



# Operation manual

## Daikin room air conditioner



ATXM20N2V1B  
ATXM25N2V1B  
ATXM35N2V1B  
ATXM50N2V1B

Operation manual  
Daikin room air conditioner

English

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## 1 About the documentation

### 1.1 About this document

Thank you for purchasing this product. Please:

- Keep the documentation for future reference.

#### Target audience

End users



#### INFORMATION

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

#### 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 operating your system
  - Format: Paper (in the box of the indoor unit)
- **Operation manual:**
  - Quick guide for basic usage
  - Format: Paper (in the box of the indoor unit)
- **User reference guide:**
  - Detailed step-by-step instructions and background information for basic and advanced usage
  - Format: Digital files on <http://www.daikineurope.com/support-and-manuals/product-information/>

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

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

## 2 About the system



#### WARNING: FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.

### 2.1 Indoor unit



#### CAUTION

Do NOT insert fingers, rods or other objects into the air inlet or outlet. When the fan is rotating at high speed, it will cause injury.



#### INFORMATION

The sound pressure level is less than 70 dBA.



## WARNING

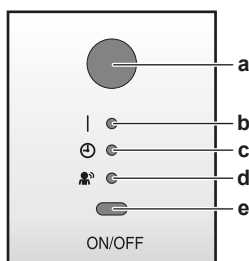
- Do not modify, disassemble, remove, reinstall or repair the unit yourself as incorrect dismantling or installation may cause an electric shock or fire. Contact your dealer.
- In case of accidental refrigerant leaks, make sure there are no naked flames. The refrigerant itself is entirely safe, non-toxic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



## INFORMATION

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

### 2.1.1 Indoor unit display



- a Signal receiver for user interface
- b Operation lamp
- c Timer lamp
- d Intelligent eye lamp
- e ON/OFF button

#### ON/OFF button

If the user interface is missing, you can use the ON/OFF button on the indoor unit to start/stop operation. When operation is started using this button, the following settings are used:

- Operation mode = Automatic
- Temperature setting = 25°C
- Airflow rate = Automatic

## 2.2 About the user interface

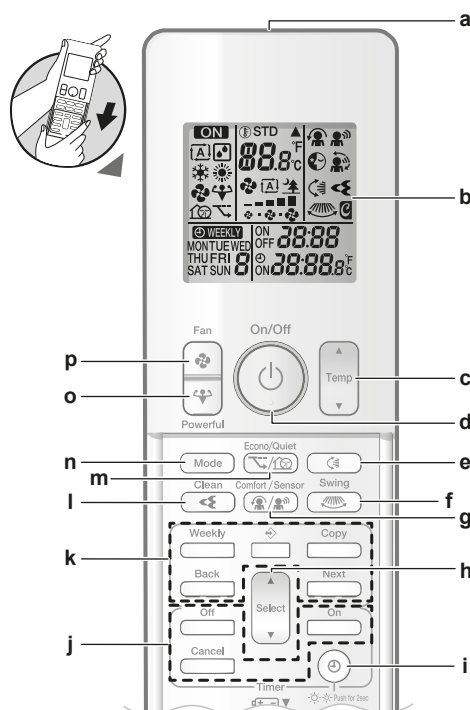
- Direct sunlight.** Do NOT expose the user interface to direct sunlight.
- Dust.** Dust on the signal transmitter or receiver will reduce sensitivity. Wipe off dust with a soft cloth.
- Fluorescent lights.** Signal communication might be disabled if fluorescent lamps are in the room. In that case, contact your installer.
- Other appliances.** If the user interface signals operate other appliances, move the other appliances, or contact your installer.
- Curtains.** Make sure that the signal between the unit and the user interface is NOT blocked by curtains or other objects.



## NOTICE

- Do NOT drop the user interface.
- Do NOT let the user interface get wet.

### 2.2.1 Components: User interface



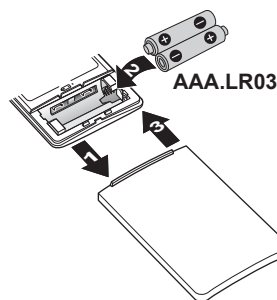
- a Signal transmitter
- b LCD display
- c Temperature adjustment button
- d ON/OFF button
- e Vertical swing button
- f Horizontal swing button
- g Comfort airflow and Intelligent eye operation button
- h Select button
- i Clock button and indoor unit display brightness
- j Buttons for ON/OFF timer operation
- k Buttons for Weekly timer operation
- l Streamer
- m Econo and Outdoor unit quiet operation button
- n Mode button
- o Powerful button
- p Fan button

## 3 Before operation

### 3.1 To insert the batteries

The batteries will last for about 1 year.

- Remove the front cover.
- Insert both batteries at once.
- Put back the front cover.

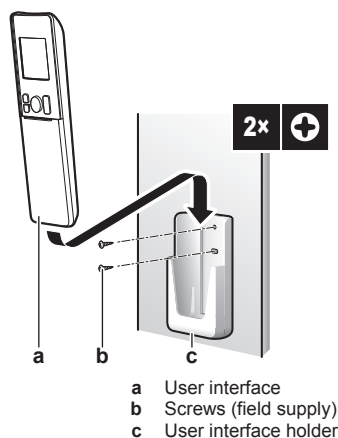


## INFORMATION

- Low energy of battery is indicated by flashing of LCD display.
- ALWAYS replace both batteries at once.

## 4 Operation

### 3.2 To fix the user interface to the wall



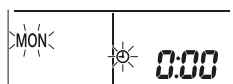
- 1 Choose a place where the signals reach the unit.
- 2 Attach the holder with screws to the wall or a similar location.
- 3 Hang the user interface on the user interface holder.

### 3.3 To set the clock

**Note:** If the time is NOT set, MON, ⊕, and 0:00 blink.

- 1 Press ⊕.

**Result:** MON and ⊕ blink

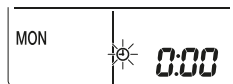


- 2 Press or to set the current day of the week.

**Note:** Holding down or increases or decreases the time setting rapidly.

- 3 Press ⊕.

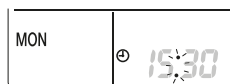
**Result:** ⊕ blinks.



- 4 Press or to set the correct time.

