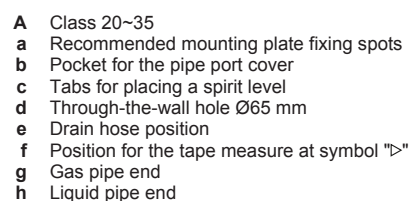
5.2.1 To install the mounting plate

- 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).



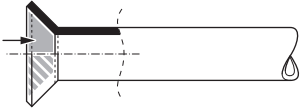
INFORMATION

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

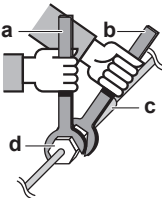


5 Installation

- 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 2 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.

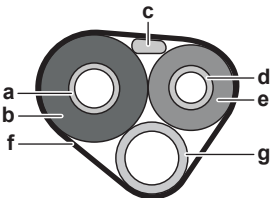


a Torque wrench
b Spanner
c Piping union
d Flare nut

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	

5.3.2 To connect the refrigerant piping to the indoor unit

- Pipe length.** Keep refrigerant piping as short as possible.
- Flare connections.** Connect refrigerant piping to the unit using flare connections.
- Insulation.** Insulate the refrigerant piping, 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.

5.4 Connecting the electrical wiring



DANGER: RISK OF ELECTROCUTION



WARNING

ALWAYS use multicore cable for power supply cables.



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.



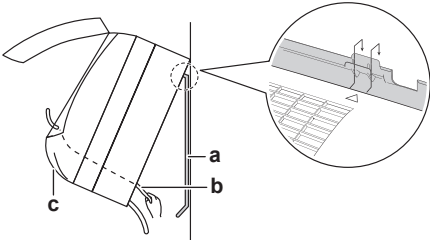
WARNING

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

5.4.1 To connect the electrical wiring on 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.

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



a Mounting plate (accessory)
b Interconnection cable
c Wire guide

- Open the front panel, and then the service cover. Refer to "5.1.1 To open the indoor unit" [p. 6].
- 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.

- Bend the end of the cable up.



NOTICE

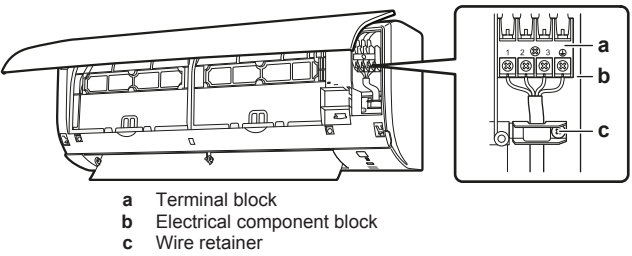
- Be sure to keep the power line and transmission line apart from each other. Transmission wiring and power supply wiring may cross, but may NOT run parallel.
- In order to avoid any electrical interference the distance between both wirings should ALWAYS be at least 50 mm.



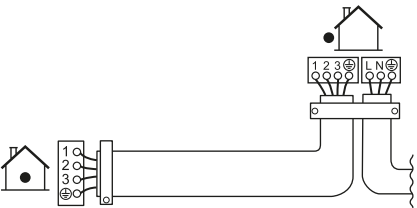
WARNING

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.

6 Configuration



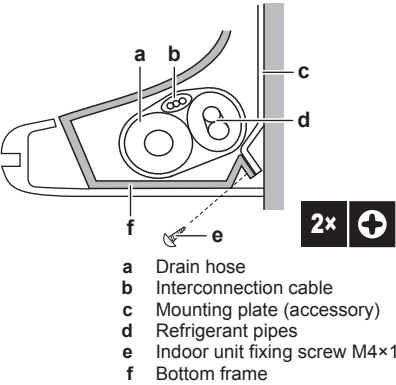
- Strip the wire ends approximately 15 mm.
- Match wire colours with terminal numbers on the indoor unit terminal blocks and firmly screw the wires to the corresponding terminals.
- Connect the earth wire to the corresponding terminal.
- Firmly fix the wires with the terminal screws.
- Pull the wires to make sure that they are securely attached, then retain the wires with the wire retainer.
- Shape the wires so that the service cover fits securely, then close the service cover.



