

A decorative scrollwork graphic in the top left corner of the grey band.

# Split Air Conditioner

Owner's Manual

Residential Air Conditioners



MODEL: DS-9UIAK\_DOS-9UIAK  
DS-12UIAK\_DOS-12UIAK

Thank you for choosing Residential Air Conditioners, please read this owner's manual carefully before operation and retain it for future reference.



## ◆ CONTENTS

### Operation and maintenance

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The figures in this manual may be different with the material objects, please refer to the material objects for reference.



This symbol stands for the items should be forbidden



This symbol stands for the items should be followed



Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

## ◆ Notices for operation

Please read the following carefully before operating



When the voltage is very high, the

components would be easily damaged, when the voltage is very low, the compressor vibrates terribly and that the refrigerant system will be damaged, the compressor and electric components cannot work, the voltage should be stable; there shouldn't be big fluctuation



Be sure to pull out the power

plug as the air conditioner not in use for a long time. Otherwise, the accumulated dusts that may cause over heating or fire.



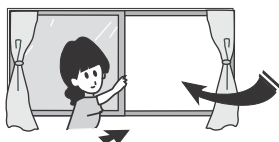
★ Never splice the power cord or use an extended cord.



It can cause overheating or fire.

Don't leave windows

and doors open for a long time while operating the air conditioner. It can decrease the air conditioning capacity.



Don't block the air intake or out-

let vents of both the outdoor and indoor units.

It can decrease the air conditioning capacity or cause a malfunction.



The power supply must adopt the

special circuit that with air switch protection and assure it has enough capacity.

The unit will be turned on or off according to your requirement automatically, please do not turn on or turn off the unit frequently, otherwise disadvantage effect may be caused to the unit.

When having a burning smell or

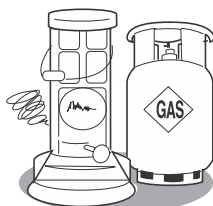
smoke, please turn off the power supply and contact with the service center.



If the abnormality still exists, the unit may be damaged, and may cause electric shock or fire.



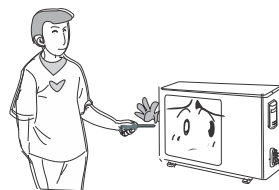
Keep combustible spray away from the units more than 1m.



It can cause a fire or explosion



Don't attempt to repair the air conditioner by yourself.



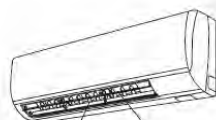
The wrong repair will lead to an electric shock or fire, so you should contact the service center to repair.

## ◆ Notices for operation

Please don't cut off or damage the power cords and control cords. If they are damaged, please ask the qualified personnel to change them.



To adjust the airflow direction appropriately. When operating the unit, to adjust the vertical and lateral air flow direction by use of remote controller.



Swing louver

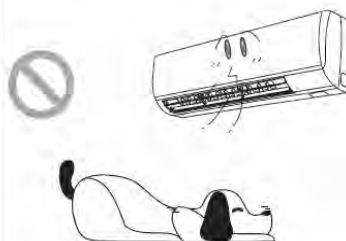
Guide louver

Don't insert your hands or stick into the air intake or outlet vents.

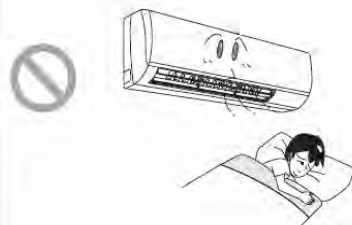


It could cause an accident.

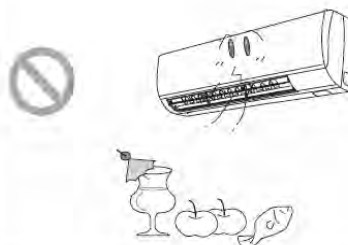
Don't blow the wind to animals and plants directly. It can cause a bad influence to them.



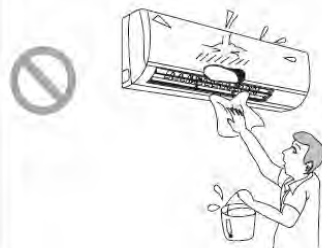
Don't apply the cold wind to the body for a long time. It can cause the health problems.



Don't use the air conditioner for other purposes, such as drying clothes, preserving foods, etc.



Splashing water on the air conditioner can cause an electric shock and malfunction.



