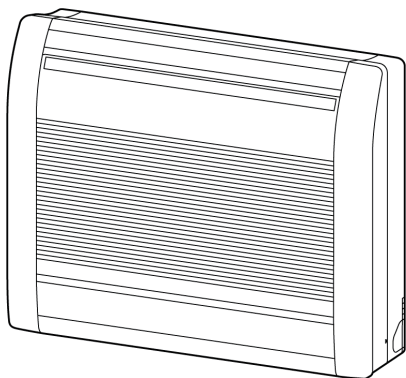


OPERATION MANUAL

AIR CONDITIONER

Floor type



MODEL: (KU Series)

- Write down the model name.(Refer to the rating label.)
- Before using this product, read these instructions thoroughly and keep this manual for future reference.

Contents

1. SAFETY PRECAUTIONS	1
2. PREPARATION.....	2
3. NAME OF PARTS	2
3.1. Indoor unit.....	2
4. BASIC OPERATIONS	2
4.1. Mode setting	2
4.2. Temperature setting	3
4.3. Airflow setting	3
5. OTHER OPERATIONS	4
5.1. Powerful operation.....	4
5.2. Economy operation.....	4
5.3. Outdoor Unit Low Noise operation	4
5.4. Minimum heat operation	4
5.5. LED brightness setting	5
5.6. Timer operations.....	5
6. WLAN control	5
6.1. Usage precautions.....	5
6.2. Setting to use WLAN control	6
7. CLEANING AND CARE	7
8. OPTIONAL PARTS	8
8.1. Remote control	8
8.2. Multiple remote controller	9
8.3. Group control.....	9
8.4. Multi-split type air conditioner	9
9. GENERAL INFORMATION	9
10. TROUBLESHOOTING	9

The original language of this document is English.

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

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 flammable refrigerant. 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



COMPULSORY

- 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 4.05 lbs (1.836 kg) refrigerant.)
- 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 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.
- During transportation or relocation of the indoor unit, pipes shall be covered with the wall hook bracket for protection. 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).



PART No. 9378532175-01

⚠ WARNING

- 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.
- Dispose of the packing materials safely. Tear and dispose of the plastic packing bags so that children cannot play with them. There is danger of suffocation if children play with the original plastic bags.

🚫 PROHIBITED

- 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 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 outlet port or inlet port.
- Do not operate with wet hands.
- Do not use means to accelerate the defrosting process or to clean this product, other than those recommended by the manufacturer.
- Do not pierce or burn.
- Do not splash water over the product, to avoid safety hazards.

⚠ CAUTION

❗ COMPULSORY

- Provide occasional ventilation during use.
- Before cleaning this product, be sure to turn it off and disconnect all the power supply.
- Always operate this product with air filters installed.
- Ensure that any electronic equipment is at least 40 in (1 m) away from this product.
- 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.

🚫 PROHIBITED

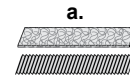
- Do not direct the airflow at fireplaces or heating apparatus.
- Do not block or cover the intake grille and the outlet port.
- Do not apply any heavy pressure to radiator fins.
- Do not climb on or sit, place objects on, or hang objects from this product.
- Do not place any other electrical products 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 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.
- Do not touch the aluminum fins of heat exchanger built-in this product to avoid personal injury when you maintain the unit.
- Do not use flammable substances (such as pesticides and hair sprays). Doing so may cause an electric shock, fire or wrong detection by the refrigerant sensor.
- This product is equipped with a refrigerant leakage sensor. Do not install the product at a location filled with smoke, gases or chemicals.
- Do not turn off the breaker unless the product is under repair, inspection, or cleaning. Otherwise, the sensor is unable to detect refrigerant leak.

This product contains fluorinated greenhouse gases.

2. PREPARATION

Indoor unit accessories

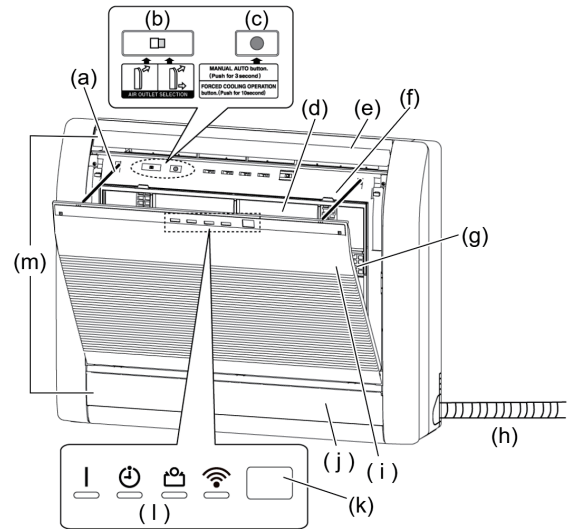
Check that the following accessories are included.



a. Air cleaning filters

3. NAME OF PARTS

3.1. Indoor unit



- (a) Rope
- (b) Air Outlet Selection switch (Refer to [P.4](#))
- (c) For Manual Auto operation and Filter indicator reset (Refer to [P.11](#))
- (d) Air filter
- (e) Airflow Direction Louver
- (f) Front panel
- (g) Air cleaning filter
- (h) Drain hose
- (i) Intake grille
- (j) Damper
- (k) Remote controller signal receiver
- (l) Indicator lamps
- (m) Vertical louver (behind Airflow Direction Louver and Damper)

Before starting operation, make sure that the intake grille is closed completely. Incomplete closing may affect the proper function or performance of the product.

