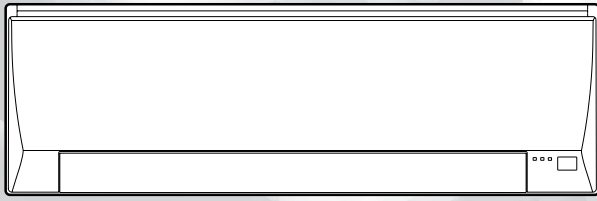


## OPERATING MANUAL



**Indoor Unit**  
ASVG09LLCA  
ASVG12LLCA

**Outdoor Unit**  
AOVG09LLCA  
AOVG12LLCA

### Contents

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**Before using this product, read these instructions thoroughly and keep this manual for future reference.**


## Safety Precautions

To prevent personal injury, injury to others, or property damage, read this section carefully before you use this product, and be sure to comply following safety precautions.

Incorrect operation due to failure to follow the instructions may cause harm or damage, the seriousness of which is classified as follows:


### WARNING

**This mark warns of death or serious injury.**




 This mark denotes an action that is PROHIBITED.

### CAUTION




**This mark warns of injury or damage to property.**

 This mark denotes an action that is COMPULSORY.

### WARNING

-  • This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- This unit contains no user-serviceable parts. Always consult authorized service personnel for repairing, installation, and relocation of this product. Improper installation or handling will cause leakage, electric shock, or fire.
- In the event of a malfunction such as burning smell, immediately stop operation of the air conditioner, and disconnect all the power supply by turning off the electrical breaker or disconnecting the power plug. Then consult authorized service personnel.
- Take care not to damage the power supply cable. If it is damaged, it should only be replaced by authorized service personnel.
-  • In the event of refrigerant leakage, be sure to keep away from fire or any flammables, and consult authorized service personnel.
- If you see lightning or hear thunder, there might be a lightning strike. To prevent electric shock hazard, turn off the air conditioner by using the remote controller, and do not touch the unit or the power plug during thunderstorm.
-  • Do not install the unit in area filled with mineral oil such as a factory or area containing a large amount of splashed oil or steam such as a kitchen.
- Do not start or stop the operation of this product by inserting or pulling out the power plug, or by turning on or off the circuit breaker.
- Do not use inflammable gases near the unit.
- Do not expose yourself directly to the cooling airflow for many hours.
- Do not insert your fingers or any other objects into outlet port, open panel, or intake grille.
- Do not operate with wet hands.

### CAUTION

-  • Provide occasional ventilation during use.
- Always operate the unit with air filters installed.
- Ensure that any electronic equipment is at least 1 meter away from either the indoor unit or outdoor unit.
- Unplug the power supply cable when not using the indoor unit for an extended period.
- After long period of use, check whether the installation stand does not deteriorate to prevent the unit from falling down.
- The airflow direction and the room temperature should be carefully considered when you use this product in a room with infants, children, elderly or sick persons.
-  • Do not direct the airflow at fireplaces or heating apparatus.
- Do not block or cover the intake grille and the outlet port.
- Do not apply any heavy pressure to radiator fins.
- Do not climb on, place objects on, or hang objects from the unit.
-  • Do not place vase or water container on the unit.
- Do not place any other electrical products or household belongings under indoor unit or outdoor unit. Dripping condensation from the unit might get them wet, and may cause damage or malfunction of your property.
- Do not expose the unit directly to water.
- Do not use this product for preservation of food, plants, animals, precision equipment, art work, or other objects. This may cause quality deterioration of those items.
- Do not expose animals or plants to the direct airflow.
- Do not drink the drainage from the air conditioner.
- Do not pull the power supply cable to disconnect the plug.
- Do not touch the aluminum fins of heat exchanger built-in the indoor or outdoor unit to avoid personal injury when you install or maintain the unit.

# Indoor Unit Overview and Operations

## 1 Intake grille

Before starting operation, make sure that the intake grille has been shut completely. Incomplete closing might have an effect on the proper working or performance of the product.

## 2 Manual AUTO button

Use when you lost the remote controller or remote control malfunction occurs.