Don't place a space heater near the air conditioner.



## ◆ Notices for use

### Working principle and special functions for cooling

#### Principle:

Air conditioner absorbs heat in the room and transmit to outdoor and discharged, so that indoor ambient temperature decreased, its cooling capacity will increase or decrease by outdoor ambient temperature.

#### Anti-freezing function:

If the unit is running in COOL mode and in low temperature, there will be frost formed on the heat exchanger, when indoor heat exchanger temperature decreased below 0 °C, the indoor unit micro-computer will stop compressor running and protect the unit.

### Working principle and special functions for heating

#### Principle:

- \* Air conditioner absorbs heat from outdoor and transmits to indoor, in this way to increase room temperature. This is the heat pump heating principle, its heating capacity will be reduced due to outdoor temperature decrease.
- \* If outdoor temperature becomes very low, please operate with other heating equipments.

#### Defrosting:

- \* When outdoor temperature is low but high humidity, after a long while running, frost will form on outdoor unit, that will effect the heating effect, at this time, the auto defrosting function will act, the heat running will stop for 8-10mins.
- \* During the auto defrosting, the fan motors of indoor unit and outdoor unit will stop.
- \* During the defrosting, the indoor indicator flashes, the outdoor unit may emit vapor. This is due to the defrosting, it isn't malfunction.
- \* After defrosting finished, the heating will recover automatically.

#### Anti-cool wind function:

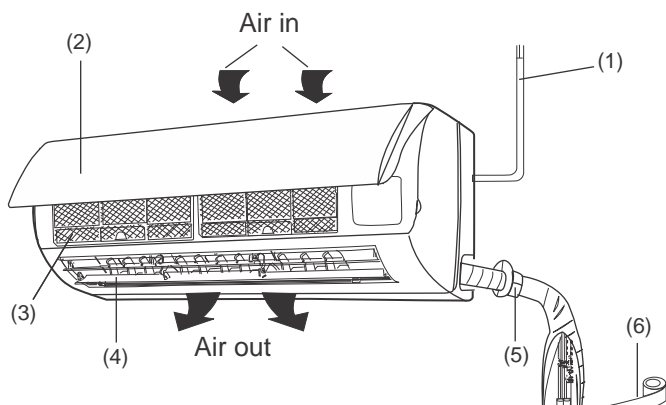
In Heat mode, the following three kinds of status, if indoor heat exchanger hasn't achieve certain temperature that indoor fan motor will not start, in this way to prevent blowing cool wind (within 3 mins):

1. Heat operation just started up,
2. After Auto defrosting operation is finished,
3. Heating under low temperature.

The climate type of this unit is according to the nameplate.

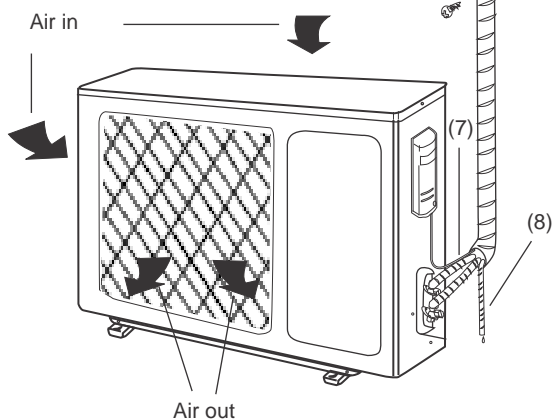
## ◆ Names and functions of each part

### Indoor unit



- (1) Power cable
- (2) Front panel
- (3) Filter
- (4) Guide louver
- (5) Wall pipe
- (6) Bind tape
- (7) Connection wire
- (8) Drainage pipe
- (9) Remote control

### Outdoor unit



## ◆ Remote control operation



## Remote control operation

### Remote control name and functions

**Note:** Make sure that there is nothing between the receiver and the remote control; do not drop the remote control; do not wet the remote control with any liquid or expose it directly to sunlight, or place it near any heat source.

Transmitter signal



Remote control

ON/OFF

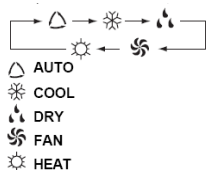
ON/OFF Key

**ON / OFF:** When the unit is switched on and off, the night-time and timer functions will be cancelled, but the pre-selected time remains active.

