



# Operation manual

## Daikin room air conditioner



**FTXF50D2V1B**  
**FTXF60D2V1B**  
**FTXF71D2V1B**

**FTXF50A2V1B**  
**FTXF60A2V1B**  
**FTXF71A2V1B**

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:

- Read the documentation carefully before operating the user interface to ensure the best possible performance.
- Request the installer to inform you about the settings that he used to configure your system. Check if he has filled in the installer settings tables. If NOT, request him to do so.
- 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 User safety instructions

Always observe the following safety instructions and regulations.

## 2.1 Instructions for safe operation



### WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.



### 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.



### WARNING

- Do NOT modify, disassemble, remove, reinstall or repair the unit yourself as incorrect dismantling or installation may cause an electrical shock or fire. Contact your dealer.

- In case of accidental refrigerant leaks, make sure there are no naked flames. The refrigerant itself is entirely safe, non-toxic and mildly flammable, but it will generate toxic gas when it accidentally leaks into a room where combustible air from fan heaters, gas cookers, etc. is present. Always have qualified service personnel confirm that the point of leakage has been repaired or corrected before resuming operation.

 **CAUTION**

- ALWAYS use a user interface to adjust the angle of the flap. When the flap is swinging and you move it forcibly by hand, the mechanism will break.
- Be careful when adjusting the louvers. Inside the air outlet, a fan is rotating at high speed.

 **CAUTION**

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

 **WARNING**

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

 **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**

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 so as to prevent mechanical damage and in a well-ventilated room without continuously operating ignition sources (e.g. open flames, an operating gas appliance, or an operating electric heater). The room size shall be as specified in the General safety precaution.

 **DANGER: RISK OF ELECTROCUTION**

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

 **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.

### 3 About the system

#### WARNING

Be careful with ladders when working in high places.

#### WARNING

Improper detergents or cleaning procedure may cause damage on plastic components or water leakage. Splashed detergent on electric components, such as motors, may cause failure, smoke or ignition.

#### DANGER: RISK OF ELECTROCUTION

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

#### WARNING

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

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

### 3 About the system

#### WARNING: MILDLY FLAMMABLE MATERIAL

The refrigerant inside this unit is mildly flammable.

#### 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.

#### 3.1 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.

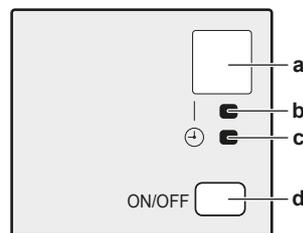
#### WARNING

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

#### INFORMATION

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

##### 3.1.1 Indoor unit display



- a Signal receiver
- b Operation lamp
- c Timer lamp
- d 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

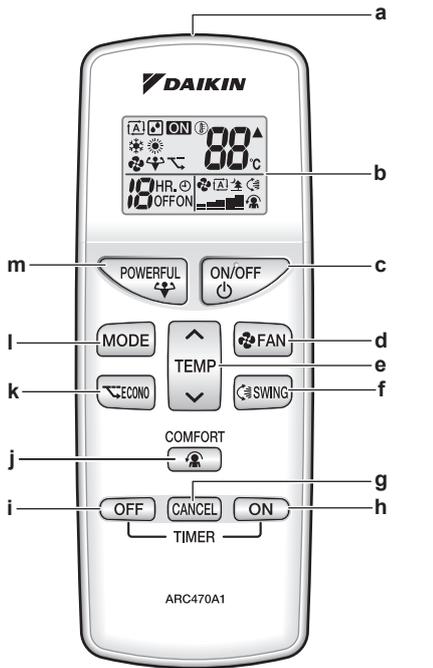
#### 3.2 About the user interface

- 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

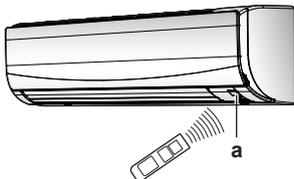
- Do NOT drop the user interface.
- Do NOT let the user interface get wet.

### 3.2.1 Components: User interface



- a Signal transmitter
- b LCD display
- c ON/OFF button
- d Fan setting button
- e Temperature adjustment button
- f Swing button
- g Timer cancel button
- h ON timer button
- i OFF timer button
- j Comfort airflow button
- k Econo button
- l Mode selector button
- m Powerful button

### 3.2.2 To operate the user interface



a Signal receiver

- 1 Aim the signal transmitter at the signal receiver on the indoor unit (maximum distance for communication is 7 m).

