



Operation manual

Daikin room air conditioners



FTXP50M2V1B
FTXP60M2V1B
FTXP71M2V1B

Operation manual
Daikin room air conditioners

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



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.

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

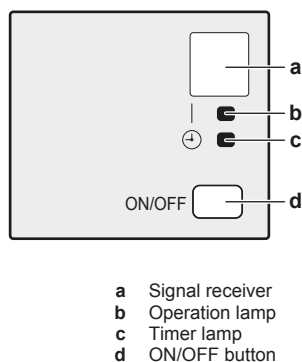
The sound pressure level is less than 70 dBA.



WARNING

- Do NOT modify, disassemble, remove, reinstall or repair the unit yourself as incorrect dismantling or installation may cause an 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.

2.1.1 Indoor unit display

**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

Wireless remote control**INFORMATION**

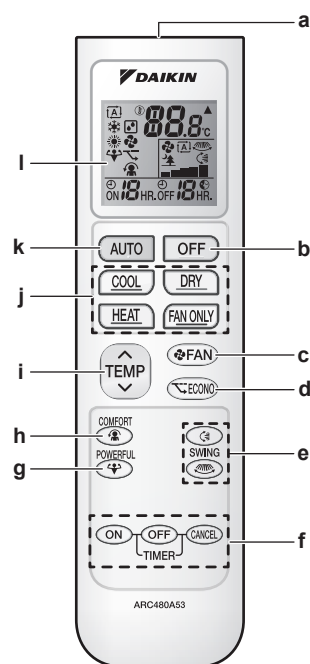
The indoor unit is delivered with the wireless remote control as the user interface. This manual describes only operation with this user interface. If another user interface is connected, refer to the operation manual of the connected user interface.

- **Direct sunlight.** Do NOT expose the wireless remote control 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 wireless remote control signals operate other appliances, move the other appliances, or contact your installer.
- **Curtains.** Make sure that curtains or other objects do NOT block the signal between the unit and the wireless remote control.

**NOTICE**

- Do NOT drop the wireless remote control.
- Do NOT let the wireless remote control get wet.

2.2.1 Components: Wireless remote control



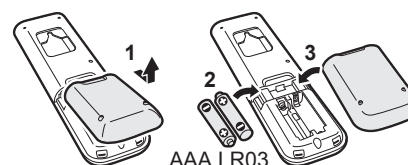
- a Signal receiver
b OFF button
c Fan setting button
d Econo operation button
e Swing buttons
f Timer setting buttons (ON, OFF, cancel)
g Powerful operation button
h Comfort operation button
i Temperature adjustment button
j Operation mode buttons
k Automatic operation mode button
l LCD display

3 Before operation

3.1 To insert the batteries

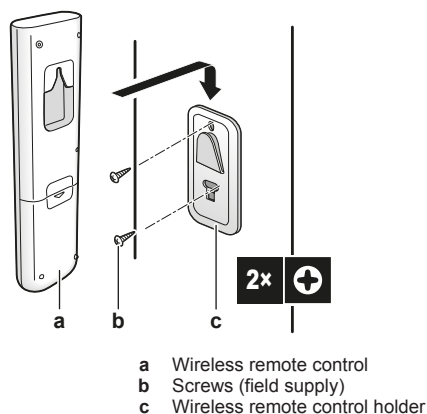
The batteries will last for about 1 year.

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



4 Operation

3.2 To mount the wireless remote control 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 wireless remote control on the holder.

3.3 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.

4 Operation

4.1 Operation range

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

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

^(a) A safety device might stop the operation of the system if the unit runs outside its operation range.

^(b) Condensation and water dripping might occur if the unit runs outside its operation range.

4.2 Operation mode and temperature setpoint

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

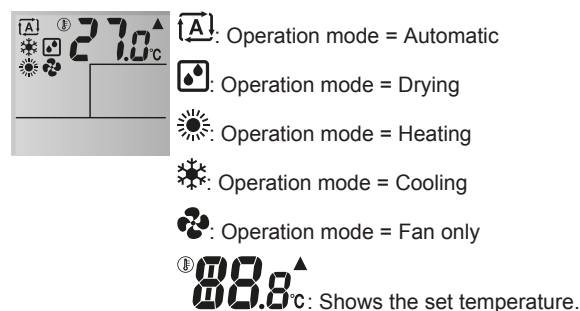
- Heat up or cool down a room
- Blow air in a room without heating or cooling
- Decrease the humidity in a room

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

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.

