

AIRSTAGE

FUJITSU

OPERATION MANUAL

AIR CONDITIONER

Duct type

- ARTH24KHTA
- ARTH30KHTA
- ARTH36KHTA
- ARTH45KHTA
- ARTH54KHTA
- ARTH60KHTA

MODEL: ARTH60KHTB

* Check the model name.
(Refer to the rating label.)



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

FUJITSU GENERAL LIMITED



PART No. 9381067299-01

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The warranty card is included with the outdoor unit. It is also available on our website. (www.fujitsugeneral.com.au)


1. SAFETY PRECAUTIONS


To prevent personal injury or property damage, read this section carefully before you use this product, and be sure to comply with the 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.


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


 This mark denotes an action that is PROHIBITED.


 This mark denotes an action that is COMPULSORY.

Explanation of symbols displayed on the indoor unit or outdoor unit.



WARNING
 This symbol shows that this product uses a low burning velocity material. If the refrigerant is leaked and exposed to an external ignition source, there is a risk of fire.

CAUTION
 This symbol shows that the operation manual should be read carefully.

CAUTION
 This symbol shows that a service personnel should be handling this equipment with reference to the installation manual.

CAUTION
 This symbol shows that information is available such as the operation manual or installation manual.

WARNING

-  • When installing this product to an unventilated area, pay attention to prevent fire and explosion caused by the stagnated gas in case of refrigerant leakage. (For products which contain more than 1.842 kg refrigerant.)
 - Auxiliary devices which may be a potential ignition source shall not be installed in the duct work. Examples of such potential ignition sources are hot surfaces with a temperature exceeding 700 °C and electric switching devices.
 - This product 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 be replaced only by the authorized service personnel in order to avoid a hazard.
 - If a refrigerant leakage is suspected, all naked flames shall be removed or extinguished, and consult authorized service personnel.
 - In the event of a thunder storm or any prior sign of a lightning strike, turn off the air conditioner via the remote controller, and refrain from touching the product or the power source to prevent any electrical hazards.
 - This product shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
 - This product shall be stored in a well-ventilated area.
 - Be aware that refrigerants may not contain an odour.
 - This product shall be stored so as to prevent mechanical damage from occurring.
 - Disposing of the product shall be done properly, in compliance with national or regional regulations.
 - This product 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 this product by a person responsible for their safety. Children should be supervised to ensure that they do not play with this product.
-  • Do not move this product by holding the indoor unit pipes. (The stress applied to the pipe joints may cause the flammable gas to leak during operation).
 - Do not start or stop the operation of this product by turning on or off the circuit breaker.
 - Do not use flammable gases near this product.
 - Do not expose yourself directly to the cooling airflow for many hours.
 - Do not insert your fingers or any other objects into the outlet port or inlet grille.

WARNING

- Do not operate with wet hands.
- Do not use means to accelerate the defrosting process or to clean this product, other than those instructed in this manual.
- Do not pierce or burn.

CAUTION

- Provide occasional ventilation during use.
- Ensure that any electronic equipment is at least 1 m (40 in) away from this product.
- Disconnect all the power supply when not using this product for extended periods.
- After a long period of use, ensure to get the mounting of the indoor unit checked to prevent this product 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.
- Keep the surroundings of the outdoor unit clean and tidy, and do not place items around it. Any objects blocking or entering from the outlet ports may cause product malfunction.
- Do not direct the airflow at fireplaces or heating appliances.
- 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 this product.
- Do not place any other electrical products or household belongings under this product. Dripping condensation from this product might get them wet, and may cause damage or malfunction of your property.
- Do not expose this product 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 touch the aluminum fins of the heat exchanger built-in this product to avoid personal injury when you install or maintain the unit.
- Do not stand on unstable steps when operating or cleaning this product. It may overturn and can cause injury.

2. BASIC OPERATIONS

NOTE: For detailed instructions on how to operate, refer to the operation manual of the remote controller.

The operation mode and the temperature setting range are shown in the following table.