MODE

MODE Key

**FUNCTION:** Key for selecting the sequence mode between: Auto, Cool, Dry, Fan, Heat. The default mode is Auto (the temperature does not appear). With the Heat mode, the initial value is 28 °C. In the other modes, the initial value is 25 °C.



SLEEP

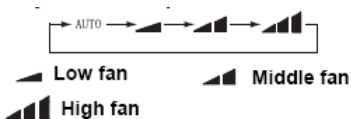
SLEEP Key

**NIGHT-TIME OPERATION:** key for adjusting the night-time temperature. When the unit lights up, by default, the night-time function is switched off. When the unit is disconnected, the night-time function is cancelled. When the night-time function is selected, SLEEP will appear on the screen. This way, the timer can be adjusted. In Fan or Auto mode this function cannot be used.

FAN

FAN key

**FAN:** Key for selecting the fan speed. The default mode is Auto



CLOCK

CLOCK Key

**CLOCK:** Key for adjusting the clock time. The signal ⌚ will flash on the screen and, for 5 seconds, the values can be adjusted by pressing "+" or "-". With the signal flashing, if the Clock is pressed again, the signal ⌚ will stop flashing to indicate that the clock has been adjusted satisfactorily. When the control is activated, by default the programmed time is 12.00 and the symbol ⌚ will appear on screen. If this symbol does not appear, the data will be the TIMER value.



## ◆ Remote control operation

### Remote control name and functions

**Note:** this is a general remote control manual, and it can be used for multi-function air conditioners; for some functions, not included in this model, if the corresponding key is pressed on the remote control, the unit will continue operating in its original status.



Remote control

#### X-FAN

##### X-FAN Key

By pressing this key, in the Refrigeration and Dehumidising mode, the icon will appear on the screen, and the inner unit will continue operating for 10 minutes to dry the inner unit, even though the unit has been switched off. When the unit lights up, by default, the X/FAN function is switched off. In AUTO, FAN and HEAT mode, the X-FAN function cannot be programmed, and neither can it be displayed on screen.

#### TURBO

##### TURBO Key

In COOL or HEAT mode, press this key to activate or deactivate the TURBO function. Once this function is activated, its icon will be displayed. If the mode or speed is changed, this function is cancelled automatically.

+

##### + Key

To increase the programmed temperature.

By pressing this key, the temperature can be programmed when the unit is switched on. If the key is pressed continuously for more than 2 seconds, the information will change very quickly until the key is no longer pressed, then it will send the information. In the AUTO mode, the temperature cannot be selected. The temperature range is from 16 °C to 30 °C.

-

##### - Key


To decrease the programmed temperature.

By pressing this key, the temperature can be programmed when the unit is switched on. If the key is pressed continuously for more than 2 seconds, the information will change very quickly until the key is no longer pressed, then it will send the information. In the AUTO mode, the temperature cannot be selected.

#### LIGHT

##### LIGHT Key

LIGHT: key for activating and deactivating the light on the screen of the inner unit.

When the light is deactivated, the symbol  will disappear from the control screen.

When the unit lights up, by default, the light is switched on.

## ◆ Remote control operation

### Remote control name and functions

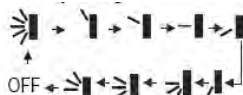
**Note:** this is a general remote control manual, and it can be used for multi-function air conditioners; for some functions, not included in this model, if the corresponding key is pressed on the remote control, the unit will continue operating in its original status.


Remote control




**SWING key**

Key for sequentially activating and deactivating the direction of the air.




When the button  switches off, the slats will stop in the current position. This is a universal control, if the control sends the following three statuses, the swing status of the main unit will be:



When the slat starts to move up and down, if the Swing function is switched off, the slot will stop in the current position.  It indicates that the slat swings up and down, through five positions.

#### TIMER ON

##### **+TIMER ON Key**

Key for selecting the switch on function for a specific time. The ON signal will flash on the screen. The symbol  will be hidden, the numeric section becomes the timer programming status. During the 5 seconds of flashing, use keys + or - to adjust the time value. Each time they are pressed, they increase or decrease the value by a minute. If the key is pressed for 2 seconds continuously, the data will change very quickly until the key is no longer pressed, then it will send the information. Once the timer has been programmed, activate the Timer On button again. If pressed a third time, the timer will be cancelled. Before programming the timer, correct the time.