- 5 Press ⊕.

**Result:** Setting is complete. . blinks.



### 3.4 Brightness of the indoor unit display

Adjust the brightness of the indoor unit display as desired, or turn OFF the display.

#### 3.4.1 To set the brightness of the indoor unit display

- 1 Keep pressed ⊕ for at least 2 seconds every time you need to change the setting.

**Result:** Brightness will be changed in order: high, low, off.

### 3.5 To turn on the power supply

- 1 Turn the circuit breaker on.

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

## 4 Operation

### 4.1 Operation range

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

In combination with outdoor units: 2AMXM and 3AMXM		
	Cooling and drying <sup>(a)</sup>	Heating <sup>(a)</sup>
Outdoor temperature	−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% <sup>(b)</sup>	—

In combination with other outdoor units		
	Cooling and drying <sup>(a)</sup>	Heating <sup>(a)</sup>
Outdoor temperature	−10~50°C DB	−20~24°C DB −21~18°C WB
Indoor temperature	18~37°C DB 14~28°C WB	10~30°C DB
Indoor humidity	≤80% <sup>(b)</sup>	—

If operated outside the operation range:

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

### 4.2 Operation mode and temperature setpoint

**When.** Adjust the system operation mode and set the temperature when you want to:

- Heat up or cool down a room
- Blow air in a room without heating or cooling
- Decrease the humidity in a room

**What.** The system operates differently, depending on the user selection.



#### INFORMATION

Operation modes: **cooling**, **drying** and **automatic** are NOT available for the **heating only** version of the product.

Setting	Description
Automatic	The system cools down or heats up a room to the temperature setpoint. It automatically switches between cooling and heating if necessary.
Drying	The system decreases the humidity in a room without changing the temperature.
Heating	The system heats up a room to the temperature setpoint.
Cooling	The system cools down a room to the temperature setpoint.

Setting	Description
Fan	The system only controls the airflow (airflow rate and airflow direction). The system does NOT control the temperature.

**Additional info:**

- **Outside temperature.** The system's cooling or heating effect decreases when the outside temperature is too high or too low.
- **Defrost operation.** During heating operation, frost might occur on the outdoor unit and decrease the heating capacity. In that case, the system automatically switches to defrosting operation to remove the frost. During defrosting operation, hot air is NOT blown from the indoor unit.
- **Humidity sensor.** Control the humidity by decreasing the humidity during cooling process.

**4.2.1 To start/stop operation and to set the temperature**

**ON**: Unit is operating.

: Operation mode = Automatic

: Operation mode = Drying

: Operation mode = Cooling

: Operation mode = Heating

: Operation mode = Fan only

**88.8**°C: Shows the set temperature.

- 1 Press one or more times to select the operation mode.

**Result:** The mode will be set as follows:



- 2 Press to start operation.

**Result:** **ON** and the selected mode are displayed on the LCD.

- 3 Press or one or more times to lower or raise the temperature.

Cooling operation	Heating operation	Automatic operation	Drying or Fan only operation
18~32°C	10~30°C	18~30°C	—

**Note:** When using **drying** or **fan only** mode, you cannot adjust the temperature.

- 4 Press to stop operation.

**Result:** **ON** disappears from the LCD. The operation lamp goes off.

**4.3 Airflow rate**

- 1 Press to choose:

	5 airflow rate levels, from "==" to "■"
	Automatic operation
	Indoor unit quiet operation. When the airflow is set to "■", the noise from the unit will be reduced.

**INFORMATION**

- If the unit reach the temperature setpoint in cooling, heating or automatic mode. Fan will stop operating.
- When using drying operation mode, you CANNOT adjust the airflow rate setting.

**4.3.1 To adjust the airflow rate**

- 1 Press to change the airflow setting as follows:

**4.4 Airflow direction**

**When.** Adjust the airflow direction as desired.

**What.** The system directs the airflow differently, depending on the user selection (swinging or fixed position). It does so by moving horizontal blades (flaps) or vertical blades (louvers).

Setting	Airflow direction
Vertical automatic swing	Moves up and down.
Horizontal automatic swing	Moves from side to side.
3-D airflow direction	Moves simultaneously up and down and from side to side
[—]	Stays in a fixed position.

**CAUTION**

- ALWAYS use a user interface to adjust the position of the flaps and louvers. When the flaps and louvers are swinging and you move them forcibly by hand, the mechanism will break.

The movable range of the flap varies according to the operation mode. The flap will stop at the upper position when the airflow rate is changed to low during the up and down swing setting.

**4.4.1 To adjust vertical airflow direction**

- 1 Press .

**Result:** appears on the LCD. The flaps (horizontal blades) will begin to swing.

- 2 To use fixed position, press when the flaps reach the desired position.

**Result:** disappears from the LCD. The flaps will stop moving.

**4.4.2 To adjust horizontal airflow direction**

- 1 Press .

**Result:** appears on the LCD. The louvers (vertical blades) will begin to swing.

- 2 To use fixed position, press when the louvers reach the desired position.

**Result:** disappears from the LCD. The louvers will stop moving.



**INFORMATION**

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



## 4 Operation

### 4.4.3 To use 3-D airflow direction

- 1 Press  and .

**Result:**  and  appear on the LCD. The flaps (horizontal blades) and louvers (vertical blades) will begin to swing.

- 2 To use fixed position, press  and  when the flaps and louvers reach the desired position.

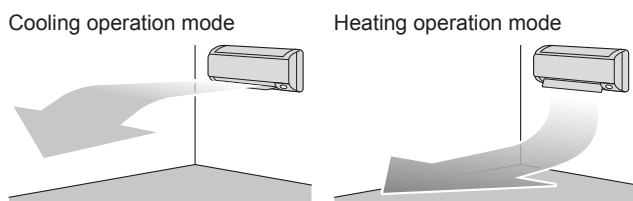
**Result:**  and  disappear from the LCD. The flaps and the louvers will stop moving.

## 4.5 Comfort airflow and Intelligent eye operation

You can use Comfort and Intelligent eye operation separately, or combine them.

### 4.5.1 Comfort airflow operation

This operation can be used in **heating** or **cooling** operation mode. It will provide a comfortable wind that will NOT come in direct contact with people. The system automatically sets the fixed airflow position upward in Cooling and downward in Heating operation mode.