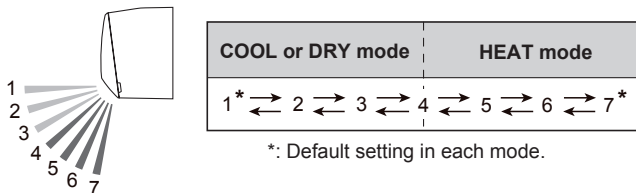
Status	Action	Mode or operation
In operation	Press more than 3 seconds.	Stop
Stopping	Press more than 3 seconds and less than 10 seconds.	AUTO
	Press more than 10 seconds. (Only for servicing.*)	Forced cooling
After cleaning	Press less than 3 seconds.	Filter indicator reset

\*:To stop forced cooling, press this button or START/STOP button on the remote controller.

## 3 Front panel

## 4 Vertical airflow direction louver

Each time you press SET button on the remote controller, the angle of the vertical airflow direction louver moves as follows:



- Do not adjust by hand.
- At the beginning of AUTO or HEAT mode, they may stay position 1 for a while for adjustment.
- If you set the angle to position 5–7 for more than 30 minutes in COOL or DRY mode, they automatically return to position 4. In COOL or DRY mode, if the angle is set to position 5–7 for many hours, condensation may be formed, and the drips may wet your property.

## 5 Drain hose

## 6 Remote control signal receiver

### CAUTION

- For appropriate signal transmission between remote controller and the indoor unit, keep the signal receiver away from following items:
  - Direct sunlight or other strong light
  - Flat-panel television screen

In rooms with instantaneous fluorescent lights, such as inverter type ones, the signal may not be transmitted properly. In such a case, consult the store that you purchased the product.

## 7 ECONOMY indicator (green)

Lights in ECONOMY operation.

## 8 TIMER indicator (orange)

Lights in TIMER operation, and blinks slowly when the timer setting error is detected.

As for the timer setting error, refer to "Auto-restart function" on page 4.

## 9 OPERATION indicator (green)

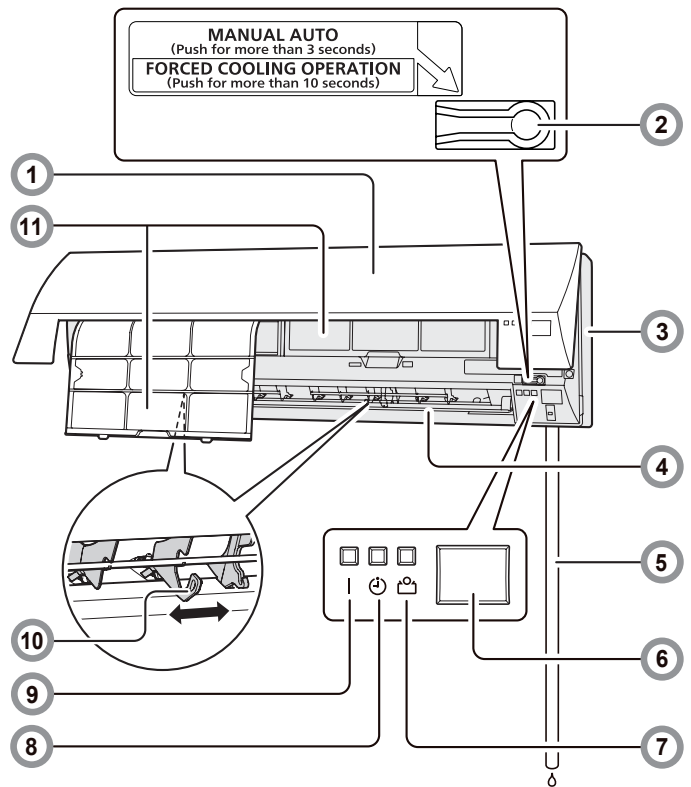
Lights in normal operation, and blinks slowly in automatic defrosting operation.

## 10 Horizontal airflow direction louvers

### CAUTION

- Before you adjust the horizontal airflow direction, make sure that the vertical airflow direction louver has been stopped completely.

Adjust two knobs by hand.

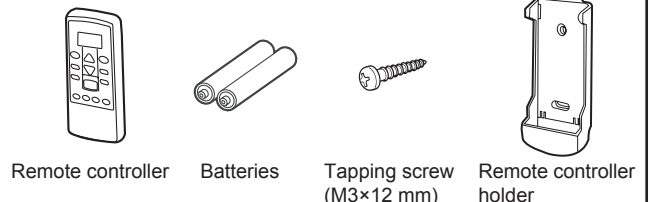


## 11 Air filter

See page 5

Easy-to-care air filters resist mildew growth.