- (j) Damper
- (k) Remote controller signal receiver
- (l) Indicator lamps
- (m) Vertical louver (behind Airflow Direction Louver and Damper)

Indicator lamps light in the following conditions

	Name	Color	Operation or condition
	Operation	Green	Normal operation
🕒	Timer	Orange	Timer operation (*1)
🏠	Economy	Green	Economy operation Minimum heat operation
📶	WLAN	Orange	Wireless LAN control is active.

*1: The lamp lights only when the operation is set from the wireless remote controller.

The brightness of the indicator lamps can be set to two levels. For details on how to set it, refer to [P.5](#).

4. BASIC OPERATIONS

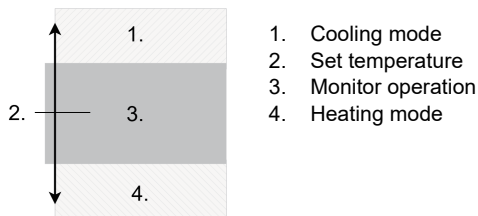
4.1. Mode setting

■ 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.



- 1. Cooling mode
- 2. Set temperature
- 3. Monitor operation
- 4. Heating mode

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.

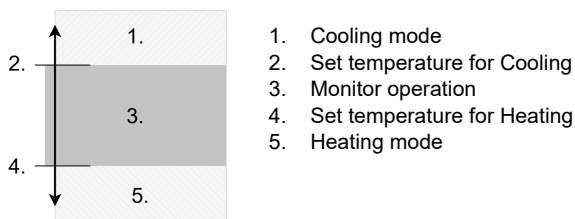
When the air conditioner has adjusted your room's temperature to near the thermostat setting, it will begin monitor operation. In the monitor operation mode, the fan will operate at a low speed. If the room temperature subsequently changes, the air conditioner will once again select the appropriate operation (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**

NOTES :

- Depending on the remote controller, this function may not be available.
- In the Custom Auto mode, the wireless remote controller cannot be used. The instructions from wireless remote controller may not be reflected correctly on the air conditioner.

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.



- 1. Cooling mode
- 2. Set temperature for Cooling
- 3. Monitor operation
- 4. Set temperature for Heating
- 5. Heating 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.

NOTE : Set the temperature lower than the current room temperature. Otherwise, the fan alone will operate.

■ **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 a 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 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 Heating operation, it takes sometime before the room gets warmer.

4.2. Temperature setting

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

Temperature setting range		
Custom Auto	Cooling	65 - 88°F (18.5 - 30.0°C)
Custom Auto	Heating	60 - 83°F (16.0 - 27.5°C)
Auto (single setpoint)/Cooling/Dry		64 - 88°F (18.0 - 30.0°C)
Fan		You cannot set the temperature.
Heating		60 - 88°F (16.0 - 30.0°C)

4.3. Airflow setting

■ **Fan speed setting**

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. • The Quiet operation cannot be used during the Dry mode. • During the Quiet operation, heating and cooling performance will be reduced somewhat. If the room does not warm up/ cool down when using the Quiet operation, adjust the indoor unit's fan speed.

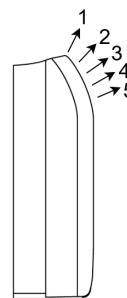
The fan will operate at a very low setting during monitor operation and at the start of the heating mode.

■ **Airflow direction setting**

You can set the following items.

- Up/down airflow direction setting
- Swing operation setting (up/down)
- Left/right airflow direction setting

● **Up/down airflow direction**



Change manually	1 ⇄ 2 ⇄ 3 ⇄ 4 ⇄ 5
Swing operation	1 ↔ 5

NOTES :

- Do not adjust the airflow direction louvers by hand.
- In the Auto or Heating mode, the airflow direction stay position 1 for a while from the start of the operation.

- When indoor unit is embedded in a wall, airflow is fixed to horizontal direction 5.
Ask the service personnel to perform the embedding in a wall.
- When using the mobile app, the up/down airflow can be selected from 4 positions.

● Left/right airflow direction setting

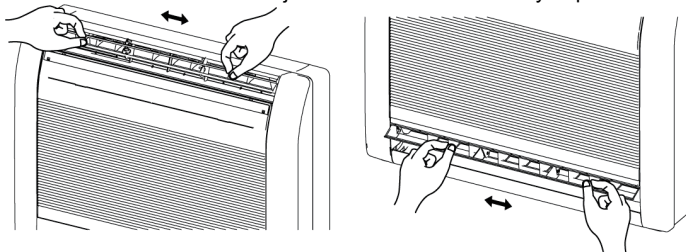
⚠ CAUTION
<p>❗ COMPULSORY</p> <ul style="list-style-type: none"> • Before you adjust the left and right airflow direction, make sure that the up and down airflow direction louver has been stopped completely.