#### INFORMATION

Powerful and Comfort airflow operation CANNOT be used at the same time. The last selected function takes priority. If the vertical automatic swing is selected, Comfort airflow operation will be cancelled.

### 4.5.2 Intelligent eye operation

The system detects movement in the room and automatically adjusts the airflow direction and temperature in order to avoid direct contact with people. If no movement is detected for 20 minutes, the system switches to energy saving operation:



#### NOTICE

- Do NOT hit or push the Intelligent eye sensor. Doing so may lead to malfunction.
- Do NOT place large objects near the Intelligent eye sensor.



#### INFORMATION

Powerful or Night set operation CANNOT be used at the same time with Intelligent eye operation. The last selected function takes priority.




- **Detection sensitivity.** Changes according to location, the number of persons in the room, temperature range, etc.
- **Detection mistakes.** The sensor may mistakenly detect pets, sunlight, moving curtains, etc.

### 4.5.3 To start/stop Comfort and Intelligent eye operation

- 1 Press  one or more times.

**Result:** The setting will change as follows:



Display	Operation
	Comfort airflow
	Intelligent eye
	Comfort airflow and Intelligent eye
—	Both deactivated

**Note:** If there are people close to the front of the indoor unit or there are too many people, use both operations at the same time.

- 2 To stop operation, press  until both symbols disappear from the LCD.

## 4.6 Powerful operation

This operation quickly maximizes the cooling/heating effect in any operation mode. You can get the maximum capacity.




#### INFORMATION

Powerful operation CANNOT be used together with Econo, Comfort airflow, Intelligent eye and Outdoor unit quiet operation. The last selected function takes priority.

Powerful operation will NOT increase the capacity of the unit if it already operates at maximum capacity.



### 4.6.1 To start/stop Powerful operation

- 1 Press  to start.

**Result:**  is displayed on the LCD. Powerful operation runs for 20 minutes; after that, operation returns to the previously set mode.

- 2 Press  to stop.

**Result:**  disappears from the LCD.

**Note:** Powerful operation can be set only when the unit is running. If you press , operation will be cancelled;  disappears from the LCD.

## 4.7 Econo and Outdoor unit quiet operation

### 4.7.1 Econo operation

This is a function which enables efficient operation by limiting the maximum power consumption value. This function is useful for cases in which attention should be paid to ensure a circuit breaker will not trip when the product runs alongside other appliances.



#### INFORMATION

- Powerful and Econo operation CANNOT be used at the same time. The last selected function takes priority.
- Econo operation reduces power consumption of the outdoor unit by limiting the rotation speed of the compressor. If power consumption is already low, Econo operation will NOT further reduce power consumption.

### 4.7.2 Outdoor unit quiet operation

Use Outdoor unit quiet operation when you want to decrease the noise level of the outdoor unit. **Example:** At night.



### **i** INFORMATION




- Powerful and Outdoor unit quiet operation CANNOT be used at the same time. The last selected function takes priority.
- This function is only available in Automatic, Cooling, and Heating operation.
- Outdoor unit quiet operation limits the rotation speed of the compressor. If the rotation speed of compressor is already low, Outdoor unit quit operation will NOT further reduce the compressor rotation speed.

#### 4.7.3 To start/stop Econo and Outdoor unit quiet operation



- Press  one or more times.


**Result:** The setting will change as follows.



Display	Operation
	Econo
	Outdoor unit quiet
	Econo and Outdoor unit quiet
—	Both deactivated

- To stop operation, press  until both symbols disappear from the LCD.

**Note:** Econo operation can be only set when the unit is running. Pressing  cancels the setting and  disappears from the LCD.

**Note:**  remains on the LCD, even if you turn off the unit using the user interface or indoor unit ON/OFF switch.


#### 4.8 Flash streamer air cleaning operation


Streamer generates a high-speed electron stream with a high oxidizing power, reducing bad odours and viruses. Together with the titanium apatite deodorizing filter and the air filters, this function cleans the air in the room.

### **i** INFORMATION


- The high-speed electrons are generated and go away inside the unit to ensure safe operation.
- The Streamer discharge may generate a fizzing sound.
- If the airflow becomes weak, the Streamer discharge may stop temporarily to prevent ozone smell.

#### 4.8.1 To start/stop Flash Streamer operation

- Press .

**Result:**  is displayed on the LCD and the air in the room is cleaned.

- To stop operation, press .

**Result:**  disappears from the LCD and operation stops.

#### 4.9 OFF/ON timer operation

Timer functions are useful for automatically switching the air conditioner on/off at night or in the morning. You can also use OFF timer and ON timer in combination.

### **i** INFORMATION


Program the timer again in case of:



- A breaker has turned the unit off.
- A power failure.
- After replacing batteries in the user interface.

### **i** INFORMATION

The clock MUST be set correctly before using any timer functions. Refer to "3.3 To set the clock" on page 4.

#### 4.9.1 To start/stop OFF timer operation

- Press  to start.

**Result:**  is displayed on the LCD, the timer lamp lights up, and OFF blinks.  and the day of the week disappear from the LCD.





- Press  or  to change the time setting.
- Press  again.



**Result:** OFF and the set time are displayed on the LCD.

**Result:** The timer lamp lights up.

### **i** INFORMATION

Each time  or  is pressed, the time setting advances by 10 minutes. Holding the button down will change the setting rapidly.

- To stop operation, press .

**Result:**  and OFF disappear from the LCD and the timer lamp goes off.  and the day of the week are displayed on the LCD.


### **i** INFORMATION



When you set the ON/OFF timer, the time setting is stored in the memory. The memory will be reset when the user interface batteries are replaced.

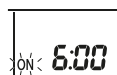
#### Use of night set mode in combination with OFF timer




The air conditioner automatically adjusts the temperature setting (0.5°C up in cooling, 2.0°C down in heating) to prevent excessive cooling/heating and ensure a comfortable sleeping temperature.

#### 4.9.2 To start/stop ON timer operation

- Press  to start.



**Result:**  is displayed on the LCD, the timer lamp lights up, and ON blinks.  and the day of the week disappear from the LCD.



- Press  or  to change the time setting.
- Press  again.