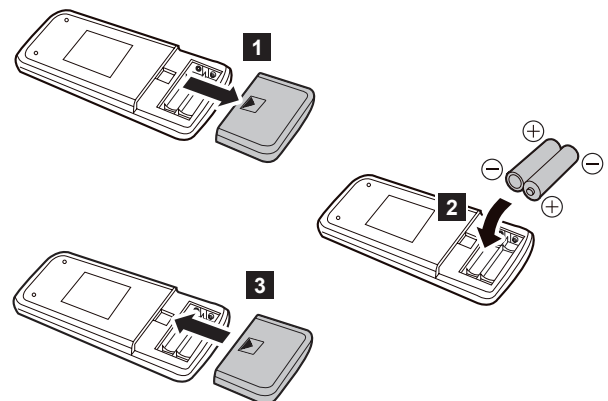
### Indoor unit accessories



### WARNING

- Take care to prevent infants and small children from accidentally swallowing the batteries.

### Battery (AAA/R03/LR03 × 2) loading






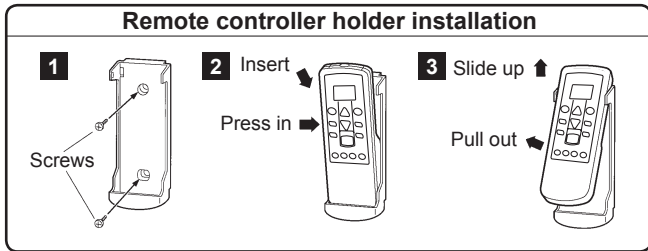
#### Notes:

- Use specified type of battery only.
- Do not use new battery and used battery together.
- Batteries can be used about 1 year in ordinary use.
- If the remote control range noticeably got shorten, replace the batteries, and press RESET button.

# Remote Controller Overview and Operations

## CAUTION

- 
  - To prevent malfunction or damage of the remote controller:
    - Place remote controller at where will not be exposed to direct sunlight or excessive heat.
    - Remove batteries if the product is not going to be used for an extended period.
    - Exhausted batteries must be removed immediately, and be disposed according to the local laws and regulations of your region.
- 
  - If leaking battery fluid comes in contact with your skin, eyes, or mouth, immediately rinse with plenty of clean water, and consult your physician.
  - Obstacles such as a curtain or wall between the remote controller and the indoor unit may affect the appropriate signal transmission.
- 
  - Do not apply strong shocks to the remote controller.
  - Do not pour water on the remote controller.
  - Do not attempt to recharge dry batteries.



You can quickly start the operation with following 3 steps:

### 1 START/STOP button

### 2 MODE button

Switches operation mode in following order.



#### Notes in HEAT mode:

- At the beginning of the operation, the indoor unit operates at very low fan speed for about 3–5 minutes for preparation, and then switches to the selected fan speed.
- Automatic defrosting operation overrides the heating operation when it is necessary.

### 3 SET TEMP. (temperature) buttons

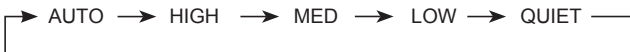
Set desired temperature.

Temperature setting range	
AUTO	64–88 °F (18–30 °C)
COOL/DRY	64–88 °F (18–30 °C)
HEAT	60–88 °F (16–30 °C)

\*:Temperature control is not available in FAN mode.

### 4 FAN button

Controls the fan speed.



- When AUTO is selected, the fan speed is automatically adjusted according to the operation mode.

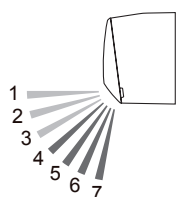
### 5 SET button

Adjusts the vertical airflow direction.

### 6 SWING button

Starts or stops automatic swing of the vertical airflow direction louver.