Operation mode		Temperature setting range
Custom Auto	Cooling	18.0 - 30.0 °C
	Heating	16.0 - 30.0 °C
Auto (single setpoint)/Cooling/Dry		18.0 - 30.0 °C
Fan		You cannot set the temperature.
Heating		16.0 - 30.0 °C

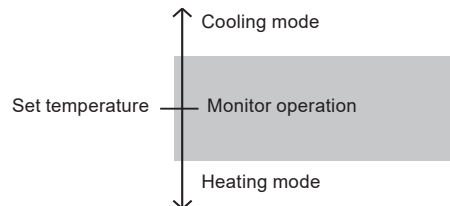
Auto mode

Auto (single setpoint)

NOTE: Depending on the remote controller, this function may not be available.

The air conditioner selects the appropriate operation mode (Cooling or Heating) according to your room's present temperature.

Room temperature	Operation
Higher than the setting temperature	Cooling
Close to the setting temperature	Monitor operation
Lower than the setting temperature	Heating



When Auto mode is first selected, the fan will operate at a low speed for about a few minutes, during which time the indoor unit detects the room conditions and selects the operation mode.

When the air conditioner has adjusted your room's temperature to near the thermostat setting, it will begin monitor operation.

In the monitor operation mode, the fan will operate at a low speed. If the room temperature subsequently changes, the air conditioner will once again select the appropriate operation (Heating, Cooling) to adjust the temperature to the value set in the thermostat.

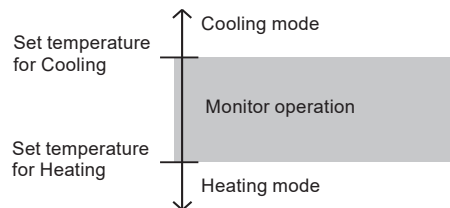
If the mode automatically selected by the unit is not what you wish, select one of the mode operations (Heating, Cooling).

Custom Auto

NOTE: Depending on the remote controller, this function may not be available.

Set both the cooling and heating temperatures. During the Custom Auto mode operation, when the room temperature exceeds the set temperature for cooling, the cooling operation is performed, and when the room temperature falls below the set temperature for heating, the heating operation is performed. (Consult authorized service personnel in order to use this function.)

Room temperature	Operation
Higher than the setting temperature for Cooling	Cooling
Between cooling and heating temperature settings	Monitor operation
Lower than the setting temperature for Heating	Heating



When Custom Auto mode is first selected, the fan will operate at a low speed for a few minutes. During this time, the indoor unit detects the room conditions to select the operation mode. When the room's temperature reaches between the cooling and heating temperature settings, the monitor operation begins. In the monitor operation mode, the fan will operate at a low speed. If the mode automatically selected by the unit is not what you wish, select one of the mode operations (Heating, Cooling).

Cooling mode

Use to cool your room.

NOTES:

- Set the temperature lower than the current room temperature, otherwise, the fan alone will operate.
- The indoor unit fan may stop from time to time because of the Fan control for energy saving (refer to page 4).

Dry mode

Use for gently cooling while dehumidifying your room.

NOTES:

- You cannot heat the room.
- Set the temperature lower than the current room temperature, otherwise, the operation will not operate.
- The unit will operate at low speed in order to adjust room humidity. The indoor unit's fan may stop from time to time. Also, the fan may operate at a very low speed when adjusting room humidity.
- The fan speed cannot be changed manually.

Fan mode

Use to circulate the air throughout your room.

NOTE: You cannot set the temperature.

Heating mode

Use to warm your room.

NOTES:

- Set the temperature higher than the current room temperature, otherwise, the operation will not operate.
- At the beginning of the operation, the indoor unit fan rotates at a very low speed for 3-5 minutes to warm the internal indoor unit. After the period, the indoor unit fan will switch to the selected fan speed.
- When the room temperature is very low, frost may form on the outdoor unit, and its performance may be reduced. In order to remove such frost, the unit will automatically enter the defrost cycle from time to time. During Automatic defrosting operation, the Heating operation will be interrupted.
- After the start of the Heating operation, it takes sometime before the room gets warmer.