**Result:** ON and the set time are displayed on the LCD. The timer lamp lights up.

### **i** INFORMATION

Each time  or  is pressed, the time setting advances by 10 minutes. Holding the button down will change the setting rapidly.

## 4 Operation

- 4 To stop operation, press **Cancel**.

**Result:** **6:00** and **ON** disappear from the LCD and the timer lamp goes off. **⊕** and the day of the week are displayed on the LCD.

### 4.9.3 To combine OFF timer and ON timer

- 1 To set the timers, refer to "4.9.1 To start/stop OFF timer operation" on page 7 and "4.9.2 To start/stop ON timer operation" on page 7.

**Result:** **OFF** and **ON** are displayed on the LCD.

**Example:**

Display	Current time	Set while...	Operation
OFF 7:00 ON 14:00	6:00	the unit is operating.	Stops at 7:00 and starts at 14:00.
		the unit is NOT operating.	Starts at 14:00.

**Note:** If the timer setting is active, the current time is NOT displayed on the LCD.

## 4.10 Weekly timer operation

With this operation, you can save up to 4 timer settings for each day of the week.

**Example:** Create a different setting from Monday to Friday and a different setting for weekends.

Day of the week	Setting example
<b>Monday</b> ▪ Make up to 4 settings.	
<b>Tuesday~Friday</b> ▪ Use the copy mode if the settings are the same as for Monday.	
<b>Saturday</b> ▪ No timer setting	—
<b>Sunday</b> ▪ Make up to 4 settings.	

- **ON-ON-ON-ON setting.** Enables scheduling the operation mode and set temperature.
- **OFF-OFF-OFF-OFF setting.** Only the turn off time can be set for each day.

**Note:** Be sure to aim the user interface at the indoor unit and check for a receiving tone when setting the Weekly timer operation.



#### INFORMATION

The clock **MUST** be set correctly before using any timer functions. Refer to "3.3 To set the clock" on page 4.



#### INFORMATION

- Weekly timer and ON/OFF timer operation CANNOT be used at the same time. The ON/OFF timer operation takes priority. Weekly timer will be in standby, **⊕ WEEKLY** disappears from the LCD. When the ON/OFF timer is completed, the Weekly timer becomes active.
- The day of the week, ON/OFF timer mode, time and temperature (only for ON timer) can be set with the Weekly timer. Other settings are based on previous ON timer setting.

### 4.10.1 To set Weekly timer operation

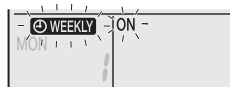
- 1 Press **⊕**.

**Result:** The day of the week and the reservation number of the current day are displayed.



- 2 Press **Select** or **Select** to select the day of the week and the reservation number.
- 3 Press **Next**.

**Result:** The day of the week is set. **⊕ WEEKLY** and **ON** blink.



- 4 Press **Select** or **Select** to select the mode.

**Result:** The setting will change as follows:



Display	Feature
ON	ON timer
OFF	OFF timer
Blank	Deletes reservation

- 5 Press **Next**.

**Result:** The ON/OFF timer mode is set. **⊕ WEEKLY** and the time blink.



**Note:** Press **Back** to return to the previous screen. If blank is selected, continue to step 9.

- 6 Press **Select** or **Select** to select the time. The time can be set between 0:00~23:50 in 10-minute intervals.
- 7 Press **Next**.

**Result:** The time is set and **⊕ WEEKLY** and the temperature blink.



**Note:** Press **Back** to return to the previous screen. If OFF timer is selected, continue to step 9.

- 8 Press **Select** or **Select** to select the desired temperature.

**Note:** The set temperature for the weekly timer is displayed only when setting the weekly timer mode.



#### INFORMATION


The temperature can be set between 10~32°C on the user interface. In cooling and automatic operation mode, the unit will operate at minimum 18°C even if is set at 10~17°C. In heating operation mode, the unit will operate at maximum 30°C even if is set at 31~32°C.

- 9 Press **Next**.

**Result:** The temperature and time are set for the ON timer. The time is set for the OFF timer. The timer lamp lights orange.

**Result:** A new reservation screen will appear.







- 10 Repeat the previous procedure to set another reservation or press  to complete the setting.

**Result:**  WEEKLY is displayed on the LCD.

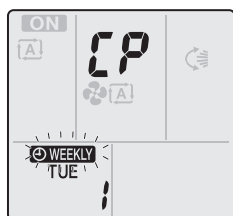
**Note:** A reservation can be copied with the same settings to another day. Refer to "4.10.2 To copy reservations" on page 9.




#### 4.10.2 To copy reservations

A reservation can be copied to another day. The complete reservation of the selected day of the week will be copied.

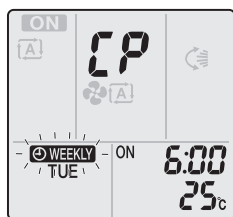
- 1 Press .
- 2 Press  or  to select the day of the week to be copied.
- 3 Press .

**Result:** The reservation of the selected day of the week will be copied.



- 4 Press  or  to select the destination day.
- 5 Press .

**Result:** The whole reservation is copied to the selected day and the timer lamp lights orange.



**Note:** To copy to another day, repeat the procedure.

- 6 Press  to complete the setting.

**Result:**  WEEKLY is displayed on the LCD.

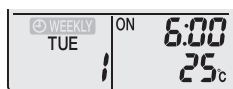
**Note:** To change the reservation setting after copying, refer to "4.10.1 To set Weekly timer operation" on page 8.



#### 4.10.3 To confirm reservations

You can confirm if all reservations are set to your needs.


- 1 Press .

**Result:** The day of the week and the reservation number of the current day are displayed.






- 2 Press  or  to select the day of the week and reservation number to be confirmed and check the reservation details.

**Note:** To change the reservation setting, refer to "4.10.1 To set Weekly timer operation" on page 8.

- 3 Press  to exit the confirmation mode.

#### 4.10.4 To deactivate and reactivate Weekly timer operation

- 1 To deactivate the Weekly timer, press  while  WEEKLY is displayed on the LCD.

**Result:**  WEEKLY disappears from the LCD and the timer lamp goes off.

- 2 To reactivate the Weekly timer, press  Weekly again.