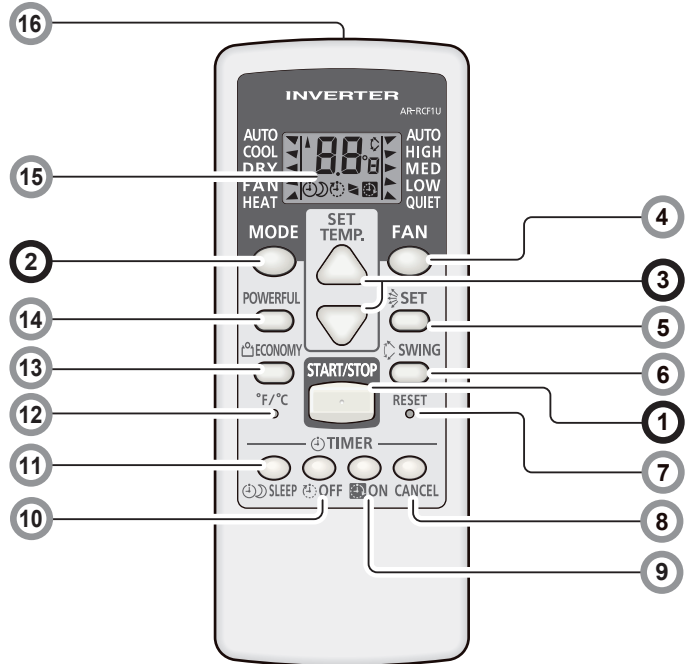
- Each time you press the button, the vertical airflow direction louver swings as follows:



COOL or DRY mode	HEAT mode
1 ↔ 2 ↔ 3 ↔ 4	4 ↔ 5 ↔ 6 ↔ 7

#### Note:

SWING operation may stop temporarily when the fan in the unit is rotating at very low speed or stopping.



### 7 RESET button

When you press the RESET button, press it gently by using the tip of a ballpoint pen or other small object in correct direction as shown in this figure.

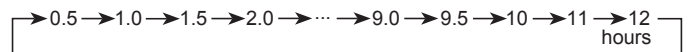



### 8 TIMER CANCEL button

Cancels the set timer.

### 9 ON TIMER button

Each time you press the button, the time changes as follows:




- Set the time while the  indicator on the remote controller display is blinking.

### 10 OFF TIMER button

Each time you press the button, the time changes as follows:



- Set the time while the  indicator on the remote controller display is blinking.



\*: The setting must be done within about 3 seconds during the indicator stays solid.  
 †: The button is controllable only when the air conditioner is on.

(continued)

# Remote Controller Overview and Operations

## Program timer (combined use of the ON timer and the OFF timer)

You can set an integrated ON-OFF or OFF-ON timer as follows:

	<p>ON-OFF Set the ON timer first. Then set the OFF timer by the air conditioner starts operation controlled with the ON timer earlier set.</p>
	<p>OFF-ON Set the OFF timer first. Then set the ON timer by the air conditioner stops operation controlled with the OFF timer earlier set.</p>

The timer that is set later starts counting down after the counting down of the preceding timer is finished.


### Note:

If you change the setting value for the timer after the program timer is set, the counting down of the timer will be reset at that moment.

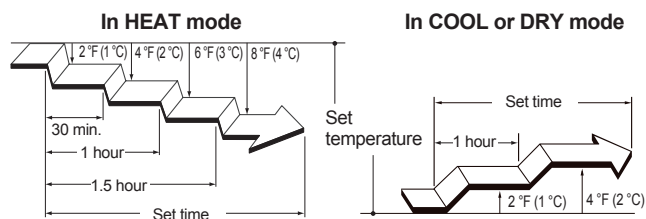
## 11 SLEEP TIMER button \*

Each time you press the button, the time changes as follows:



- Set the time while the  indicator on the remote controller display is blinking.  
To repeat the timer, press the button when the indicator is not displayed.

To help you to fall asleep comfortably and prevent excessive warming or cooling in sleep, the SLEEP timer controls the temperature setting automatically in accordance with the set time shown as follows. The air conditioner completely turns off after the set time has elapsed.



### Note for TIMER settings:

Any interruption of the power supply, such as a blackout or cutting off of a circuit breaker, makes the set internal clock go wrong. In such a case, the TIMER indicator on the indoor unit blinks, and you need to readjust the setting.