Adjust two knobs by hand.

● Vertical louver Adjustment

Adjust the vertical louver.

Move the vertical louver to adjust airflow in the direction you prefer.



⚠ CAUTION
<p>❗ COMPULSORY</p> <ul style="list-style-type: none"> • Always adjust the vertical louver when the damper is open. Opening the damper forcibly with hands can cause damper to malfunction.

● Air outlet selection

With this function, air come out simultaneously from the upper and lower air outlets so that the room can be cooled or heated effectively. This function is set using the switch behind the front grille of the Indoor unit. (This function is available in cooling and heating operation.)

- How to set to blow out air from the upper and lower air outlets.

Air Outlet Selection switch	
Upper airflow ←	Upper and lower airflow →

NOTE : Set the air outlet selection switch to the end. Otherwise, air outlet cannot be selected as intended.

Description of operation

Operation Mode	Airflow	Conditions
Cooling	Upper and lower airflow	Room temperature and set temperature are different.
Cooling	Upper airflow	Room temperature is close to set temperature, or the air conditioner has operated for 1 hour.
Dry	Upper and lower airflow	-
Heating	Upper and lower airflow	Airflow temperature is high
Heating	Upper airflow	Airflow temperature is low. (During defrosting operation, start of operation, etc.)

5. OTHER OPERATIONS

5.1. Powerful operation

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

In the Powerful operation, the air conditioner will operate at maximum power and strong airflow to cool down or warm up the room quickly.

The Powerful operation will be turned off automatically in the following situations:

- The Powerful operation runs for a certain amount of time and the room temperature reaches the set temperature in the Cooling, Dry, or Heating mode.
- 20 minutes after the Powerful operation has started.

NOTES :

- The airflow direction and the fan speed are controlled automatically.
- The Powerful operation cannot be performed simultaneously with Economy operation.
- The Powerful operation overrides the following operations. If the following operations are set, they will start after the Powerful operation finishes.
 - Outdoor Unit Low Noise operation

5.2. 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	Room temperature
Cooling/Dry	Few degrees higher than the set temperature
Heating	Few degrees lower than the set temperature

During the Economy operation, "E" indicator on the indoor unit will turn on.

NOTES :

- In the Cooling, Heating, or Dry mode, the maximum output of this operation is approximately 70% of usual operation.
- This operation cannot be performed during the temperature monitoring by the Auto mode.
- In the multi-split type air conditioner, the Economy operation mode is only available for the set indoor unit.

■ Fan control for energy saving

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

In the Cooling 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. Outdoor Unit Low Noise operation

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

The Outdoor Unit Low Noise operation lowers noise from the outdoor unit. During this operation, the rotation number of the compressor decreases and the outdoor unit fan rotates slowly.

NOTES :

- In the multi-split connection, this function cannot be used.
- This operation cannot be performed simultaneously with the Fan mode, Dry mode, and Powerful operation.

5.4. Minimum heat operation

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

Minimum heat operation maintains the room temperature at 50.0°F (10.0°C) so as to prevent the room temperature to drop too low.

- When activated, "M" indicator on the indoor unit will turn on.
- When deactivated, "M" indicator will turn off.

NOTES :

- During the Minimum heat operation, only the up/down airflow setting is valid.
- When the room temperature is warm enough, this operation will not be performed.
- In the multi-split type air conditioner, the room temperature will rise higher than 50°F (10°C) if the other indoor units operate at Heating mode. When using the Minimum heat operation, we recommend that setting all indoor units at Minimum heat operation.

5.5. LED brightness setting

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

Reduces the brightness of the indicator lamps on the indoor unit.

5.6. Timer operations

■ 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 operation stop time can be set between 0.5 and 9 hours.

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

■ On timer/Off timer

● On timer or Off timer

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

The On timer starts the operation at your desired time.

The Off timer stops the operation at your desired time.

● 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.

■ 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.

Operation mode	Temperature setting range
Auto/Cooling/Dry	64-88°F (18.0-30.0°C)
Heating	60-88°F (16.0-30.0°C)

6. WLAN control

For how to operate the mobile app, refer to the operation manual of the mobile app.