**Result:** The last set reservation mode will be used.




#### 4.10.5 To delete reservations

##### To delete individual reservations

Use this function if you want to delete a single reservation setting.

- 1 Press .

**Result:** The day of the week and the reservation number are displayed.

- 2 Press  or  to select the day of the week to be deleted.
- 3 Press .

**Result:**  WEEKLY, ON, and OFF blink.

- 4 Press  or  and select "blank".

**Result:** The setting will change as follows:



- 5 Press .




**Result:** The selected reservation is deleted.

- 6 Press  to exit.

**Result:** Remaining reservations will be active.

##### To delete a reservation for each day of the week

Use this function if you want to delete all reservation settings for one day of the week. This can be used in confirmation or setting mode.

- 1 Press  or  to select the day of the week to be deleted.
- 2 Hold  Weekly for about 5 seconds.

**Result:** All reservations for the selected day will be deleted.

##### To delete all reservations

Use this function if you want to delete all reservations for all days of the week in one go. This procedure CANNOT be used in the setting mode.

- 1 Hold  Weekly for about 5 seconds while in the default display.

**Result:** All reservations will be deleted.

#### 4.11 Wireless LAN connection

The customer is responsible for providing:

- Smartphone, tablet or another smart device with one of the following operating systems:
  - Android 4.0.3 or later
  - iOS 7.1.2 or later
- Internet line and communication device, such as a modem, router, etc.
- Wireless LAN access point
- Installed free **Daikin Online Controller** application

##### 4.11.1 Precautions when using the wireless adapter

Do NOT use near:

## 5 Energy saving and optimum operation

- **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.

### 4.11.2 To install the Daikin Online Controller application

- 1 Open:
  - Google Play for appliances using Android.
  - App Store for appliances using iOS.
- 2 Search for **Daikin Online Controller**.
- 3 Follow the directions on the screen to install.

## 5 Energy saving and optimum operation



### INFORMATION

- Even if the unit is turned OFF, it consumes electricity.
- When the power turns back on after a power break, the previously selected mode will be resumed.



### CAUTION

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



### WARNING

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.



### NOTICE

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



### CAUTION

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



### WARNING

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

Observe the following precautions to ensure the system operates properly.

- Prevent direct sunlight from entering a room during cooling operation by using curtains or blinds.
- Ventilate often. Extended use requires special attention to ventilation.
- Keep doors and windows closed. If the doors and windows remain open, air will flow out of your room causing a decrease in the cooling or heating effect.
- Be careful NOT to cool or heat too much. To save energy, keep the temperature setting at a moderate level.

- NEVER place objects near the air inlet or the air outlet of the unit. Doing so may cause a reduced heating/cooling effect or stop operation.
- Turn off the main power supply switch to the unit when the unit is NOT used for longer periods of time. If the main power supply switch is on, the unit consumes electricity. Before restarting the unit, turn on the main power supply switch 6 hours before operation to ensure smooth running.
- Condensation may form if the humidity is above 80% or if the drain outlet gets blocked.
- Adjust the room temperature properly for a comfortable environment. Avoid excessive heating or cooling. Notice that it may take some time for the room temperature to reach the set temperature. Consider using the timer setting options.
- Adjust the air flow direction to avoid cool air from gathering on the floor or warm air against the ceiling. (Up during cooling or dry operation to the ceiling and down during heating operation.)
- Avoid direct air flow to room inhabitants.
- Operate the system within the recommended temperature range (26~28°C for cooling and 20~24°C for heating) to save energy.

## 6 Maintenance and service

### 6.1 Overview: Maintenance and service

The installer has to perform a yearly maintenance.

#### About the refrigerant

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

Refrigerant type: R32

Global warming potential (GWP) value: 675



### NOTICE

In Europe, the **greenhouse gas emissions** of the total refrigerant charge in the system (expressed as tonnes CO<sub>2</sub> equivalent) is used to determine the maintenance intervals. Follow the applicable legislation.

**Formula to calculate the greenhouse gas emissions:**  
GWP value of the refrigerant × Total refrigerant charge [in kg] / 1000

Please contact your installer for more information.



### WARNING

The refrigerant inside the unit is mildly flammable, but normally does NOT leak. If the refrigerant leaks in the room and comes in contact with fire from a burner, a heater, or a cooker, this may result in fire, or the formation of a harmful gas.

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

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


**WARNING**

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


**NOTICE**

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

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


**DANGER: RISK OF ELECTROCUTION**

To clean the air conditioner or air filter, be sure to stop operation and turn all power supplies off. Otherwise, an electric shock and injury may result.


**WARNING**

To prevent electric shocks or fire:

- Do NOT rinse the unit.
- Do NOT operate the unit with wet hands.
- Do NOT place any objects containing water on the unit.


**CAUTION**

After a long use, check the unit stand and fitting for damage. If damaged, the unit may fall and result in injury.


**CAUTION**

Do NOT touch the heat exchanger fins. These fins are sharp and could result in cutting injuries.


**WARNING**

Be careful with ladders when working in high places.

## 6.2 To clean the indoor unit and user interface


**NOTICE**

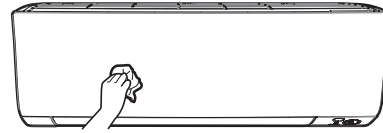
- Do NOT use gasoline, benzene, thinner polishing powder or liquid insecticide. **Possible consequence:** Discoloration and deformation.
- Do NOT use water or air of 40°C or higher. **Possible consequence:** Discoloration and deformation.
- Do NOT use polishing compounds.
- Do NOT use a scrubbing brush. **Possible consequence:** The surface finishing peels off.


**DANGER: RISK OF ELECTROCUTION**

Before cleaning, be sure to stop the operation, turn the breaker off or pull out the supply cord. Otherwise, an electric shock and injury may result.