## 12 °F/°C button \*

- Used for changing the temperature unit. (Initial setting: °F)
- When you press this button, the displayed temperature unit switches to "°C", and returns to "°F" when you press it again.
- When you press this button, press it gently by using the tip of a ballpoint pen or other small object in correct direction as shown in this figure.



## 13 ECONOMY button \*

Starts or stops ECONOMY operation that saves more electricity consumption than the other operations with a conservative adjustment of the room temperature.

When you press the button, the ECONOMY indicator on the indoor unit turns on.

- In COOL mode, the room temperature will be adjusted at a few degree higher than the defined temperature.  
In HEAT mode, the room temperature will be adjusted at a few degree lower than the defined temperature.
- Especially in COOL mode, you can have improved dehumidification without significantly lowering the room temperature.

### Notes:

- In COOL or HEAT mode, the maximum output of this operation is approximately 70 % of usual air conditioning operation.
- This operation cannot be performed during temperature monitoring by AUTO mode.

## 14 POWERFUL button \*

Starts POWERFUL operation that enables quick cooling down or warming up of the room.  
When you press the button to start the POWERFUL operation, the indoor unit emits 3 short beeps.

POWERFUL operation is automatically turned off in the following situations:

- Adjusted room temperature reached to the defined temperature in temperature setting in COOL, DRY, or HEAT mode.
- 20 minutes have passed after finishing the POWERFUL operation mode setting.

It is not turned off automatically during setting of the POWERFUL operation.

### Notes:

- The airflow direction and the fan speed are controlled automatically.
- This operation cannot be performed simultaneously with ECONOMY operation.


To return to normal operation, press the button again. Then the indoor unit emits 2 short beeps.

## 15 Remote controller display

In this section, all the possible indicators are displayed for description. In actual operation, the display is linked with the button operation, and only shows the necessary indicators for each setting.

## 16 Signal transmitter

Aim to signal receiver of the indoor unit properly.

- Signal transmit indicator  on the remote controller display shows that signal from the remote controller is being transmitted.
- Operating range is approximately 7 m.
- You will hear a beep if the transmitted signal has been sent properly. If there is no beep, press the button on the remote controller again.

### Automatic defrosting operation

When outdoor temperature is very low with high humidity, frost may form on the outdoor unit during the heating operation, and it could reduce the operating performance of the product.

For frost protection, a microcomputer-controlled automatic defrost function is equipped in this air conditioner.

If frost forms, the air conditioner will temporarily stop, and defrost circuit will operate briefly (maximum of 15 minutes.) OPERATION indicator on the indoor unit blinks during this operation.

If frost forms on the outdoor unit after the heating operation, the outdoor unit will stop automatically after it operates for a few minutes. Then the automatic defrosting operation starts.

### Auto-restart function

In event of power interruption such as a blackout, the air conditioner stops once. But it restarts automatically and performs previous operation when the power supply is resumed.

If any power interruption occurs after the timer is set, counting down of the timer will be reset.

After the power supply is resumed, the TIMER indicator on the indoor unit blinks to notify you that there has been a timer fault. In such a case, reset the timer for your opportune time.

### Malfunctions caused by other electrical devices:

Use of other electrical appliances such as an electric shaver or nearby use of a wireless radio transmitter may cause the malfunction of the air conditioner.

If you encounter such a malfunction, turn off the circuit breaker once. Then turn it on again, and resume operation by using the remote controller.



## Care and Cleaning

### CAUTION

- ❗ Before cleaning the indoor unit, be sure to turn it off and all the power supply has been disconnected.
- ❗ Before starting operation, make sure that the intake grille has been shut completely. Incomplete closing of the intake grille might have an effect on the proper working or performance of the air conditioner.
- ⊘ Do not touch the aluminum fins of heat exchanger built-in the indoor unit to avoid personal injury when you maintain the unit.
- ⊘ Do not expose the indoor unit to liquid insecticides or hair sprays.