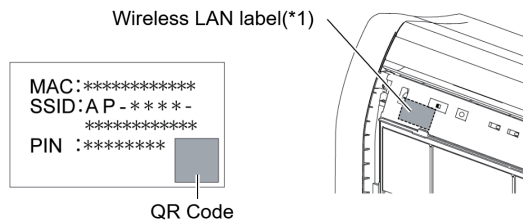
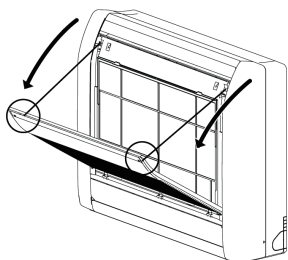
NOTES :

- The air conditioner settings from the mobile app will not be reflected in the wireless remote controller.
- It will not be possible to operate and monitor by the mobile app while the power supply of the air conditioner is disconnected (via breaker or plug).
- The room temperature will be displayed in the mobile app during operation. However, the displayed room temperature may not be correct depending on the situation in the room or the air conditioner operating status. Use this only as a reference.
- If the mobile app and remote controller settings differ, the latest operation performed will take priority.
- If timer settings are done from the mobile app and from the wireless or wired remote controller, both timer settings will be active.

The contents of wireless LAN label are necessary for wireless LAN setup.

Write down the SSID and the PIN code to the following table.

Open the intake grille.



*1: The layout of the wireless LAN label may differ by the part or model.

Information on WLAN device

SSID	
PIN	

Wireless LAN-compatible standard	IEEE 802.11 b/g/n
Frequency bands	2.4GHz (in the U.S. or Canada: 1ch to 11ch) (in the other regions: 1ch to 13ch)
Maximum radio-frequency power	40mW
Wireless LAN security	Open WEP WPA (PSK) WPA2_Personal (PSK) WPS for same-LAN Registration

“AIRSTAGE Mobile” is a trademark of FUJITSU GENERAL LIMITED. Android and Google Play are registered trademarks of Google LLC. App Store is a service mark of Apple Inc., registered in the U.S. and other countries.

IOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license.

“QR Code” is a registered trademark of DENSO WAVE INCORPORATED.

6.1. Usage precautions

■ Usage precautions for wireless LAN control

⚠ WARNING	
⊘ PROHIBITED	<ul style="list-style-type: none"> • Do not repair, disassemble or remodel the WLAN device. • Do not get the WLAN device wet or use it in locations with lots of moisture. • Do not operate with wet hands. • Do not install the WLAN device in locations where the use of wireless equipment is prohibited (e.g., hospitals). • Do not use the WLAN control in a room where young children or people with physical disability are present. • Do not use the WLAN control near persons with a pacemaker or similar devices. • Do not use the WLAN control near automatic control equipment (e.g., automatic doors and fire alarms).

⚠ CAUTION	
⚠ COMPULSORY	<ul style="list-style-type: none"> • When cleaning the air conditioner, be sure to stop the operation and turn off the power. Otherwise, there is a risk of electric shock or injury.

- When you use the WLAN control, it will become possible to operate the air conditioner from locations where you cannot see it directly. This means that people in the room may be exposed to the unintended operation of the air conditioner. Check the condition of the room before using the WLAN control.

- Be sure to check regularly that dust has not built up around the connection slot of the air conditioner for the WLAN device.
- Be sure to check in advance that there are no malfunctions of the air conditioner.
- Make sure that the airflow from the air conditioner will not cause any adverse effects.

Objects may fall down causing personal injury, fire, or damage to property.

- If you know that there are people in the vicinity of the air conditioner, inform them in advance that you will operate it from a distant location.

Sudden operation of the air conditioner may surprise a person and cause the person to fall down or tumble if the person is on a step, ladder, etc. Furthermore, rapid changes of the room temperature may cause deterioration in a person's physical condition. Do not use the WLAN control when there are people in the room who are not able to control the temperature by themselves (For example, infants, children, those with physical disabilities, elderly or sick persons.).

- Fully understand the reserved timer settings and other operations before using the WLAN control.

Unexpected operation of the air conditioner may cause deterioration in a person's physical condition or an adverse effect on animals or plants.

- Frequently check the settings and operating situation of the air conditioner when using the WLAN control from a distant location.



Rapid changes of the room temperature may cause deterioration in a person's physical condition or an adverse effect on animals or plants.

- If you operate the air conditioner by the WLAN control, the reception sounds of the air conditioner do not work.
- If there is bad reception between the WLAN device and the access point, adjusting the access point position or direction of the antenna may improve the reception. It may also be possible to improve reception by moving the access point closer to the WLAN device or using a wireless LAN repeater.

■ Radio wave and security precautions

When you use a wireless LAN, there are precautions that you must follow in relation to radio waves, personal information, and so on. To use the WLAN control correctly, be sure to read the following precautions and the operation manual of the wireless LAN equipment you are using. We will assume no responsibility, unless legal liability is recognized, in regards to failures, other defects and damages incurred by use of the WLAN device that occur through incorrect use or during use by yourself or a third party.

● Radio wave usage precautions

 CAUTION
<p> COMPULSORY</p> <ul style="list-style-type: none"> • Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter. • This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body. (UTY-TFSXH3 [AP-WH3E]/UTY-TFSXH4 [AP-WH4E] model conforms to IC (Industry Canada) standard.)