**Result:** When the indoor unit receives a signal from the user interface, you will hear a sound:

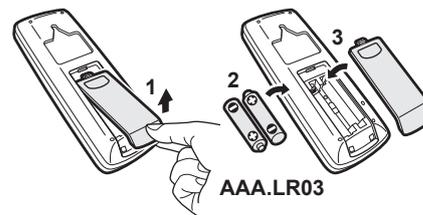
Sound	Description
Beep-beep	Operation starts.
Beep	Setting changes.
Long beep	Operation stops.

## 4 Before operation

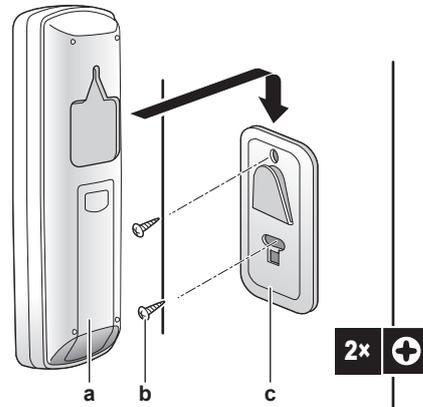
### 4.1 To insert the batteries

The batteries will last for about 1 year.

- 1 Remove the back cover.
- 2 Insert both batteries at once.
- 3 Put the cover back.



### 4.2 To mount the user interface holder



- a User interface
- b Screws (field supply)
- c User interface holder

- 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.

### 4.3 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.

## 5 Operation

### 5.1 Operation range

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

Operation mode	Operation range
Cooling <sup>(a)(b)</sup>	<ul style="list-style-type: none"> <li>▪ Outdoor temperature: -10~48°C DB</li> <li>▪ Indoor temperature: 18~32°C DB</li> <li>▪ Indoor humidity: ≤80%</li> </ul>
Heating <sup>(a)</sup>	<ul style="list-style-type: none"> <li>▪ Outdoor temperature: -15~24°C DB</li> <li>▪ Indoor temperature: 10~30°C DB</li> </ul>
Drying <sup>(a)</sup>	<ul style="list-style-type: none"> <li>▪ Outdoor temperature: -10~48°C DB</li> <li>▪ Indoor temperature: 18~32°C DB</li> <li>▪ Indoor humidity: ≤80%</li> </ul>

<sup>(a)</sup> A safety device might stop the operation of the system if the unit runs outside its operation range.

<sup>(b)</sup> Condensation and water dripping might occur if the unit runs outside its operation range.

## 5 Operation

### 5.2 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.

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.
 Heating	The system heats up a room to the temperature setpoint.
 Cooling	The system cools down a room to the temperature setpoint.
 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.

#### 5.2.1 To start/stop operation mode and to set the temperature



 **ON**: Unit is operating.

 **A**: Operation mode = Automatic

 **D**: Operation mode = Drying

 **H**: Operation mode = Heating

 **C**: Operation mode = Cooling

 **F**: Operation mode = Fan only

 **88**°C: Shows the set temperature.

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

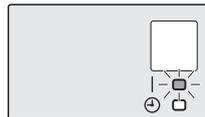
**Result:** The mode will be set in the following sequence:



- 2 Press  to **start** operation.

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

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



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

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

- 4 Press  to **stop** operation.

**Result:**  disappears from the LCD.

**Result:** The operation lamp goes off.

### 5.3 Airflow rate

#### INFORMATION

- When using drying operation mode, you CANNOT adjust the airflow rate setting.
- The airflow rate in heating mode will lower to avoid generating cold airflow. When temperature of the airflow rise, operation will continue at the set airflow rate.

- 1 Press  to choose:

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

#### INFORMATION

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

#### 5.3.1 To adjust the airflow rate

- 1 Press  to change the airflow setting as follows:



### 5.4 Airflow direction

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

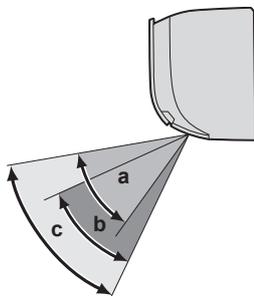
**What.** The system directs the airflow differently, depending on the user selection (swinging or fixed position). It does so by moving the vertical blades.

Setting	Airflow direction
 Vertical auto swing	Moves up and down.
 [-]	Stays in a fixed position.

**CAUTION**

- ALWAYS use a user interface to adjust the angle of the flap. When the flap is swinging and you move it forcibly by hand, the mechanism will break.
- Be careful when adjusting the louvers. Inside the air outlet, a fan is rotating at high speed.

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.