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

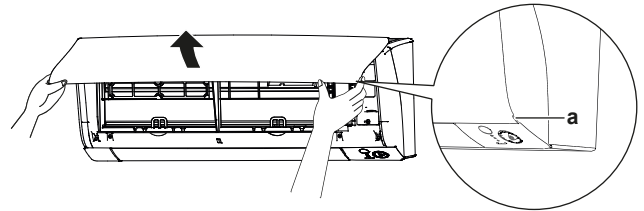
## 6.3 To clean the front panel



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

## 6.4 To remove the front panel

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

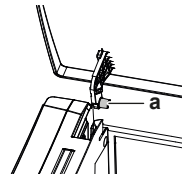


a Panel tabs

- 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

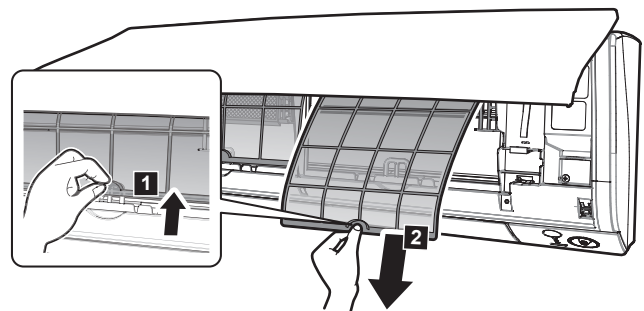
## 6.5 About the air filters

Operating the unit with dirty filters means that the filter:

- CANNOT deodorize the air,
- CANNOT clean the air,
- poor heating/cooling,
- causes odour.

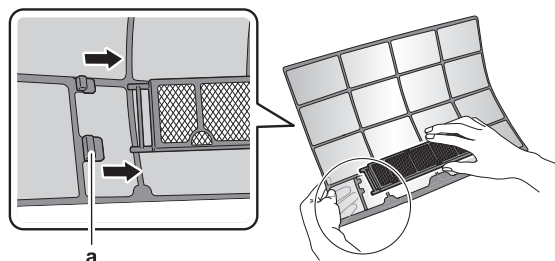
## 6.6 To clean the air filters

- Push the tab at the centre of each air filter, then pull it down.
- Pull out the air filters.



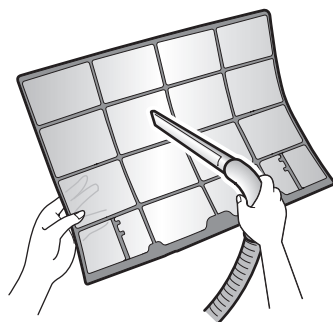
**Note: (class 50)** The titanium apatite deodorizing filter MUST be removed before cleaning the air filter.

- Remove the titanium apatite deodorizing filter from all 4 claws.

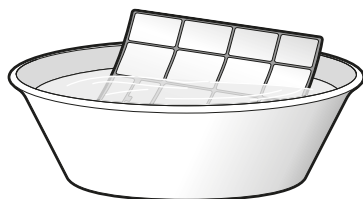


a Claw

- 4 Wash the air filters with water or clean them with a vacuum cleaner.



- 5 Soak in lukewarm water for about 10 to 15 minutes.



### **i** INFORMATION

- If the dust does NOT come off easily, wash them with a neutral detergent diluted in lukewarm water. Dry the air filters in the shade.
- It is recommended to clean the air filters every 2 weeks.

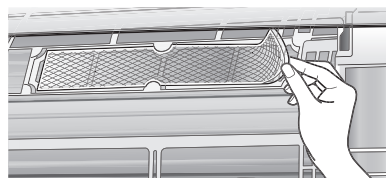
## 6.7 To clean the titanium apatite deodorizing filter

### **i** INFORMATION

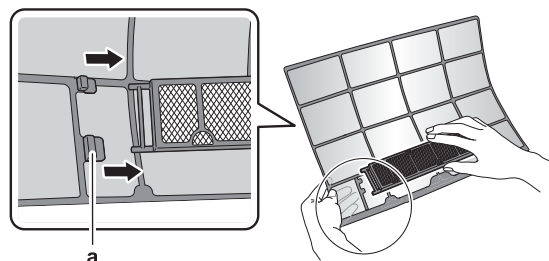
Clean the filter with water every 6 months.

- 1 Remove the titanium apatite deodorizing filter from the tabs (class 20~35) or all 4 claws (class 50).

#### Class 20~35

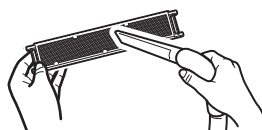


#### Class 50



a Claw

- 2 Remove the dust from the filter with a vacuum cleaner.



- 3 Soak the filter for 10 to 15 minutes in warm water.

**Note:** (class 50) Do NOT remove the filter from the frame.

#### Class 20~35



#### Class 50



- 4 After washing, shake off remaining water and dry the filter in the shade. Do NOT wring out the filter when removing water.

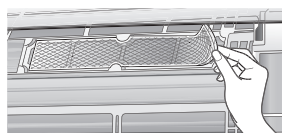
## 6.8 To replace the titanium apatite deodorizing filter

### **i** INFORMATION

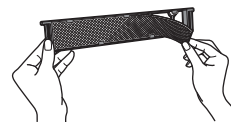
Replace the filter every 3 years.

- 1 Remove the filter from the tabs (class 20~35) or frame (class 50) and replace the filter with a new one.

#### Class 20~35



#### Class 50



### **i** INFORMATION

- Do NOT throw away the filter frame, but use it again.
- Dispose of the old filter as non-flammable waste.

To order titanium apatite deodorizing filters, contact your dealer.




Item	Part number
Titanium deodorizing filter 1 set	KAF970A46

## 6.9 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.

## 6.10 To take following items into account before a long idle period

Operate the unit several hours in **fan only** mode to dry the inside of the unit.

- 1 Press  and select  operation.
- 2 Press  and start operation.
- 3 After operation stops, turn the breaker off.
- 4 Clean the air filters and replace them in their original position.
- 5 Remove the batteries from the user interface.



### INFORMATION

It is recommended to have periodical maintenance performed by a specialist. For specialist maintenance, contact your dealer. Maintenance costs shall be borne by the customer.

In certain operating conditions the inside of the unit may get dirty after several seasons of use. This results in poor performance.

## 8 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.

## 7 Troubleshooting

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



### WARNING

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

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

The system **MUST** be repaired by a qualified service person.