NOTES :

- This device complies with Part 15 of FCC Rules and Industry Canada license-exempt RSS standard(s).
Operation is subject to the following two conditions:
 - (1) this device may not cause interference, and
 - (2) this device must accept any interference, including interference that may cause undesired operation of this device. (UTY-TFSXH3 [AP-WH3E]/UTY-TFSXH4 [AP-WH4E] model conforms to IC (Industry Canada) standard.)
- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.
- Do not use the WLAN device in the following locations. Using the WLAN device in such locations may cause communications becoming unstable or not possible.
 - Near wireless communication equipment that uses the same frequency band (2.4 GHz) as the WLAN device.
 - In places where there are magnetic fields from equipment such as microwave ovens, or static electricity or radio wave interference occurs.
(Radio waves may not reach depending on the environment.)

● Personal Information (Security-related) Usage Precautions

- There is a possibility of interception if you use wireless LAN equipment due to the use of radio waves regardless of whether you use encryption or not.

- Wireless LAN uses radio waves to exchange information between the WLAN device and the access point. This means it has the advantage of freely being able to make a LAN connection if within reach of radio waves. On the other hand, if the radio waves are within a certain range, they will reach all locations beyond obstacles (e.g., walls). Therefore, it is possible your communications may be intercepted and read or illegally intruded upon.
- Do not connect to equipment and networks which you are not authorized to use when setting up your wireless connection.
- Initialize the settings of the WLAN device when disposing of it or transferring it to a third party.

● Others

- Use the WLAN device as regular wireless LAN equipment.
 - Do not use the WLAN device in hospitals or in/near locations with medical equipment.
 - Do not use the WLAN device within an aircraft.
 - Do not use the WLAN device near electronic equipment that handles high-precision control or weak signals
Examples of electronic equipment to be careful of:
Hearing aids, pacemakers, fire alarms, automatic doors, and other automatic control equipment
- This is not a guarantee of wireless connection and performance with all wireless routers and in all residential environments. Radio waves may not reach or may be interrupted in the following situations.
 - Use in buildings made from concrete, rebars, or metal
 - Installation near obstacles
 - Interference with wireless communication equipment using the same frequency
 - Places where there are magnetic fields from equipment such as microwave ovens, or static electricity or radio wave interference occurs
- Install and setup the WLAN device only after reading the operation manual of the access point.

6.2. Setting to use WLAN control

Step 1. Mobile app installation

- (1) Open "Google Play" or "AppStore" depending on the type of your smartphone.
- (2) Search for "AIRSTAGE Mobile."
- (3) Install the mobile app following the instructions on your screen

NOTE : If you cannot find the application software (mobile app), it is currently not available in your region.

Step 2. User registration

- (1) Open the installed mobile app.
- (2) Register the user by following the instructions of the mobile app.

Step 3. Air conditioner registration (pairing of WLAN device)

NOTES :

- Before starting this setting, wait for 60 seconds or more after the power supply is connected to the air conditioner (via breaker or plug).
- Check that the smartphone is linked to the access point you are connecting to the air conditioner. The setting does not work if it is not connected to the same access point.
- To control 2 or more air conditioners with the same smartphone, repeat the setup of the chosen mode.
 - (1) Tap [Manual Connection].
 - (2) Scan the QR Code on the indoor unit to use the automatic entry of the SSID and the PIN of the WLAN device.
Refer to P.5 for the location of the QR Code.
 - (3) Register the air conditioner by following the instructions of the mobile app.

<How to access the online manual>

- (1) Sign in to the mobile app.
- (2) Tap the Settings tab.
- (3) Tap [Support].
- (4) Tap [Manual].

When the registration is completed,  indicator on the indoor unit will turn on.

■ Initialization (reset)

Initialize (reset) the WLAN device in the following situations:


- Changing the access point
- Disposing of this product
- Transferring this product to a third party

Unregister the air conditioner

Unregister the air conditioner by using the mobile app. (Refer to the operation manual of the mobile app for details.)


Initialization of the WLAN device

Before starting the operation, confirm the following conditions:

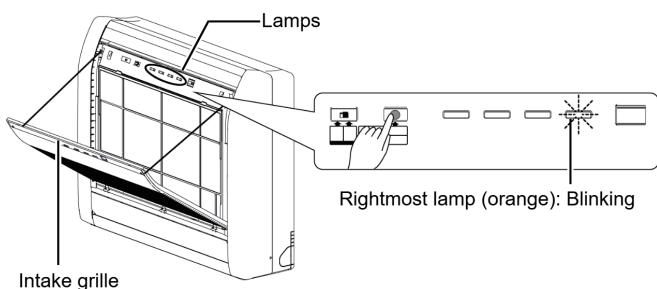
- The air conditioner has been connected to power supply for more than 3 minutes (via breaker or plug).
- The air conditioner has stopped operation.
- The  indicator on the indoor unit is lit.


(1) Open the Intake grille.

Grab both ends marked with PULL and pull towards you.

(2) Press the  button on the indoor unit 3 times.

The rightmost lamp will blink.



(3) While the rightmost lamp is blinking, press and hold the  button on the indoor unit for more than 3 seconds.

When the buzzer sounds and the rightmost lamp turns off, the WLAN device Initialization is completed.