5.5 Finishing the indoor unit installation

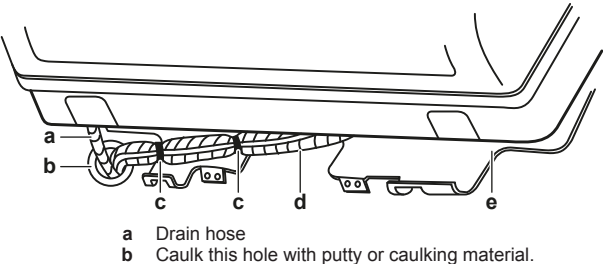
5.5.1 To insulate the drain piping, refrigerant piping and interconnection cable

- 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.



5.5.2 To pass the pipes through the wall hole

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

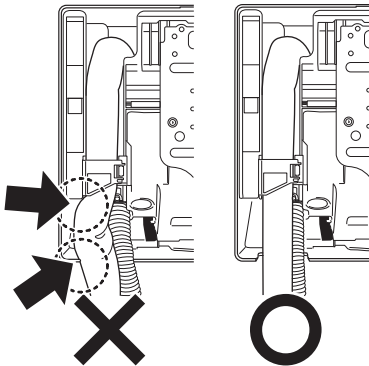


- c Adhesive vinyl tape
d Insulation tape
e Mounting plate (accessory)



NOTICE

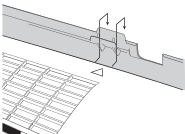
- Do NOT bend refrigerant pipes.
- Do NOT push the refrigerant pipes onto the bottom frame or the front grille.



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

5.5.3 To fix the unit on the mounting plate

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



- 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.

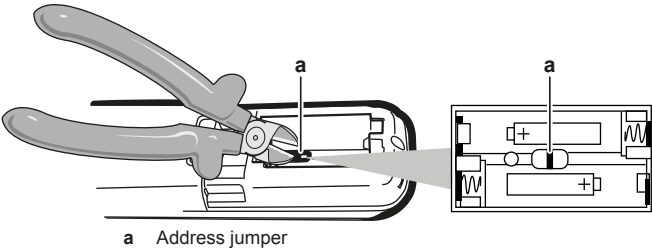
- Press the bottom edge of the indoor unit with both hands until it is firmly caught by the mounting plate hooks.
- Secure the indoor unit to the mounting plate using 2 indoor unit fixing screws M4×12L (accessory).

6 Configuration

6.1 To set a different address

In case 2 indoor units are installed in 1 room, different addresses for 2 user interfaces can be set.

- Remove the batteries from the user interface.
- Cut the address jumper.



NOTICE

Be careful NOT to damage any of the surrounding parts when cutting the address jumper.

7 Commissioning

3 Turn the power supply on.

Result: The flap of the indoor unit will open and close to set the reference position.

INFORMATION

- For FTXF units, the following setting MUST be completed within 5 minutes after the power supply is turned on.
- In case you could NOT complete the setting in time, turn the power supply off and wait at least 1 minute before turning the power supply back on.

4 Press simultaneously:

Model	Buttons
FTXP and ATP	TEMP, TEMP and OFF
FTXF	MODE, TEMP and TEMP

5 Press:

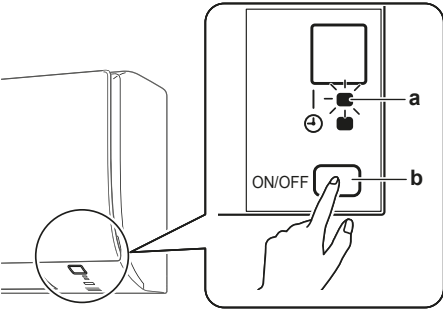
Model	Button
FTXP and ATP	TEMP
FTXF	MODE

6 Select:

Model	Symbol
FTXP and ATP	R
FTXF	7

7 Press:

Model	Button
FTXP and ATP	FAN
FTXF	



- a Operation lamp
- b Indoor unit ON/OFF switch

8 Press the indoor unit ON/OFF switch while the operation lamp is blinking.

Jumper	Address
Factory setting	1
After cutting with nippers	2

INFORMATION

If the setting could NOT be completed while the operation lamp was blinking, repeat the setting process from the beginning.

9 When the setting is complete, press:

Model	Button
FTXP and ATP	Keep FAN pressed for about 5 seconds.
FTXF	

Result: The user interface will return to the previous screen.

7 Commissioning

NOTICE

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

7.1 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.