#### TIMER OFF

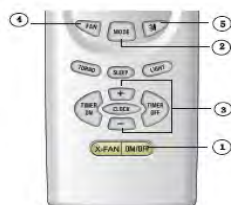
##### **TIMER OFF Key**

Once the TIMER OFF key has been pressed, the icon will flash to program the timer switch off. The programming method is the same as for the TIMER ON key.

## ◆ Remote control operation

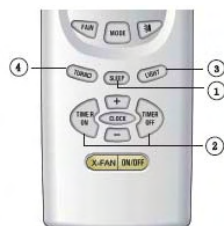
### Operating guide. General functions

- 1- Press ON/OFF to switch on the unit. (Note: When the unit is switched off, the slats close automatically)
- 2- Press the MODE key to select the desired mode or, press COOL or HEAT to go directly into these respective modes.
- 3- Select the desired temperature using the keys + and – (in AUTO mode, it is not necessary to select the temperature).
- 4- Press the FAN key and select the fan speed:  
Automatic, low-average-high-very high.
- 5- Select the direction of the air flow using the SWING Key



### Operating guide. Optional functions

- 1- Press the SLEEP button for night-time operation,
- 2- Press TIMER ON and TIMER OFF to program the time on the timer.
- 3- Press the LIGHT button, to switch the light in the display on or off (this function is not available in some models)
- 4- Press the TURBO button to increase or reduce the temperature quickly.



### Introduction for special functions

#### **X-FAN function:**

With this function, the moisture in the evaporator of the inner unit will still be removed, to prevent any mould forming.

- 1.- With this function activated: When the unit is switched off, the fan will continue operating for 10 minutes at low speed. If the inner unit fan is to be stopped manually, press the X-FAN key
- 2.- With this function activated: When the unit is switched off by pressing the ON/OFF key, the unit will stop completely.

#### **AUTO RUN function:**


This function allows the unit to automatically select the most suitable operating mode according to the surrounding ambient temperature. With this function, the temperature will not be displayed in the LCD screen.

#### **TURBO Function:**




With this function, the unit will operate at a very fast fan speed, so as to cool or heat quickly and to adapt the ambient temperature to the preselected temperature as soon as possible.

## ◆ Remote control operation

### LOCK function:

Use this function to lock and unlock the keyboard. The icon  indicates that it is locked. Press the keys + and – simultaneously to lock or unlock.

### Adjusting the air direction – SWING:

- 1- Press the Swing key  continuously for more than 2 seconds, and the unit baffles will move and stop, maintaining their position when the key is released.
- 2- Under the Swing mode, when the on/off status is changed to , if this button is pressed again 2 sec. later, the status  will switch off directly, if pressed again, in 2 sec. the change in the Swing status will also depend on the rotation sequence determined beforehand.

### Changing °F to °C:

To change between Fahrenheit and Centigrade, press the MODE and - key simultaneously, with the unit switched off.

### New defrosting function:

What does this mean: once this function has been activated using the remote control, and the unit is in the defrosting mode, if the unit is switched off using the control, the unit will not stop the defrosting until this function has finished; if the programmed mode is changed using the control, the last programmed function will not run until the defrosting has finished.

With this function activated: When the unit is switched off, press the Mode and X-FAN buttons simultaneously to activate or deactivate this new function. If the unit is in Defrosting mode, H1 will appear on the remote control screen. If we change to Heat mode, H1 will appear on the remote control screen and will flash for 5 seconds, if we press the +/- buttons, H1 will disappear and the programmed temperature will be displayed.

When we switch on the remote control, this new defrosting function will be deactivated.

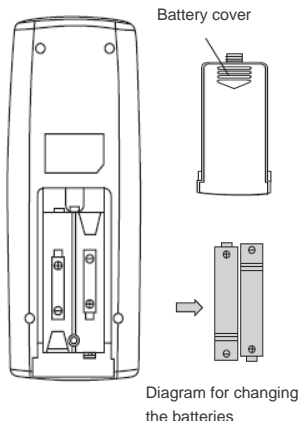
## Arranging the batteries

The remote control has 2 x AAA1.5V batteries

- 1- Remove the lid at the back of the control, by sliding it backwards
- 2- Remove the old batteries
- 3- Place two new batteries (AAA 1.5V type), taking into account their polarity.
- 4- Replace the lid on the rear of the control

### IMPORTANT

- Make sure that the batteries are replaced with two new batteries of the same kind. Otherwise, the remote control may not work properly.
- Remove the batteries if the equipment is not going to be used for some time.
- The remote control must be used within the action radius.
- Leave the control at a minimum distance of 1m from the TV or music centre.
- Do not leave the control near electrical apparatuses or sources of heat.
- If the control does not work properly, remove the batteries and put them back in again 30 seconds later. If it still does not work properly, change the batteries.