NOTE : If the buzzer does not sound and the rightmost light does not turn off, repeat the procedure from step 2.

(4) Close the intake grille.

To continue use

If you or a third party wishes to continue the use of the WLAN device, follow the procedures in "Air conditioner registration (pairing of WLAN device)" to reconnect to a different access point.

NOTE : WLAN setup is not possible if the previous owner did not un-register or initialize the WLAN device. In this case, contact your authorized service personnel.

■ Firmware update**⚠ CAUTION**

Do not pull out the power plug nor turn off the circuit breaker during the firmware update of the indoor unit or WLAN device. It may cause malfunction.

For WLAN device

The firmware of the WLAN device may be updated automatically. During the updating, you cannot operate the air conditioner from the mobile app. It will take for a maximum of 5 minutes.

For indoor unit

The firmware of the indoor unit may be updated. You can set the schedule of the updating or update the firmware manually from the mobile app. For details, refer to the operation manual for the mobile app.

During the updating, the indicator lamps flash and the air conditioner stops the operation. (Refer to P.10)

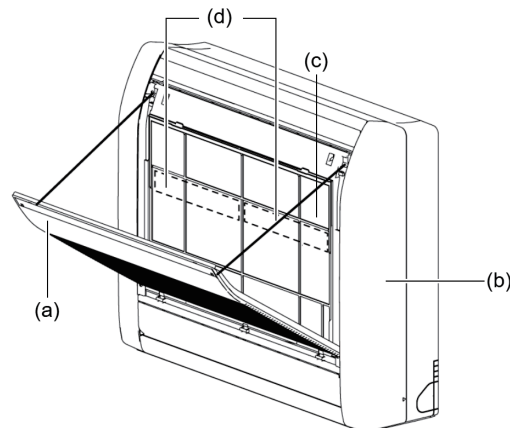
It will take for a maximum of 30 minutes.

⚠ CAUTION

- The fan operates at high speed inside the unit, and could result in personal injury.

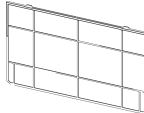

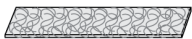
⊘ PROHIBITED

- 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.



The frequency of the cleaning is as shown in the following table.

■ Frequencies at which the components are to be maintained

Name of parts		Frequency	
		Cleaning	Replacing
(a)	Intake grille	When you notice	-
(b)	Indoor unit body	When you notice	-
(c)	Air filter 	Every 2 weeks	-
(d)	Air cleaning filter (*1) • Apple-catechin filter (White) • UTR-FC03-2 	-	Every 3 months
	Air cleaning filter (*1) • Ion deodorization filter (Light blue) • UTR-FC03-3 	Every 3 months	Every 3 years

*1: The air cleaning filters are sold separately. When you replace them, contact the store of purchase.

■ Cleaning indoor unit body**NOTES:**

- Do not use water hotter than 40°C.
- Do not use scouring cleanser, volatile solvents such as benzene or thinner.

- (1) Wipe the indoor unit body gently with a soft cloth moistened with warm water.
- (2) Wipe the indoor unit body gently with a dry and soft cloth.

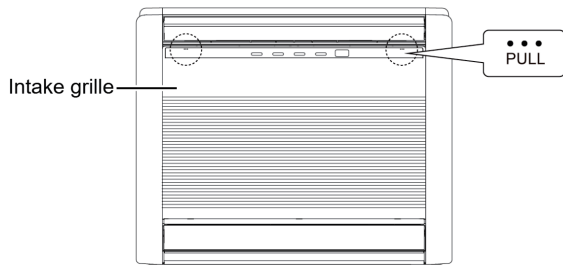
7. CLEANING AND CARE**⚠ CAUTION****! COMPULSORY**

- Before cleaning this product, be sure to turn it off and disconnect all the power supply.
- 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.

■ Cleaning air filter

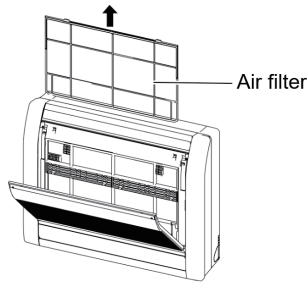
- (1) Open the intake grille.

Grab both ends marked with PULL and pull towards you.



- (2) Remove the air filter.

Lift up the air filter and pull out.

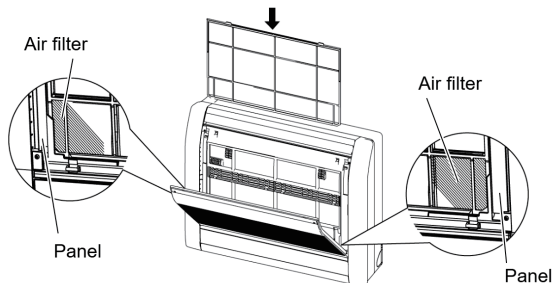


- (3) Remove the dust in the following ways.

1. Clean the air filter with a vacuum cleaner.
2. Wash the air filter with mild detergent and warm water. After washing, dry them thoroughly in shade.