☐	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 or locally installed protection devices are installed according to this document, and have NOT been bypassed.
☐	The power supply voltage matches the voltage on the identification label of the unit.
☐	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.

7.2 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.

8 Disposal

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.

7.2.1 To perform a test run in winter season

When operating the air conditioner in **Cooling** mode in winter, set it to test run operation using the following method.

For FTXP and ATXP units

- 1 Press , , and  simultaneously.
- 2 Press .
- 3 Select .
- 4 Press .
- 5 Press  to switch the system on.
Result: Test run operation will stop automatically after about 30 minutes.
- 6 To stop operation, press .

For FTXF units

- 7 Press  to switch the system on.
- 8 Press the centre of , , and  simultaneously.
- 9 Press  twice.
Result:  will appear on the display. Test run operation is selected. Test run operation will stop automatically after about 30 minutes.
- 10 To stop operation, press .



INFORMATION

Some of the functions CANNOT be used in the test run operation mode.

If a power failure occurs during operation, the system automatically restarts immediately after power is restored.

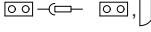
8 Disposal

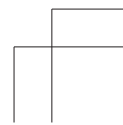
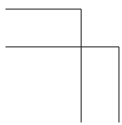
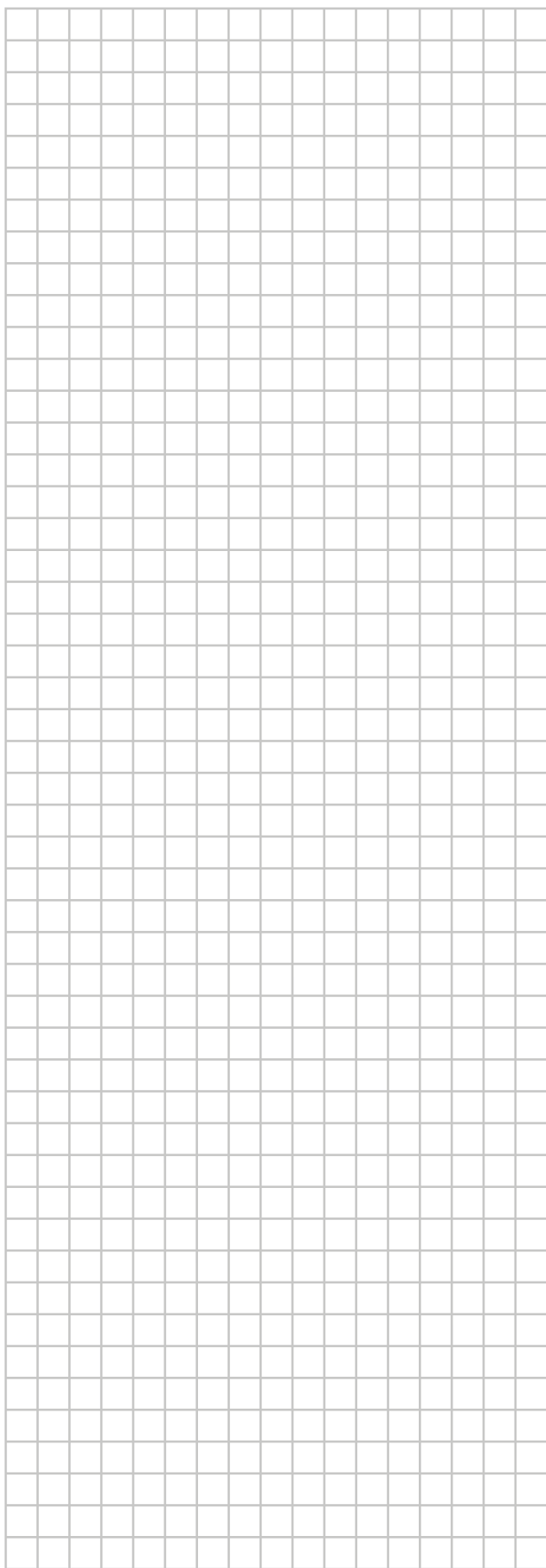
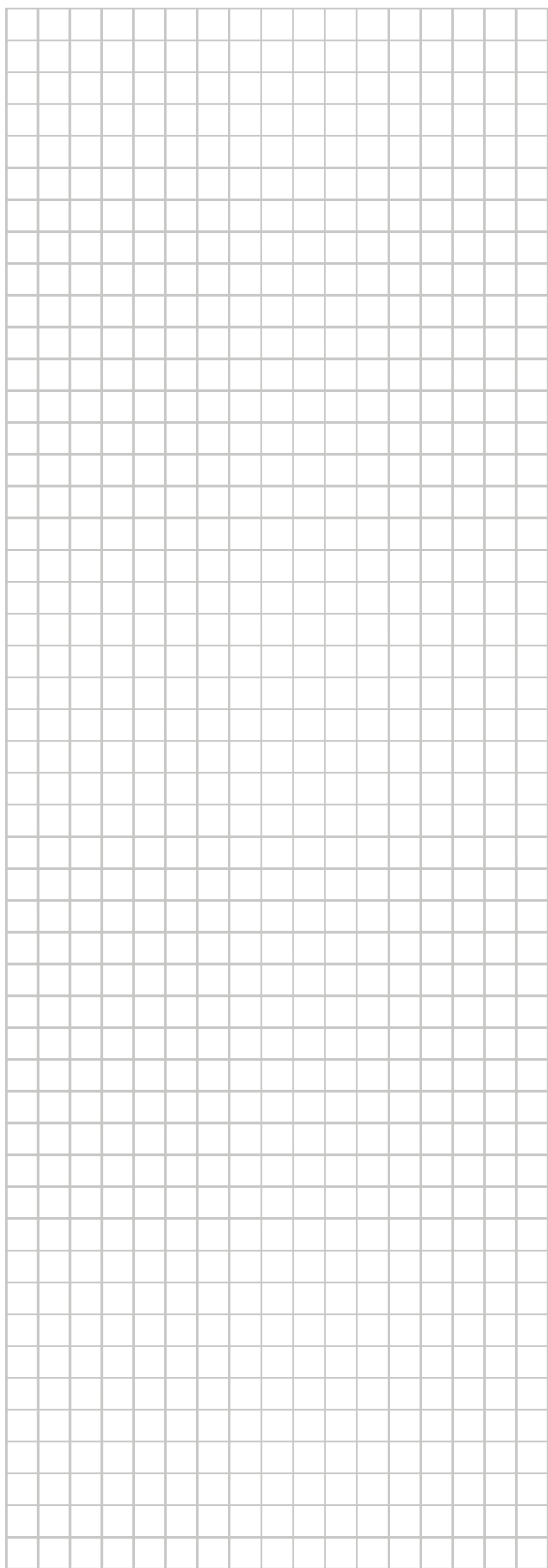
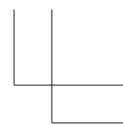
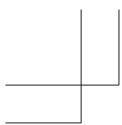
Dismantling of the unit and treatment of the refrigerant, oil and other parts MUST comply with the applicable legislation.