3. AIRFLOW SETTINGS

NOTE: For detailed instructions on how to operate, refer to the operation manual of the remote controller.

3.1. Fan speed setting

The fan speed can be selected from the followings.

Fan speed	Description
Auto	The fan speed is automatically adjusted according to the operation mode. Cooling : As the room temperature approaches the set temperature, the fan speed becomes lower. Heating : The fan will operate at a very low speed when the temperature of the air issued from the indoor unit is low. Fan : The fan runs at Med speed.
High	The indoor unit fan rotates at a high speed.
Med	The indoor unit fan rotates at a middle speed.
Low	The indoor unit fan rotates at a low speed.
Quiet*	The indoor unit fan rotates at the lowest speed for Quiet operation. <ul style="list-style-type: none">• The Quiet operation cannot be used during the Dry mode. (It includes the Dry mode selected during the Auto mode operation.)• During the Quiet operation, heating and cooling performance will be reduced somewhat. If the room does not warm up/ cool down when using the Super Quiet operation, adjust the indoor unit's fan speed.

*This function is available for ARTH60KHTB.

The fan will operate at a very low setting during monitor operation and at the start of the heating mode.

4. TIMER OPERATIONS

NOTE: For detailed instructions on how to operate, refer to the operation manual of the remote controller.

4.1. On timer or Off timer

The On timer starts the operation at your desired time.
The Off timer stops the operation at your desired time.

4.2. Weekly timer

NOTE: Depending on the remote controller, this function may not be available.

The Weekly timer enables you to set operation schedules for each day of the week.

Use the Day off setting to switch off timed operation for a selected day in the coming week. Because all days can be set together, the weekly timer can be used to repeat the timer settings for all of the days.

Temperature setting range

Auto, Cooling, or	18.0-30.0 °C
Dry mode:	*Even if you set to 16.0 to 17.5 °C, the air conditioner will run at 18.0 °C.
Heating mode:	16.0 to 30.0 °C

4.3. Program timer

NOTE: This function is available only when using the wireless remote controller.

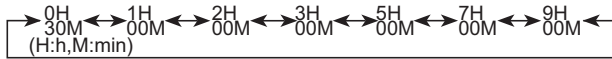
The Program timer operates as the combination of the On timer and Off timer. You can set the Program timer only within a span of 24 hours.

4.4. Sleep timer

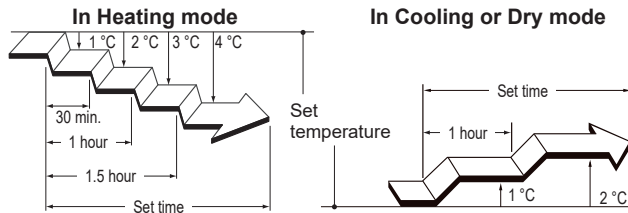
NOTE: This function is available only when using the wireless remote controller.

The Sleep timer supports your comfortable sleep by moderating the air conditioner operation gradually.

The time setting of the Sleep timer changes as follows:



During the Sleep timer operation, the setting temperature changes as the following figure.



After the set time has elapsed, the air conditioner operation turns off.

5. ENERGY SAVING OPERATIONS

NOTE: For detailed instructions on how to operate, refer to the operation manual of the remote controller.

5.1. Economy operation

NOTE: Depending on the remote controller, this function may not be available.

It saves more electricity than other operation modes by changing the set temperature to a moderate setting.

Operation mode	Setting details
Cooling/Dry	The room temperature will be few degrees higher than the set temperature
Heating	The room temperature will be few degrees lower than the set temperature

NOTES:

- In the Cooling, Heating, or Dry mode, the maximum output of this operation is approximately 70% of the usual operation. If the room is not cooled or heated well during the Economy operation, select normal operation.
- This operation cannot be performed during the temperature monitoring by the Auto mode.