Malfunction	Measure
If a safety device such as a fuse, a breaker or an earth leakage breaker frequently actuates or the ON/OFF switch does NOT properly work.	Turn OFF the main power switch.
If water leaks from the unit.	Stop the operation.
The operation switch does NOT work well.	Turn OFF the power supply.
If the user interface display indicates the unit number, the operation lamp flashes and the malfunction code appears.	Notify your installer and report the malfunction code.

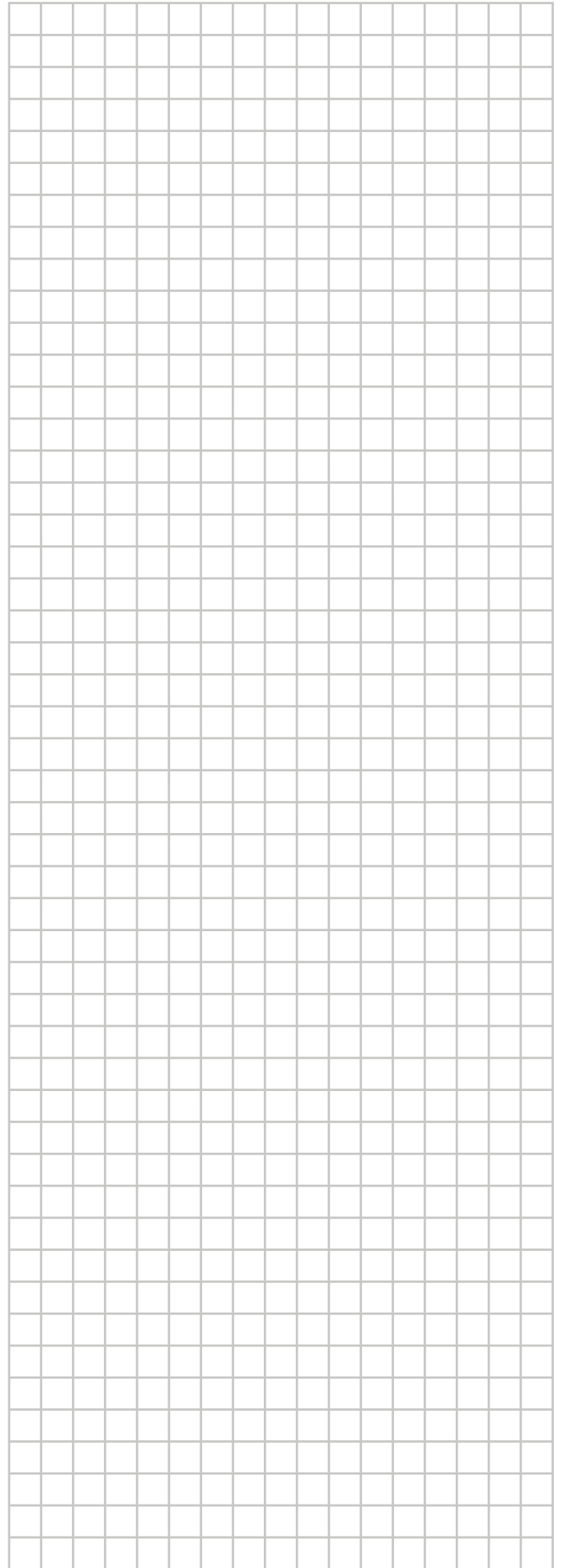
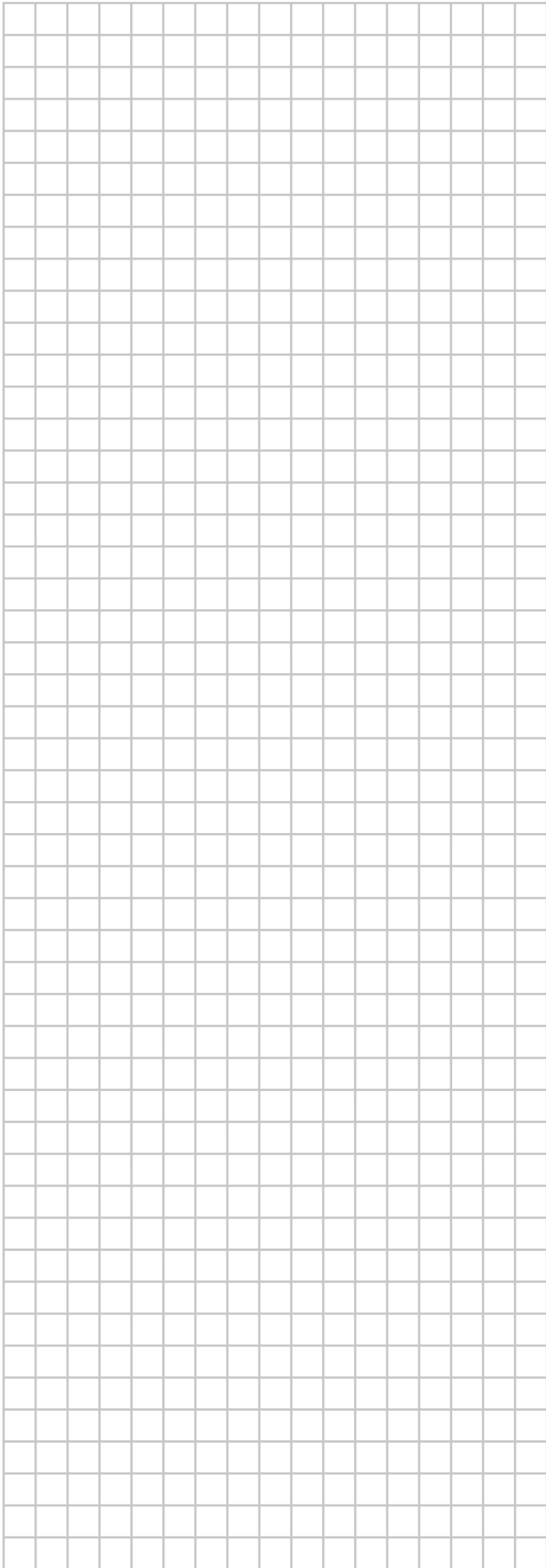
If the system does NOT properly operate except for the above mentioned cases and none of the above mentioned malfunctions is evident, investigate the system according to the following procedures.