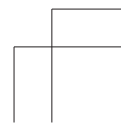
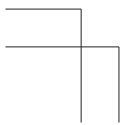
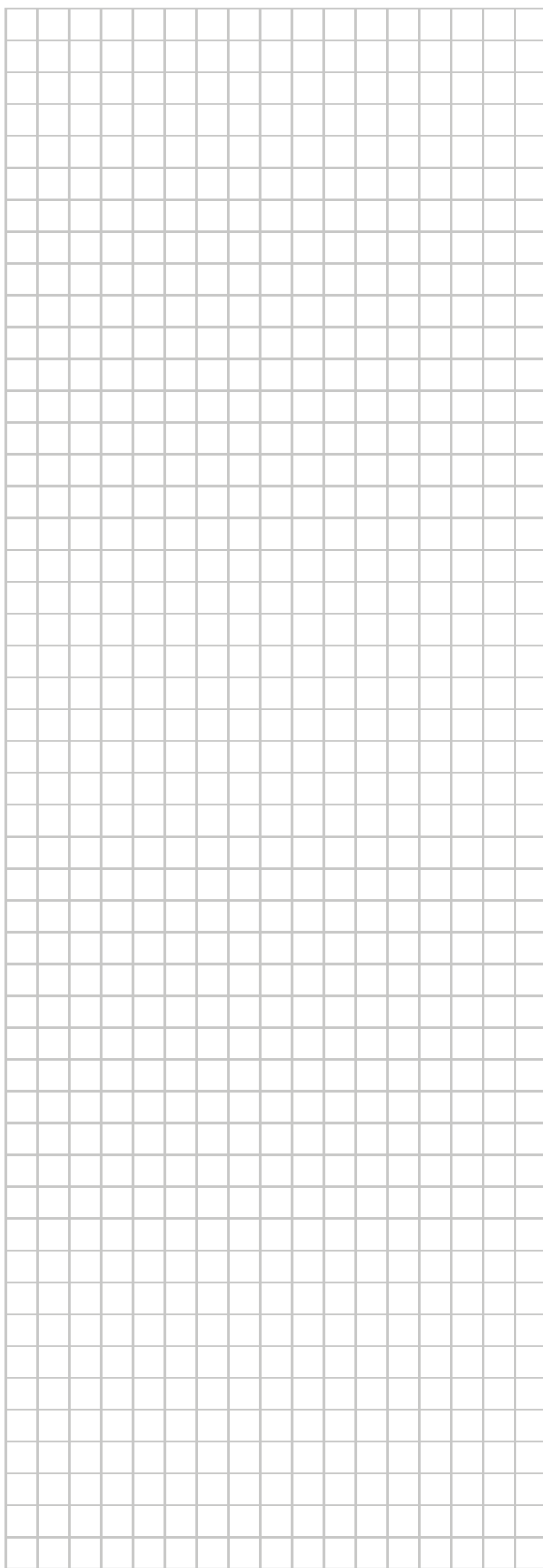
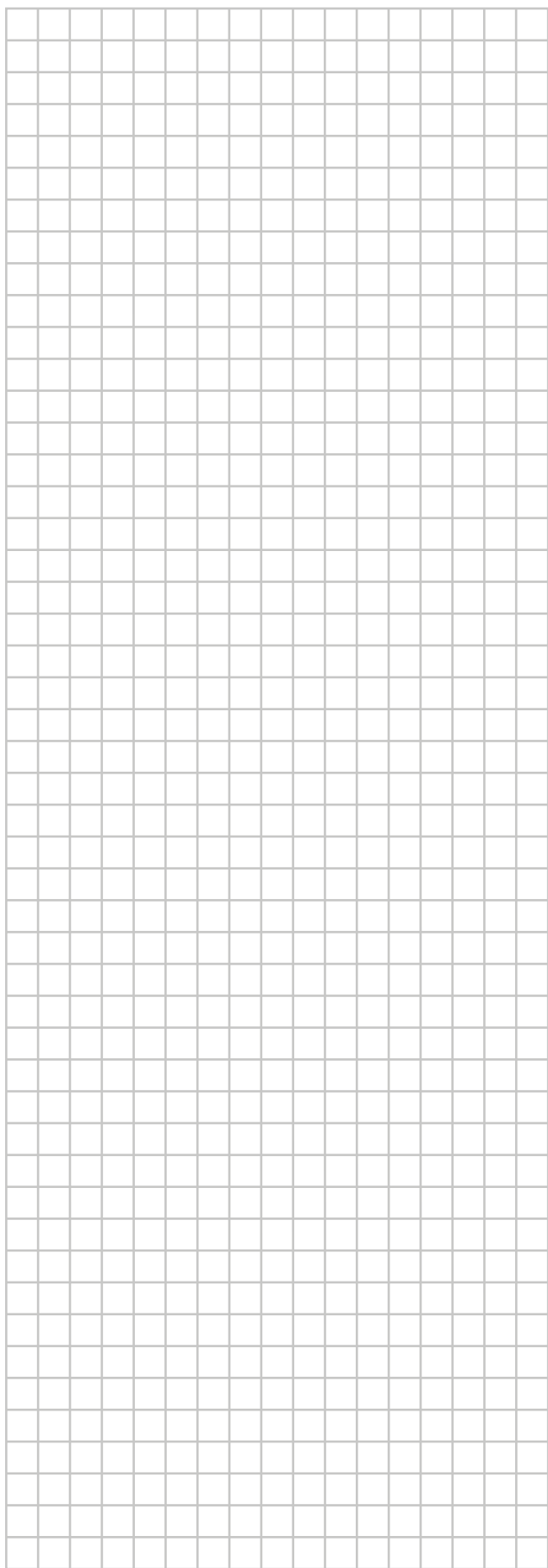
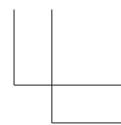
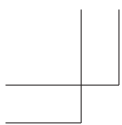
9 Technical data