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



- 1 Start operation by pressing one of the following buttons.

Mode	Press	Result
Automatic operation	AUTO	 The operation lamp lights up.
Cooling operation	COOL	
Drying operation	DRY	
Heating operation	HEAT	
Fan only operation	FAN ONLY	

- 2 Press or on the button one or more times to set the temperature. You CANNOT adjust the temperature in **drying** or **fan only** operation mode.

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

- 3 Press to stop operation.
Result: The operation lamp goes off.

4.3 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.

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 alternately up and down and from side to side
[—]	Stays in a fixed position.




CAUTION

ALWAYS use the wireless remote control or other user interface (if applicable) 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.

4.4.3 To use 3D airflow direction

- 1 Press  and .

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

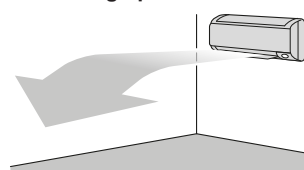
- 2 To use fixed position, press  and  when the flaps and louvers reach the desired position.

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

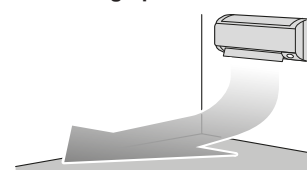
4.5 Comfort airflow operation

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.

4.5.1 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.

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 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.



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

5 Energy saving and optimum operation

4.7 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.

4.7.1 To start/stop Econo operation

- Press **ECONO** to start.

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

- Press **ECONO** to stop.

Result: **ECONO** disappears from the LCD.

4.8 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.

4.8.1 To start/stop OFF timer operation

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

- Press **OFF**.

Result: **OFF** **1 HR.** is displayed on the LCD and the timer lamp lights up.

- Press **OFF** again if you want to change the time setting.



INFORMATION

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

Example: If **OFF** **5 HR.** is set when the unit is operating, operation will stop after 5 hours.

- To cancel the setting, press **CANCEL**.

Result: **OFF** and the time setting disappear from the LCD and the timer lamp goes off.



INFORMATION

Night set mode

When the OFF timer is set, 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.

4.8.2 To start/stop ON timer operation

Use this feature if the unit is NOT operating and you want to start operation after a certain time.

- Press **ON**.

Result: **ON** **1 HR.** is displayed on the LCD and the timer lamp lights up.

- Press **ON** again if you want to change the time setting.



INFORMATION

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

Example: If **ON** **2 HR.** is set when the unit is NOT operating, operation will start after 2 hours.

- To cancel the setting, press **CANCEL**.

Result: **ON** and the time setting disappear from the LCD and the timer lamp goes off.

4.8.3 To combine OFF timer and ON timer

- To set the timers, refer to "4.8.1 To start/stop OFF timer operation" [p. 6] and "4.8.2 To start/stop ON timer operation" [p. 6].

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

Example:

- If **ON** **8 HR.** **OFF** **1 HR.** is set when the unit is operating.

Result: Operation **stops** in 1 hour and then **starts** 7 hours later.

- If **ON** **2 HR.** **OFF** **5 HR.** is set when the unit is NOT operating.

Result: Operation **starts** in 2 hours and then **stops** 3 hours later.

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.



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.

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

Applicable legislation on **fluorinated greenhouse gases** requires that the refrigerant charge of the unit is indicated both in weight and CO₂ equivalent.

Formula to calculate the quantity in CO₂ 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 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 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.

6.2 To clean the indoor unit and wireless remote control



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.