- (4) Reattach the air filters.

Align the sides of the air filter with the panel, and push in fully, making sure the 2 upper tabs are returned properly to their holes in the panel.



- (5) Close the intake grille.

NOTE: Accumulated dust on the air filter reduces the air conditioner's operation efficiency, which may result in lower airflow and louder operation noise.

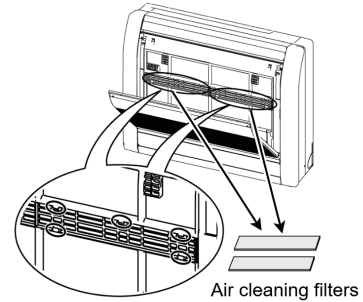
■ Replacing air cleaning filters

NOTES :

- For the frequencies at which the air cleaning filters are to be replaced. (Refer to "Frequencies at which the components are to be maintained")
- Use an air cleaning filter as soon as possible after opening the package. The air cleaning effect decreases when the filters are left in the opened package.

- (1) Remove the air filter from indoor unit body. Refer to steps 1 ~ 2 of "Cleaning air filter".

- (2) Remove the air cleaning filters from the indoor unit.



- (3) Place a new or cleaned air cleaning filter into the indoor unit.

Catch it on 5 places of picks.

(3 places of upper parts and lower part 2 places.)

- (4) Attach the air filter to the indoor unit body and close the intake grille. Refer to steps 4 ~ 5 of "Cleaning air filter".

■ Cleaning Ion deodorization filter

NOTES :

- Do not wash the Apple-catechin filter. (white)
- For how to detach/attach the Ion deodorization filter. (Refer to "Replacing air cleaning filters")

- (1) Wash it with water or lukewarm water.

For heavy soiling, use diluted neutral detergent.

Do not ream or rub, otherwise the deodorizing effect may decrease.

- (2) Rinse the Ion deodorization filter with water flow.

- (3) Dry the Ion deodorization filter in shade.

■ When not using for an extended period

When suspending use of the air conditioner after using the Cooling or Dry mode, perform Fan mode for half a day to dry the internal parts thoroughly. Moisture left inside the indoor unit may cause mold.

■ Additional inspection

After a long period of use, accumulated dust inside the indoor unit may reduce the performance even if you have maintained the unit properly. 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.

Clean the air filter when the indicator lamp shows the following:

Indicator lamp	Blinking pattern
	Blinks 3times, at intervals of 21 seconds

After confirming the following conditions, reset the filter indicator by pushing the button on the indoor unit for 2 seconds or less.

- Cleaning has been completed.
- The air conditioner has been connected to power supply for less than 3 minutes (via breaker or plug).

8. OPTIONAL PARTS

8.1. Remote control

The remote controller is optional. 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 control, some function may be restricted. Refer to the operation manual of the remote controller.

You can use wired and wireless remote controller together.

However, some functions of the wireless remote controller are restricted.

If you set the restricted functions, beeping will be heard, " | ", "⊕", "⊖", and "⊗" indicator on the indoor unit will blink.

You can use wired remote controller and wireless LAN control.

However, some operations from the mobile app are restricted.

8.2. Multiple remote controller

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

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.

You cannot use group control and wireless LAN control together.

8.4. Multi-split type air conditioner

This indoor unit can be connected to a multi-split type outdoor unit. The multi-split type air conditioner allows multiple indoor units to be operated in multiple locations. The indoor units may be operated simultaneously, in accordance with their respective output.

■ Simultaneous Use of Multiple Units

- When using a multi-split type air conditioner, the multiple indoor units can be operated simultaneously, but when 2 or more indoor units of the same group are operated simultaneously, the heating and cooling efficiency will be less than when a single indoor unit is used alone.
- The operation cannot be done in the following different operating modes.

If the indoor unit is instructed to do an operating mode that it cannot perform, “ | ” indicator on the indoor unit blinks (1second on, 1second off), and the unit goes into the standby mode.

- Heating mode and Cooling mode (or Dry mode)
- Heating mode and Fan mode
- The operation can be done in the following different operating modes.
 - Cooling mode and Dry mode
 - Cooling mode and Fan mode
 - Dry mode and Fan mode
- The operating mode (Heating mode or Cooling (Dry) mode) of the outdoor unit will be determined by the operating mode of the indoor unit that was operated first. If the indoor unit was started in the Fan mode, the operating mode of the outdoor unit will not be determined.

For example, if indoor unit (A) was started in the Fan mode and then indoor unit (B) was then operated in the Heating mode, indoor unit (A) would go into standby mode. The indoor unit (B) would continue to operate in the Heating mode.

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

After the power supply is resumed, “⌚” indicator on the indoor unit blinks to notify you that there has been a timer fault. In such a case, re-set the clock and timer settings.

■ 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.