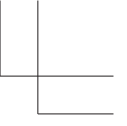
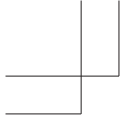
A **subset** of the latest technical data is available on the regional Daikin website (publicly accessible). The **full set** of latest technical data is available on the Daikin Business Portal (authentication required).

9.1 Wiring diagram

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 symbol “*” in the part code.					
	:	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
BLK : BLACK	GRN : GREEN	PNK : PINK	WHT : WHITE		
BLU : BLUE	GRY : GREY	PRP, PPL : PURPLE	YLW : YELLOW		
BRN : BROWN	ORG : ORANGE	RED : RED			
A*P	:	PRINTED CIRCUIT BOARD	PS	:	SWITCHING POWER SUPPLY
BS*	:	PUSHBUTTON ON/OFF, OPERATION SWITCH	PTC*	:	THERMISTOR PTC
BZ, H*O	:	BUZZER	Q*	:	INSULATED GATE BIPOLAR TRANSISTOR (IGBT)
C*	:	CAPACITOR	Q*DI	:	EARTH LEAK CIRCUIT BREAKER
AC*, CN*, E*, HA*, HE*, HL*, HN*,	:	CONNECTION, CONNECTOR	Q*L	:	OVERLOAD PROTECTOR
HR*, MR*_A, MR*_B, S*, U, V,			Q*M	:	THERMO SWITCH
W, X*A, K*R_*			R*	:	RESISTOR
D*, V*D	:	DIODE	R*T	:	THERMISTOR
DB*	:	DIODE BRIDGE	RC	:	RECEIVER
DS*	:	DIP SWITCH	S*C	:	LIMIT SWITCH
E*H	:	HEATER	S*L	:	FLOAT SWITCH
F*U, FU* (FOR CHARACTERISTICS,	:	FUSE	S*NPH	:	PRESSURE SENSOR (HIGH)
REFER TO PCB INSIDE YOUR UNIT)			S*NPL	:	PRESSURE SENSOR (LOW)
FG*	:	CONNECTOR (FRAME GROUND)	S*PH, HPS*	:	PRESSURE SWITCH (HIGH)
H*	:	HARNESS	S*PL	:	PRESSURE SWITCH (LOW)
H*P, LED*, V*L	:	PILOT LAMP, LIGHT EMITTING DIODE	S*T	:	THERMOSTAT
HAP	:	LIGHT EMITTING DIODE (SERVICE MONITOR GREEN)	S*RH	:	HUMIDITY SENSOR
HIGH VOLTAGE	:	HIGH VOLTAGE	S*W, SW*	:	OPERATION SWITCH
IES	:	INTELLIGENT EYE SENSOR	SA*, F1S	:	SURGE ARRESTOR
IPM*	:	INTELLIGENT POWER MODULE	SR*, WLU	:	SIGNAL RECEIVER
K*R, KCR, KFR, KHuR, K*M	:	MAGNETIC RELAY	SS*	:	SELECTOR SWITCH
L	:	LIVE	SHEET METAL	:	TERMINAL STRIP FIXED PLATE
L*	:	COIL	T*R	:	TRANSFORMER
L*R	:	REACTOR	TC, TRC	:	TRANSMITTER
M*	:	STEPPER MOTOR	V*, R*V	:	VARISTOR
M*C	:	COMPRESSOR MOTOR	V*R	:	DIODE BRIDGE
M*F	:	FAN MOTOR	WRC	:	WIRELESS REMOTE CONTROLLER
M*P	:	DRAIN PUMP MOTOR	X*	:	TERMINAL
M*S	:	SWING MOTOR	X*M	:	TERMINAL STRIP (BLOCK)
MR*, MRCW*, MRM*, MRN*	:	MAGNETIC RELAY	Y*E	:	ELECTRONIC EXPANSION VALVE COIL
N	:	NEUTRAL	Y*R, Y*S	:	REVERSING SOLENOID VALVE COIL
n=*, N=*	:	NUMBER OF PASSES THROUGH FERRITE CORE	Z*C	:	FERRITE CORE
PAM	:	PULSE-AMPLITUDE MODULATION	ZF, Z*F	:	NOISE FILTER
PCB*	:	PRINTED CIRCUIT BOARD			
PM*	:	POWER MODULE			







EAC



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