## ◆ Remote control operation

### Emergency operation

If the remote control gets lost or breaks, press the key for changing to manual mode, which is located at the rear. The mode will change to AUTO, and it will not be possible to change the temperature or speed of the fan.

The manual switch works as follows:

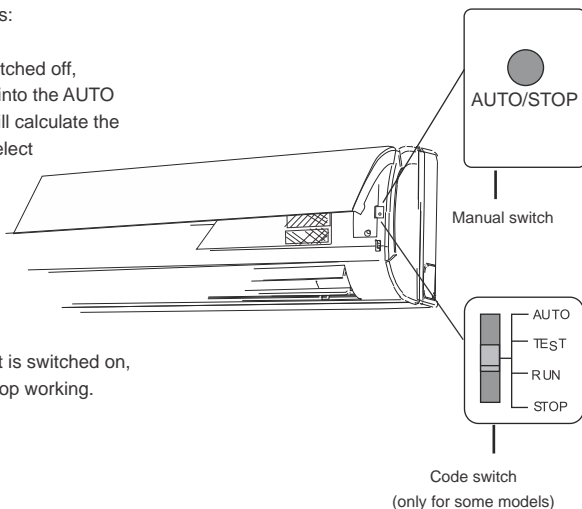
- In operation: When the unit is switched off, press ON/OFF and the unit will go into the AUTO RUN mode. The microprocessor will calculate the inner temperature of the room to select (COLD, HEAT; FAN) a mode for pleasant comfort-.

- When switched off: When the unit is switched on, press the button and the unit will stop working.

The switch works as follows:

- In operation: When the unit is switched off, adjust the switch code to the AUTO mode and the unit will go into the AUTO RUN mode. The microprocessor will calculate the inner temperature of the room to select (COLD, HEAT; FAN) a mode for pleasant comfort.

- When switched off: When the unit is switched on, press the button and the unit will stop working.



## ◆ Care and Cleaning



### Caution

- Disconnect the power supply before cleaning and maintenance.
- Do not splash water on the units for cleaning, as electric shocks may occur.
- Wipe the units with a dry soft cloth, or a cloth slightly moistened with water or cleaner (not with volatile liquid such as thinner or gasoline).

### Cleaning the Front Panel

Remove the front panel. Dip a piece of cloth into the water colder than 45 °C and dry it. Then wipe the dirty part of front panel.

Note: Do not immerse the front panel into water so as to protect microprocessor components and circuit diagram on the front panel.

### Cleaning the Air Filter (every 3 months)

Note: Do not touch the fin of indoor unit during cleaning to avoid personal injury.

#### ① Take down the air filter

Lift up the front panel.

Pull the air filter downwards to take it off, as shown in Fig.(a, b).



(Fig. A)

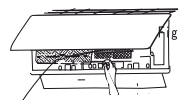
#### ② Clean the air filter

Use a vacuum cleaner to remove dust.

If the filters are dirty, wash them with warm water and mild detergent.

Dry the filters in the shade.

Note: Never use water above 45 °C to clean the air filter as it may cause deformation or discoloration.



(Fig. B)



#### ③ Reinstall the air filter

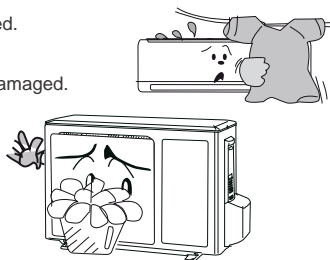
Reinstall the filters along the direction of arrowhead.  
Close the panel.



## ◆ Care and Cleaning

### Check before Use

- ① Be sure that nothing obstructs the air outlet and inlet.
- ② Check if the batteries of remote controller are replaced.
- ③ Check if the installation stand of the outdoor unit is damaged. If damaged, consult the technicians



### Maintenance after Use



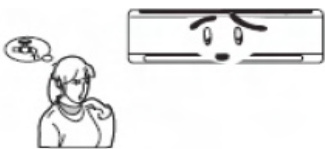


- ① Switch off the power supply.
- ② Clean the filters and bodies of indoor and outdoor units
- ③ Clear obstructions from the outdoor unit.
- ④ Repaint the rubiginous place on the outdoor unit to prevent it from spreading.