5.2. Fan control for energy saving

NOTE: Depending on the remote controller, this function may not be available.

In the Cooling or Dry operation, when the room temperature reaches the set temperature, the indoor unit fan rotates intermittently to save power.

This function is deactivated at the time of purchase.

To change the setting, refer to the operation manual of the remote controller.

Even if the setting is changed, if the fan speed is set to Auto in Cooling or Dry mode, this function still works to suppress the diffusion of circulated indoor humidity.

5.3. Demand Response

This product is designed to be compatible with Air Conditioning Demand Response program.

To utilize the function, you need a separate arrangement with your electricity supplier. Check availability in the place of use.

When your electricity supplier activates one of the following 3 Demand Response (DR) modes, the air conditioner switches over to the appropriate operation.

When the DR mode finishes, the air conditioner returns to the operation set before entering the DR mode.

Details on Demand Response mode

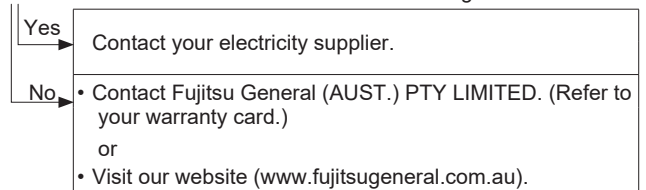
DR mode	Description of operation in this mode
DR mode 1	Compressor off.
DR mode 2	electrical energy consumption in 30 minutes: 50 % or less (compared with rated energy consumption)
DR mode 3	electrical energy consumption in 30 minutes: 75 % or less (compared with rated energy consumption)

NOTES:

- During the DR mode, the cooling or heating performance may be reduced.
- During the DR mode, only the following operations are valid.
 - Turning off the operation by the remote controller
 - Off timer operation
- During the DR mode, the Filter sign will not display.
- Timer setting error indicator will be prioritized over the DR mode indicator.

If you have operational issues:

- Contact your electricity supplier to check whether they are activating the DR mode.
- Is the air conditioner under the Demand controlling?



6. CLEANING AND CARE

CAUTION

- Before cleaning the indoor unit, be sure to turn it off and disconnect all the power supply.
- The fan operates at high speed inside the unit and could result in personal injury.
- If the filter cleaning involves high-place work, consult the professional technical service personnel.
- Do not expose the indoor unit to liquid insecticides or hair sprays.
- Do not stand on slippery, uneven, or unstable surfaces when you maintain the unit.

When cleaning the unit, do not use water hotter than 40 °C, harsh abrasive cleansers, or volatile agents like benzene or thinner.

Cleaning air filter (optional)

NOTES:

- The air filters are optional parts. When purchasing, contact the store where you purchased this air conditioner.
- Compatible the air filters differ depending on the model. For details, refer to the table below.

model name of indoor unit	model name of the air filter
ARTH24KHTA ARTH30KHTA ARTH36KHTA	UTD-LF60KA
ARTH45KHTA ARTH54KHTA ARTH60KHTA	— (Not available)
ARTH60KHTB	UTD-LFKA

- For how to install and remove the air filter, refer to the instruction sheet of the air filter.

- Dust can be cleaned from the air filter either with a vacuum cleaner, or by washing the air filter in a solution of mild detergent and warm water.
- If you wash the air filter, be sure to allow it to dry thoroughly in a shady place before reinstalling.
- If dirt is allowed to accumulate on the air filter, airflow will be reduced, lowering operating efficiency and increasing noise.

After extended non-use of the unit

If you do not use this product for 1 month or more, perform the Fan mode operation for half a day to dry the internal parts thoroughly before the normal operation.

Additional inspection

After a 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, a product inspection is recommended.

For more information, consult authorized service personnel.

Filter indicator reset (Special setting)

This function can be used if set correctly during installation. Consult authorized service personnel in order to use this function.

1. Clean the air filter when the filter indicator appears.
2. After cleaning, reset the filter indicator.

* For detailed instructions on how to operate, refer to the operation manual of the remote controller.