- 1 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



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

6.4 About the air filters

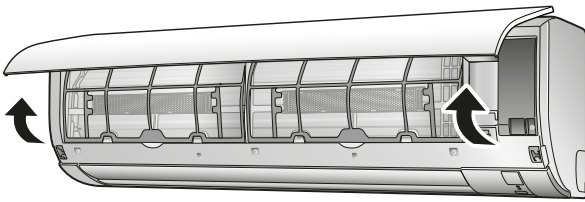
Operating the unit with dirty filters means that the filter:

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

6 Maintenance and service

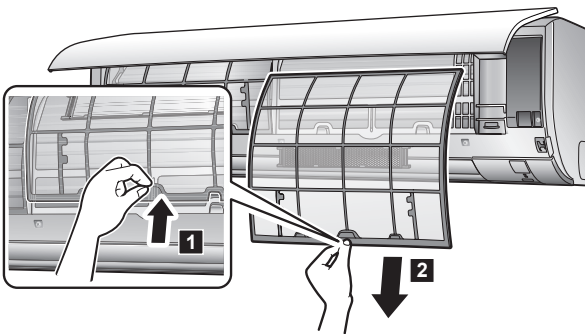
6.5 To open the front panel

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

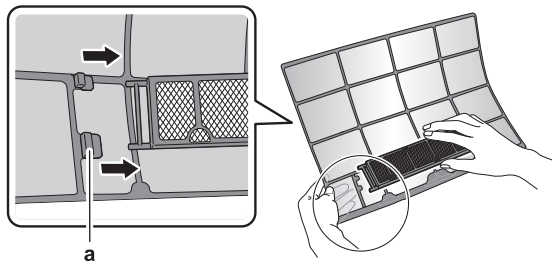


6.6 To clean the air filters

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

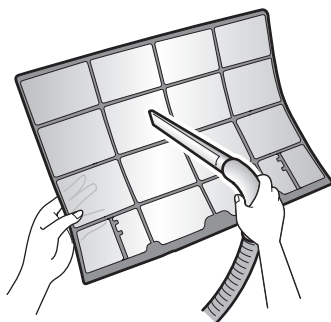


- 3 Remove the titanium apatite deodorising filter and silver particle filter from the tabs.

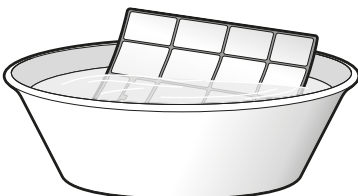


a Tab

- 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.



- 6 Install all filters back in their original positions.



INFORMATION

- If the dust does NOT come off easily, wash the air filters with a neutral detergent diluted in lukewarm water. Dry the air filters in the shade.
- Be sure to remove the titanium apatite deodorising and silver particle filters.
- It is recommended to clean the air filters every 2 weeks.

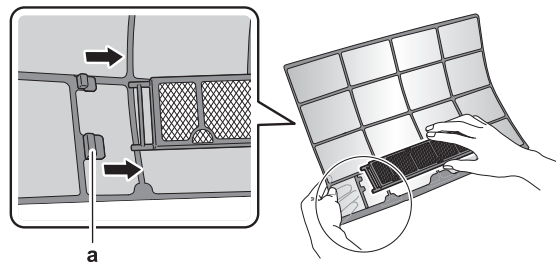
6.7 To clean the titanium apatite deodorising filter and the silver particle filter (Ag-ion filter)



INFORMATION

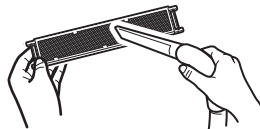
Clean the filter with water every 6 months.

- 1 Remove the titanium apatite deodorising and silver particle filters from the tabs.



a Tabs

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



- 3 Soak the filter for 10 to 15 minutes in warm water. Do NOT remove the filter from the frame.



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

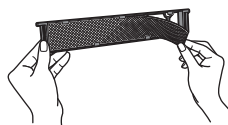
6.8 To replace the titanium apatite deodorising filter and the silver particle filter (Ag-ion filter)



INFORMATION

Replace the filter every 3 years.

- 1 Remove the filter from the tabs of the filter frame and replace the filter with a new one.



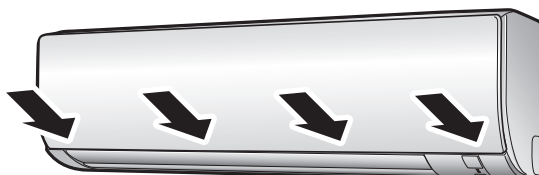


INFORMATION

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

6.9 To close the front panel

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



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

- Set the mode to **fan only** by pressing **FAN ONLY** button to dry the inside of the unit.
- After operation stops, turn the breaker OFF.
- Clean the air filters and replace them in their original positions.
- Remove the batteries from the wireless remote control.



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.

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.



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).

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, 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.
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.







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