- a Flap range in cooling or drying operation
- b Flap range in heating operation
- c Flap range in fan only operation

**5.4.1 To adjust the airflow direction**

- 1 To use auto swing, press

**Result:** will appear on the LCD.

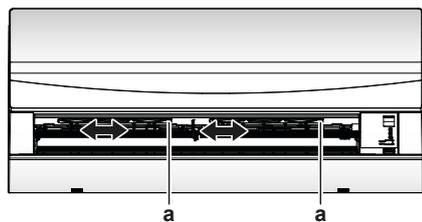
**Result:** The flap (horizontal blade) will begin to swing.

- 2 To use fixed position, press when the flap reaches the desired position.

**Result:** disappears from the LCD.

**5.4.2 To adjust the louvers (vertical blades)**

- 1 Hold 1 or both knobs and move the louvers.



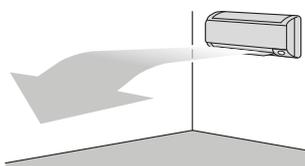
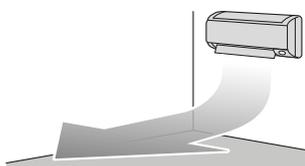
a Knobs

**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.

**5.5 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.

**Cooling operation mode****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.

**5.5.1 To start/stop Comfort airflow operation**

- 1 Press to start.

**Result:** The flap position will change, is displayed on the LCD, and the airflow rate is set to automatic.

Mode	Position of flap...
Cooling/Drying	Up
Heating	Down

**Note:** Comfort airflow operation is NOT available in Fan only mode.

- 2 Press to stop.

**Result:** The flap will return to the position from before the Comfort airflow mode; disappears from the LCD.

**5.6 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 and Comfort airflow operation. The last selected function takes priority.

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

**5.6.1 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 or if you change operation mode, operation will be cancelled; disappears from the LCD.

**5.7 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.

## 6 Energy saving and optimum operation

### 5.7.1 To start/stop Econo operation

- 1 Press  to start.

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

- 2 Press  to stop.

**Result:**  disappears from the LCD.

### 5.8 OFF/ON timer operation

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

#### 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.

### 5.8.1 To start/stop OFF timer operation

Use this feature if the unit is operating and you want to stop operation after a certain time.

- 1 Press  to start.

**Result:**  is displayed on the LCD and the timer lamp lights up.

#### INFORMATION

Each time  is pressed, the time setting advances by 1 hour. The timer can be set between 1 to 9 hours.

- 2 Press  to stop.

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

#### 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.

### 5.8.2 To start/stop ON timer operation

- 1 Press  to start.

**Result:**  is displayed on the LCD and the timer lamp lights up.

#### INFORMATION

Each time  is pressed, the time setting advances by 1 hour. The timer can be set between 1 to 12 hours.

- 2 Press  to stop.

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

### 5.8.3 To combine OFF timer and ON timer

- 1 To set the timers, refer to "5.8.1 To start/stop OFF timer operation" [p. 8] and "5.8.2 To start/stop ON timer operation" [p. 8].

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

- 2 Example of what is displayed on the LCD if you combine the 2

timers: 

## 6 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.

#### NOTICE

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

#### WARNING

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

#### 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.

## 7 Maintenance and service

### 7.1 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

Applicable legislation on **fluorinated greenhouse gases** requires that the refrigerant charge of the unit is indicated both in weight and CO<sub>2</sub> equivalent.

**Formula to calculate the quantity in CO<sub>2</sub> equivalent tonnes:** 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 so as to prevent mechanical damage and in a well-ventilated room without continuously operating ignition sources (e.g. open flames, an operating gas appliance, or an operating electric heater). The room size shall be as specified in the General safety precaution.

**NOTICE**

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

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

**DANGER: RISK OF ELECTROCUTION**

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

**WARNING**

To prevent electrical shocks or fire:

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

**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.

Following symbols may occur on the indoor unit:

Symbol	Explanation
	Measure the voltage at the terminals of main circuit capacitors or electrical components before servicing.

## 7.2 To clean the indoor unit and user interface

**WARNING**

Improper detergents or cleaning procedure may cause damage on plastic components or water leakage. Splashed detergent on electric components, such as motors, may cause failure, smoke or ignition.