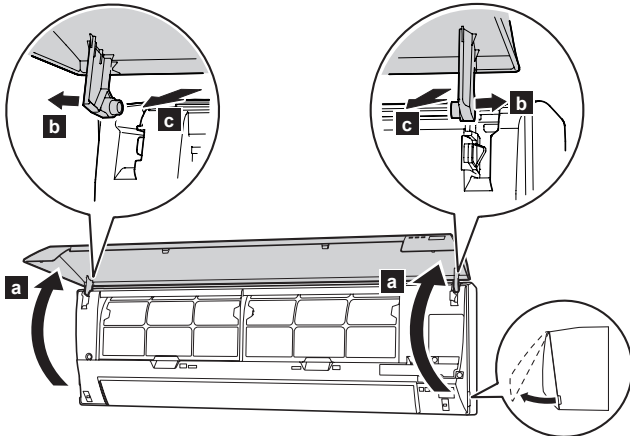
### Daily care

When cleaning the indoor unit body, mind the following:

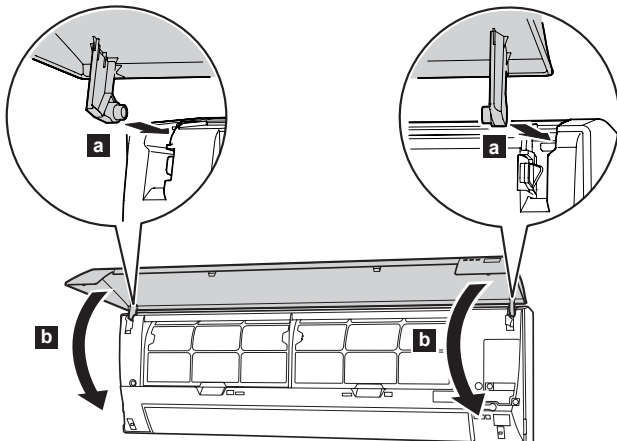
- Do not use water hotter than 108 °F (40 °C).
- Do not use scouring cleanser, volatile solvents such as benzene or thinner.
- Wipe the unit gently by using soft cloth.

### Cleaning the intake grille

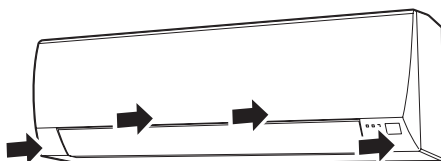
- 1 Open the intake grille in direction of the arrow **a**. While gently pressing the left and right mounting shafts of the intake grille outward **b**, remove the intake grille in direction of the arrow **c**.



- 2 Wash the intake grille gently with water or wipe it gently with a soft cloth moisten with warm water. Then wipe it with a dry and soft cloth.
- 3 While holding the grille horizontal, set the left and right mounting shafts into the pillow blocks at the top of the panel **a**. To latch each shaft properly, insert the shaft until it snaps. Then close the intake grille **b**.



- 4 Press 4 places on the intake grille to close it completely.



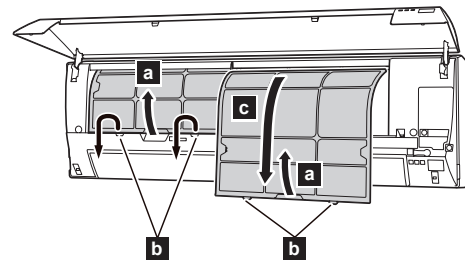
### Cleaning the air filters

Mind that you have a periodical cleaning of the air filters to prevent reducing the operation efficiency of the product.

Using of clogged air filter with dust will lower the product performance, and may cause airflow reduction or increase of operating noise.

Clean the air filters once every 2 weeks under normal use.

- 1 Pull up the handle **a** of the filter in direction of the arrow and release the 2 claws **b**. Then pull the filter out with gently sliding it downward **c**.



- 2 Remove dust by using a vacuum cleaner or by washing the filter. When you wash the filter, use neutral household detergent and warm water. After rinse the filter well, dry it thoroughly in a shaded place before you reinstall it.
- 3 Attach the air filter with aligning both side of the filter with the panel, and push in the filter fully.

#### Note:

Make sure that 2 claws are firmly snapped to the guide holes on the panel.

### After extended non-use of the unit

If you have shut down the indoor unit for 1 month or more, perform the FAN operation for half a day to dry the internal parts thoroughly before you perform normal operation.

### Additional inspection

After long period of use, accumulated dust inside the indoor unit may reduce the product performance even if you have maintained the unit with instructed daily care or cleaning procedures written in this manual. In such a case, the product inspection is recommended.

For more information, consult authorized service personnel.