7. GENERAL INFORMATION

Inverter

On start-up, the air conditioner will operate at maximum capacity to bring the room quickly down to the desired temperature.

Once the temperature in the room begins to achieve the set temperature, the air conditioner will reduce its capacity and energy usage to the minimum capacity and input ratings.

Heating performance

This air conditioner operates on the heat pump principle, absorbing heat from the air outdoors and transferring that heat to the indoor unit. As a result, the operating performance is reduced as outdoor air temperature drops.

If you feel that the heating performance is insufficient, we recommend you to use this air conditioner in conjunction with other kinds of heating appliance.

Consult with your installation technician to ensure the unit is correctly sized for the room space required.

Heat pump air conditioners heat your entire room by recirculating air throughout the room, with the result that some time may be required after first starting the air conditioner until the room is heated.

Automatic defrosting operation

When the 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, an automatic defrosting 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.)

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.

If you set to the Heating operation during the automatic defrosting operation, the automatic defrosting operation will continue. The Heating operation will begin after the completion of defrosting. As a result, it may take some time before warm air is emitted.

Hot start

The indoor unit prevents cold drafts when the Heating operation begins.

The indoor unit fan will not operate or it will operate at a very low speed until the heat exchanger reaches the set temperature.

Auto-restart function

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

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, disconnect the power supply once. Then reconnect it, and resume operation with the remote controller.

Temperature and humidity range

Permissible ranges of temperature and humidity are as follows:

Cooling/Dry mode	Outdoor temperature* ¹⁾	[°C]	-10 to 50
	Indoor temperature	[°C]	18 to 32
	Indoor humidity	[%]	80 or less * ²⁾
Heating mode	Outdoor temperature* ¹⁾	[°C]	-15 to 24
	Indoor temperature	[°C]	16 to 30

*1) Suction temperature of the outdoor unit.

*2) If the air conditioner is used continuously for many hours, water may condense on the surface and drip.

- If the unit is operated under conditions except for the permissible temperature range, the air conditioner operation may stop because of the automatic protection circuit working.
- Depending on the operating conditions, the heat exchanger may freeze, causing water leakage or other malfunction. (in the Cooling or Dry mode).

When indoor and outdoor temperatures are high

When both indoor and outdoor temperatures are high during the use of the Heating mode, the outdoor unit's fan may stop at times.

Low ambient cooling

When the outdoor temperature drops, the outdoor unit's fans may switch to low speed, or one of the fans may stop intermittently.

Other information

- Do not use the air conditioner for any purpose other than the room cooling/dry, room heating, or fan.
- During the Heating mode, the top of the indoor unit may become warm, but this is due to the fact that the refrigerant is circulated through the indoor unit even when it is stopped; it is not a malfunction.

8. OPTIONAL PARTS

8.1. Remote control

You can select from the following types of remote control.

- Wireless remote controller
- Wired remote controller

To check the available model of remote controller, consult authorized service personnel.

NOTE: Depending on the remote controller, some functions may be restricted. Refer to the operation manual of the remote controller for details.

You can use both wireless and wired remote controller together.

However, some functions of the wireless remote controller may be restricted.

8.2 Multiple remote controller

You can connect two wired remote controllers to one air conditioner. Either remote controller can control the air conditioner. However, the timer functions cannot be used by the secondary unit.

8.3. Group control

One wired remote controller can control up to 16 air conditioners. All of the air conditioners will be operated with the same settings.

9. TROUBLESHOOTING



WARNING



In following events, 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 your dealer or 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.

- Unit smells of something burning or emits smoke
- Water leaks from the unit

Does not operate at all.

- Has there been a power outage?
In this case, the unit restarts automatically after the power supply is resumed. (Refer to **page 5**.)
- Has the circuit breaker been turned off?
⇒ Turn on the circuit breaker.
- Has a fuse blown out or the circuit breaker been tripped?
⇒ Replace the fuse or reset the circuit breaker.
- Is the timer operating?
⇒ To check or deactivate the timer setting, Refer to the operation manual of the remote controller.