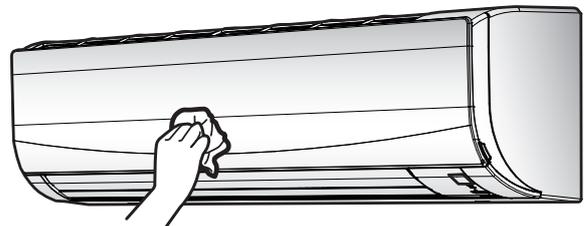
- NOTICE**
- Do NOT use gasoline, benzene, thinner, polishing powder or liquid insecticide. **Possible consequence:** Discoloration and deformation.
  - Do NOT use water or air of 40°C or higher. **Possible consequence:** Discoloration and deformation.
  - Do NOT use polishing compounds.
  - Do NOT use a scrubbing brush. **Possible consequence:** The surface finishing peels off.
  - As an end user, you may NEVER clean inside parts of the unit by yourself; this work must be performed by a qualified service person. Contact your dealer.

**DANGER: RISK OF ELECTROCUTION**

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

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

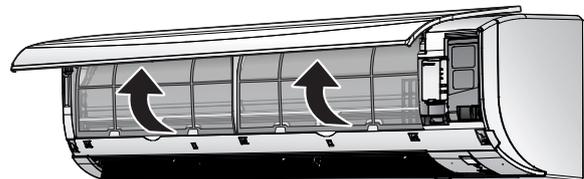
## 7.3 To clean the front panel



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

## 7.4 To open the front panel

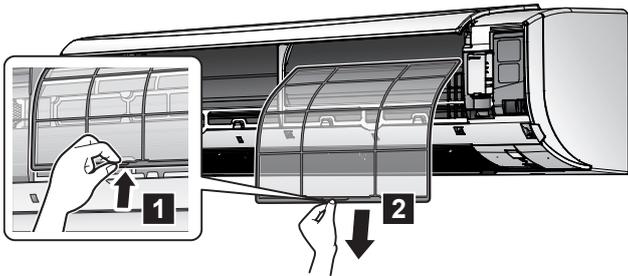
- Hold the front panel by the panel tabs on both sides and open it.



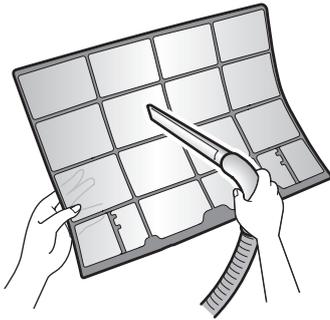
## 7.5 To clean the air filters

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

## 8 Troubleshooting



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



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



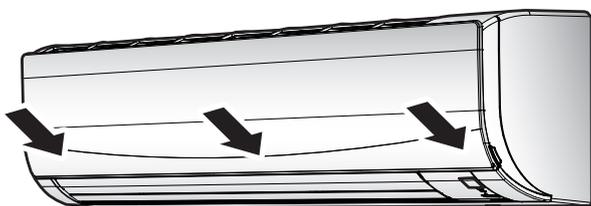
- 5 Install all filters back in their original positions.

### **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.

## 7.6 To close the front panel

- 1 Set the filters as they were.
- 2 Gently press the front panel at both sides and at the center until it clicks.



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

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

- 1 Press **MODE** and select fan only operation.
- 2 Press **ON/OFF** to 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.

### **i** 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 Troubleshooting

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

### **!** WARNING

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

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

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

Malfunction	Measure
If a safety device such as a fuse, a 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.
The operation lamp flashes and you can check the error code by the user interface. To display the error code see the user reference guide.	Notify your installer and report the error code.