# Troubleshooting

## ⚠ WARNING

**!** In the event of a malfunction such as burning smell, immediately stop operation of the air conditioner, and disconnect all the power supply by turning off the electrical breaker or disconnecting the power plug. Then consult authorized service personnel.  
As long as the unit is connected to the power supply, it is not insulated from the power supply even if the unit is turned off.

Following symptoms do not indicate the product malfunction, but they are normal functions or characteristics of this product.

Symptom	Cause	See page
Operation is delayed after restart.	To prevent blowout of the fuse, the compressor will not operate during the protection circuit is working for about 3 minutes after sudden OFF→ON operation of the power supply.	–
Noise is heard.	<ul style="list-style-type: none"> <li>During the operation or immediately after stopping the air conditioner, refrigerant flowing sound may be heard. And it is particularly noticeable for 2–3 minutes after starting operation.</li> <li>During the operation, a slight squeaking sound produced by the minute expansion and contraction of the front panel caused by temperature change may be heard.</li> </ul>	–
	During heating operation, a sizzling sound produced by the automatic defrosting operation may be heard.	4
Smell coming from the unit.	Absorbed room smell generated from interior textile, furniture, or cigarette smoke into the air conditioner may be emitted.	–
Mist or steam is emitted from the unit.	In COOL or DRY mode, a thin mist generated by condensation formed with sudden cooling process may be emitted.	–
	During heating operation, the fan built-in the outdoor unit may stops and rising steam generated by the automatic defrosting operation may be seen.	4
Airflow is weak or stops.	<ul style="list-style-type: none"> <li>Immediately after the heating operation is started, the fan speed stays temporarily very low to warm up the internal parts of the unit.</li> <li>In HEAT mode, the outdoor unit stops and the indoor unit operates at very low fan speed if the room temperature rises above the set temperature.</li> </ul>	–
	In HEAT mode, the indoor unit temporarily stops for maximum of 15 minutes to perform the automatic defrosting operation while the OPERATION indicator is flashing.	4
	In DRY mode, the indoor unit operates at low fan speed to adjust the room humidity, and may stop from time to time.	–
	When the fan speed is set to “QUIET”, the fan rotates at very low speed and the airflow is reduced.	–
	When monitoring operation is performed in AUTO mode, the fan rotates at very low speed.	–
Outdoor unit emits water.	During heating operation, the outdoor unit may emit water generated by the automatic defrosting operation.	–

Before you call for or request servicing, troubleshoot a problem by performing following checks:

Symptom	Diagnostic	See page
Does not operate at all.	<input type="checkbox"/> Has the circuit breaker been turned off? <input type="checkbox"/> Has there been a power outage? <input type="checkbox"/> Has a fuse blown out or the circuit breaker been tripped?	–
	<input type="checkbox"/> Is the timer operating?	3, 4
Poor cooling or heating performance.	<input type="checkbox"/> Is the air filter dirty?	5
	<input type="checkbox"/> Is the intake grill or outlet port of indoor unit blocked?	–
	<input type="checkbox"/> Is the room temperature adjusted appropriately?	3
	<input type="checkbox"/> Is a window or door left opened? <input type="checkbox"/> Is direct or strong sunlight shinning into the room in cooling operation? <input type="checkbox"/> Are there other heating apparatus or computers operating, or too many people in the room in cooling operation?	–
	<input type="checkbox"/> Is the fan speed set to “QUIET”?	3
The unit operates differently from the remote controller setting.	<input type="checkbox"/> Are the batteries used in the remote controller exhausted? <input type="checkbox"/> Are the batteries used in the remote controller loaded properly?	2

Immediately stop operation and turn off the electrical breaker in following cases. Then consult authorized service personnel.

- The problem persists even if you perform these checks or diagnostics.
- The OPERATION indicator and TIMER indicator blink while the ECONOMY indicator is blinking fast.

## Operating Range

	COOL/DRY mode	HEAT mode
<b>Outdoor temperature</b>	15 to 115 °F (-10 to 46 °C)	15 to 75 °F (-10 to 24 °C)
<b>Indoor temperature</b>	64 to 90 °F (18 to 32 °C)	60 to 88 °F (16 to 30 °C)
<b>Indoor humidity</b>	80 % or less	–

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