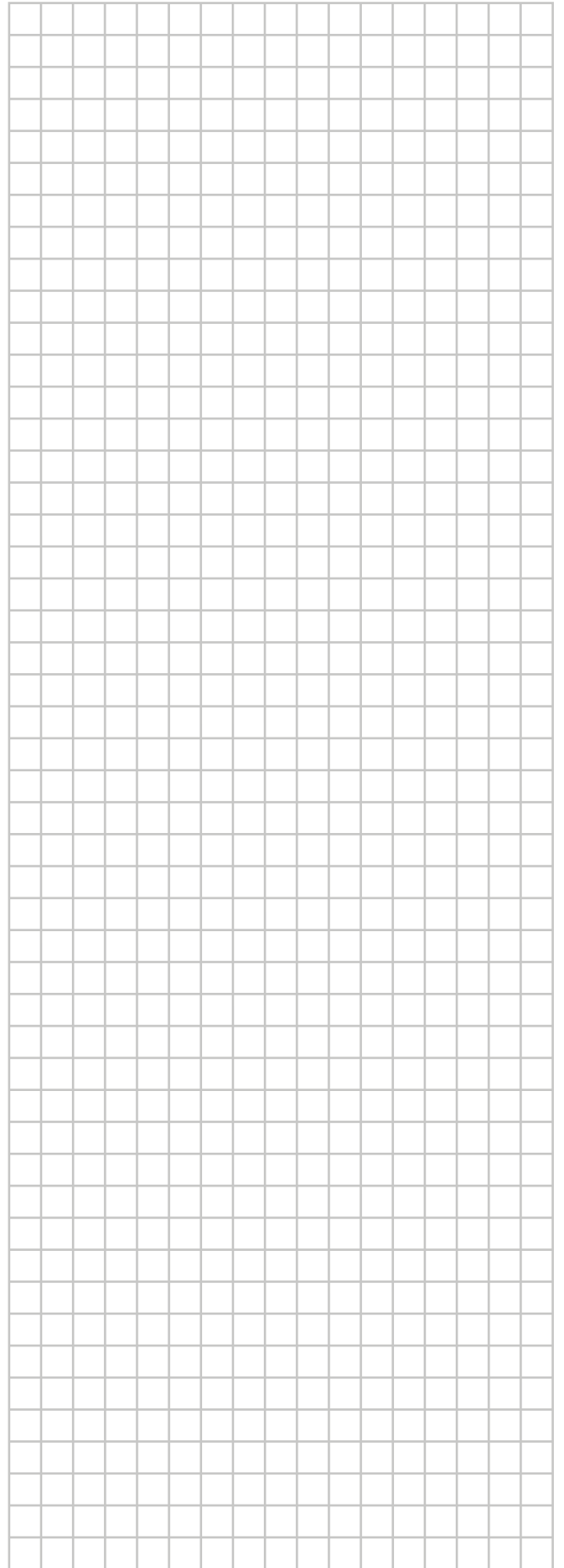
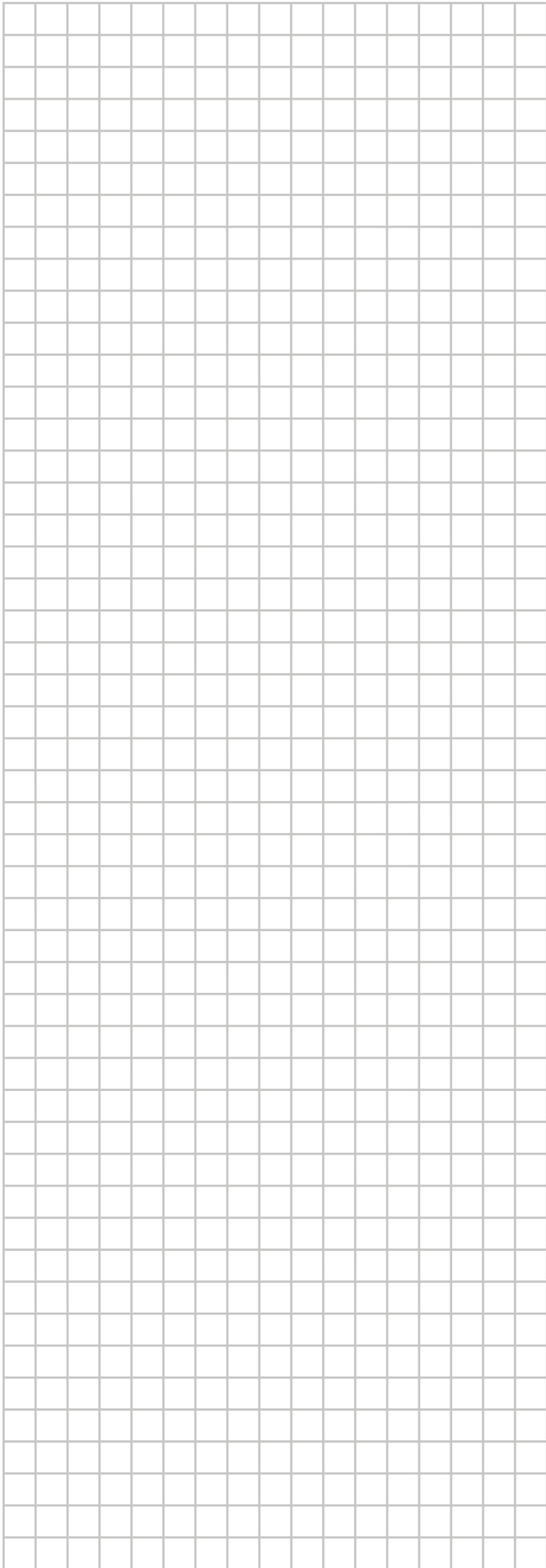
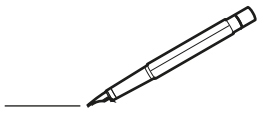
### INFORMATION

Refer to the user reference guide located on <http://www.daikineurope.com/support-and-manuals/product-information/> for more troubleshooting tips.

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







**EAC**



**DAIKIN INDUSTRIES CZECH REPUBLIC s.r.o.**

U Nové Hospody 1/1155, 301 00 Plzeň Skvrňany, Czech Republic

**DAIKIN EUROPE N.V.**

Zandvoordestraat 300, B-8400 Oostende, Belgium

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