Poor cooling or heating performance.

- Is the unit operating under the conditions except for the permissible temperature range?
In this case, the air conditioner may stop because of the automatic protection circuit working.
- Do you have an arrangement with your electric company for Demand Response?
In this case, the air conditioning performance may become lower or the operation may stop. (Refer to **page 4**.)
- Are the optional air filters dirty?
⇒ Clean the air filter. (Refer to **page 4**.)
- Is the intake grille or outlet port of indoor unit blocked?
⇒ Remove the obstructions.
- Is the room temperature adjusted appropriately?
⇒ To change the set temperature, refer to the operation manual of the remote controller.
- Is a window or door left opened?
⇒ Close the window or the door.
- Is the fan speed set to Quiet?
⇒ To change the fan speed, refer to the operation manual of the remote controller.
- Is the air conditioner in the Economy operation?
⇒ To stop the Economy operation, refer to the operation manual of the remote controller.
- <In the Cooling mode> Is direct or strong sunlight shining into the room?
⇒ Close the curtains.
- <In the Cooling mode> Are there other heating appliances or computers operating, or too many people in the room?
⇒ Turn the heating appliance or computers off, or set the temperature lower.

Airflow is weak or stops.

- Has the Fan control for energy saving set? In this case, the indoor unit fan may stop temporarily during the Cooling operation.
⇒ To cancel the Fan control for energy saving, refer to the operation manual of the remote controller.
* This function cannot be disabled when the fan speed is set to Auto.
- <In the Heating mode> Have you just started the operation? In this case, the fan rotates at a very low speed temporarily to warm up the internal parts of the unit.
- <In the Heating mode> Is the room temperature higher than the set temperature?
In this case, the outdoor unit stops and the indoor unit fan rotates at a very low speed or stop.
- <In the Heating mode> Is the Automatic defrosting operation working? In this case, the indoor unit stops for maximum of 15 minutes. (Refer to **page 5**.)
- <In the Dry mode> The indoor unit operates at low fan speed to adjust the room humidity, and may stop from time to time.
- <In the Auto mode> While the monitoring operation, the fan rotates at a very low speed.

Humidity does not drop.

- <In the Dry operation> If the setting temperature is high, the humidity may not drop.
⇒ To lower the humidity, lower the set temperature.

Noise is heard.

- Is the unit operating, or immediate after stopping operation? In this case, a refrigerant flowing sound may be heard. It may be particularly noticeable for 2-3 minutes after starting operation.
- Do you hear a slight squeaking sound during the operation? This sound is produced by the minute expansion and contraction of the front panel caused by temperature change.
- <In the Heating mode> Do you hear a sizzling sound? This sound is produced by the Automatic defrosting operation. (Refer to **page 5**.)

Smell coming from the unit.

- The air conditioner may absorb various smells generated from interior textile, furniture, or cigarette smoke. These smells may be emitted during the operation.

Mist or steam is emitted from the unit.

- <In the Cooling or Dry mode> A thin mist may be generated by condensation formed with a sudden cooling process.
- <In the Heating mode> Is the Automatic defrosting operation working? In this case, steam may rise from the outdoor unit. (Refer to **page 5**.)

Outdoor unit emits water.

- <In the Heating mode> The outdoor unit may emit water generated by the Automatic defrosting operation. (Refer to **page 5**.)

The unit operates differently from the remote controller setting.

- Do you have an arrangement with your electric company for Demand Response?
In this case, the air conditioning performance may become lower or the operation may stop. (Refer to **page 4**.)

Operation is delayed after restart.

- Has the power supply turned from off to on suddenly? In this case, the compressor will not operate for about 3 minutes to prevent a blowout of the fuse.
- Has the electrical breaker is turned off then on again? In this case, the protection circuit will operate for about 3 minutes.

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

- The problem persists even if you perform these checks or diagnostics.
- Error sign is shown on the wired remote controller display or the indicator lamps on the IR receiver unit.

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