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

### **i** INFORMATION

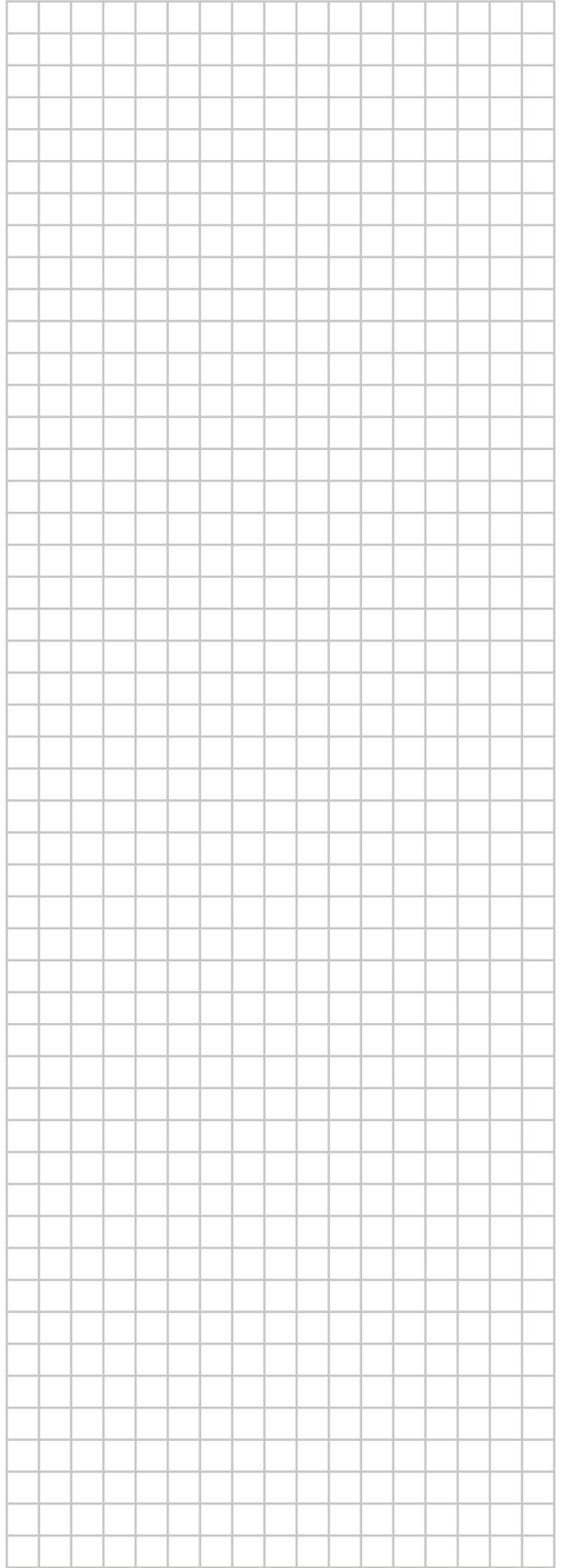
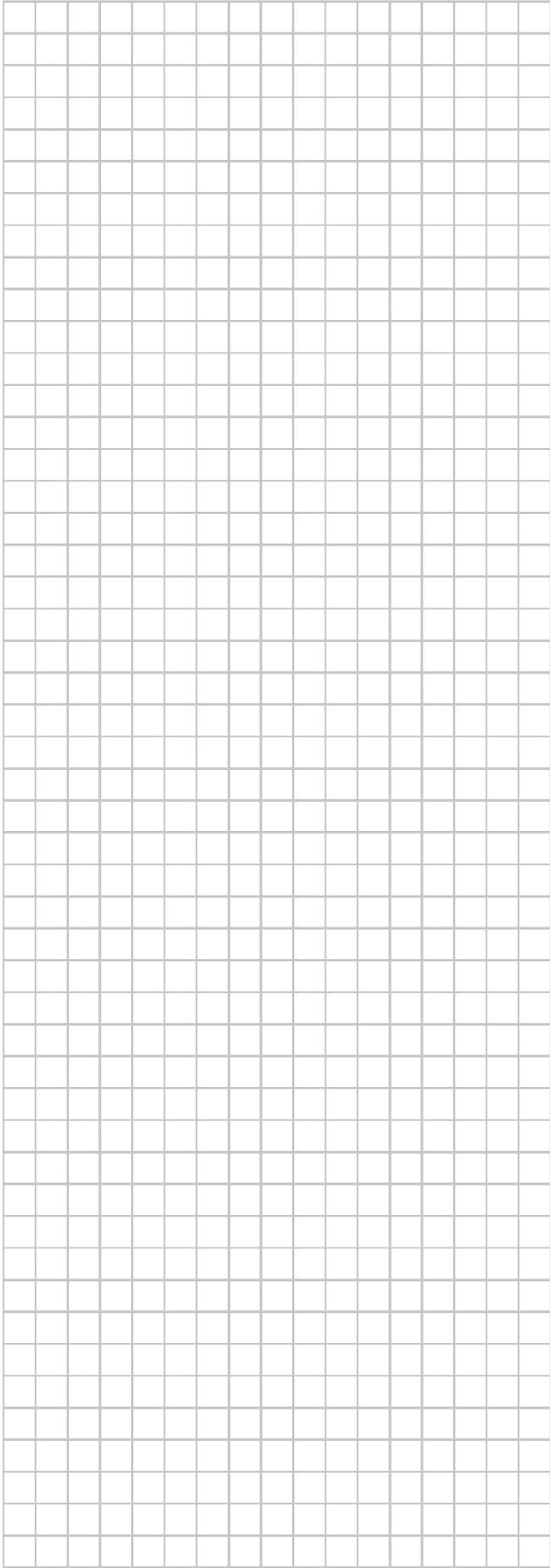
Refer to the reference guide located on <http://www.daikineurope.com/support-and-manuals/product-information/> for more troubleshooting tips.

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).

## 9 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.



**ERC**



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