## ◆ Troubleshooting



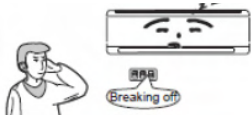


### CAUTION

The air conditioner is not expected to be serviced by users. Incorrect repair may cause electric shock or fire, so please contact an authorized service center for professional service. The following checks prior to contact may save your time and money


Phenomenon	Troubleshooting
<p>The unit does not operate:</p> 	<ul style="list-style-type: none"> <li>• The unit does not operate if it is turned on immediately after being turned off. This is to protect the unit. You are expected to wait for about 3 minutes.</li> </ul>
<p>Odours are emitted:</p> 	<ul style="list-style-type: none"> <li>• Some odours may be emitted from the indoor unit. This is the result of room smells (such as furniture, tobacco, ect.) which have been taken into the air conditioner.</li> <li>• Consult authorized service center for cleaning if the odours still exist.</li> </ul>
<p>"Water flowing" noise:</p> 	<ul style="list-style-type: none"> <li>• The swishing noise like water flowing is the sound of refrigerant flowing inside the unit.</li> </ul>
<p>Mist is emitted in COOL mode:</p> 	<ul style="list-style-type: none"> <li>• Cuando la temperatura del interior y la humedad son muy altas, este caso podría pasar. Esto ocurre cuando el aire de la habitación es enfriado rápidamente. Después de funcionar durante un rato y baje la temperatura y la humedad de la habitación, la neblina desaparecerá.</li> </ul>
<p>Cracking noise:</p> 	<ul style="list-style-type: none"> <li>• This is the sound of friction caused by expansion and/or contraction of panel or other parts due to the change of temperature</li> </ul>



## ◆ Troubleshooting

Phenomenon	Troubleshooting
<p>The unit can not be started up:</p> 	<ul style="list-style-type: none"> <li>• Is the power cut off?</li> <li>• Is the power plug loose? (If applicable )</li> <li>• Is the circuit protection device tripped off?</li> <li>• Is voltage higher or lower? (Tested by professionals)</li> <li>• Is the TIMER correctly used?</li> </ul>
<p>Cooling/Heating effect is poor:</p> 	<ul style="list-style-type: none"> <li>• Is temperature setting appropriate?</li> <li>• Is the inlet or outlet blocked?</li> <li>• Is the filter dirty?</li> <li>• Is the window or the door open?</li> <li>• Is low fan speed set?</li> <li>• Are there heat sources in the room?</li> </ul>
<p>Remote controller is not available:</p> 	<ul style="list-style-type: none"> <li>• Check if there is magnetic or electrical interference near the unit that may affecting operation of the controller. In this case, pull the plug out and reinsert it.</li> <li>• Is the remote controller within its operating range or obstructed? Check the condition of the batteries and replace them if necessary.</li> <li>• Check if the remote controller is damaged.</li> </ul>
<p>Water leakage of indoor unit:</p>	<ul style="list-style-type: none"> <li>• The humidity is high.</li> <li>• Condensate overflows.</li> <li>• Drain hose is loose.</li> </ul>
<p>Water leakage of outdoor unit:</p>	<ul style="list-style-type: none"> <li>• During cooling operation, condensate is generated around the pipes and connection joints.</li> <li>• During defrosting operation, the thaw water flows out.</li> <li>• During heating operation, the water on the heat exchanger drips out.</li> </ul>
<p>Noise from indoor unit:</p>	<ul style="list-style-type: none"> <li>• The noise emitted when the fan or compressor relay is switching on or off.</li> <li>• When the defrosting operation is started or stopped, there is a sound of refrigerant flowing in the reverse direction.</li> </ul>

## ◆ Troubleshooting

Phenomenon	Troubleshooting
H1: Defrosting	<ul style="list-style-type: none"> <li>• It is normal</li> </ul>
 If any one of the following situations occurs, immediately stop all operations, cut off the power supply, and contact the authorized personnel.	
<div> <div> <ul style="list-style-type: none"> <li>- There is harsh sound during operation.</li> <li>- Strong odours are emitted during operation</li> <li>- Water is leaking from the unit</li> <li>- The air switch or protection switch often trips</li> <li>- Water or other liquid is splashed into the unit</li> <li>- Power cord and power plug is overheating.</li> </ul> </div> <div>➔</div> <div>           Stop operation and cut off the power supply         </div> </div>	