■ Operable conditions of temperature and humidity

Permissible ranges of temperature and humidity are as follows:

Cooling/Dry mode	Indoor temperature	[°F (°C)]	64 to 90 (18 to 32)
Cooling/Dry mode	Indoor humidity	[%]	80 or less (*1)
Heating mode	Indoor temperature	[°F (°C)]	60 to 86 (16 to 30)

- *1: If the air conditioner is used continuously for many hours, water may condense on the surface and drip.
- If the unit is operated under the conditions except 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).

■ Other information

- Do not use the air conditioner for any purpose other than room cooling/dry, room heating or fan.


■ Emergency heat (Special setting)

An auxiliary heater can be used instead of the outdoor unit if the auxiliary heater is connected and the function is set correctly during installation.

Consult authorized service personnel to use this function.

<To activate/deactivate this function>

When using the wired remote controller, follow the operation manual of the wired remote controller.

When not using the wired remote controller, press  button on the indoor unit for 2 seconds or less during the Heating operation.

During the Emergency heat operation, “ | ” indicator lamp will blink (3 seconds on, 1 second off).

9. GENERAL INFORMATION

■ Heating performance

This air conditioner operates on the heat pump principle, absorbing heat from 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.

■ 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.)

“ | ” 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.

10. TROUBLESHOOTING

⚠ WARNING

! COMPULSORY

In the following events, immediately stop the 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 P.9)
- **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 P.5)
- **<When using the wireless LAN control> Is the WLAN adapter in a firmware update?**

Does not operate at all.

During the firmware update of the WLAN adapter, you cannot operate the air conditioner from the mobile app. Operate from the remote controller or wait until the update is complete (for a maximum of 5 minutes).

• <When using the wireless LAN control> Is the indoor unit in a firmware update?

During the firmware update of the indoor unit, the air conditioner stops the operation. Wait until the update is complete. (for a maximum of 30 minutes).

Poor cooling or heating performance.

• Is the unit operating under the conditions except the permissible temperature range?

In this case, the air conditioner may stop because of the automatic protection circuit working.

• Is the air filter dirty?

→ Clean the air filter. (Refer to P.8)

• Is the intake grille or outlet port of indoor unit blocked?

→ Remove the obstructions.

• Is the room temperature adjusted appropriately?

→ To change the temperature setting. (Refer to P.3)

• 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 P.3)

• Has the Outdoor Unit Low Noise operation been set?

To stop the Outdoor Unit Low Noise operation. (Refer to P.4)

• <In the Cooling mode> Is direct or strong sunlight shining into the room?

→ Close the curtains.

• <In the Cooling mode> Are there other heating appliance or computers operating, or too many people in the room?

→ Turn the heating appliance or computers off, or set the temperature lower. (Refer to P.3)

Humidity does not drop during the Dry operation.

- You cannot set the target humidity in the Dry mode. If you feel high humidity, set the temperature lower.

Airflow is weak or stops.

• Is the fan speed set to Quiet?

→ To change the fan speed. (Refer to P.3)

• Has the Fan Control for Energy Saving set? In this case, the indoor unit fan may stop temporarily while the Cooling operation.

→ To cancel the Fan control for energy saving. (Refer to P.4)

• <In the Heating mode> Have you just started the operation?

In this case, the fan rotates at 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 very low speed.

• <In the Heating mode> Is “|” indicator blinking?

In this case, the Automatic defrosting operation is working. The indoor unit stops for a maximum of 15 minutes. (Refer to P.9)

• <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 very low speed.

• <In multi-split connection> Are multiple units set in different operation mode as shown below?

In this case, the units set afterward will stop and “|” indicator will blink.

- Heating mode and other mode

Noise is heard.

• Is the unit operating, or immediate after stopping operation?

In this case, 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 P.9)

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 sudden cooling process.
- <In the Heating mode> Is “|” indicator on the indoor unit blinking?
In this case, steam may rise from the outdoor unit because of the Automatic defrosting operation. (Refer to P.9)


Outdoor unit emits water.

- <In the Heating mode> The outdoor unit may emit water generated by the Automatic defrosting operation. (Refer to P.9)


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.



Does not operate at all

- Is the “” indicator on the indoor unit blinking? (Refer to P.11.)
Refrigerant leakage sensor error and harness disconnection/connection failure may have occurred.
Contact an authorized service personnel.

The product starts to run on its own


- Is the “” indicator on the indoor unit blinking? (Refer to P.11.)
- Refrigerant may have been leaked. Blowing operation is performed to prevent the refrigerant from accumulating.
Open the windows to ventilate the room and contact an authorized service personnel.

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.
- On the indoor unit, “|” and “” blink while “” is blinking fast.






















NOTE : For any troubleshooting related to the WLAN control, refer to the mobile app.










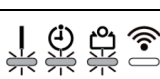







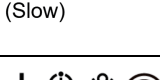

■ State of indicator lamps

: The instruction is relating to the wireless LAN control.


Lighting pattern:

Blinking	   
Lighting	   
Any State	   

State	Causes and solutions
   	Automatic defrosting operation → Wait until finishing the defrosting (maximum of 15 minutes). (Refer to P.9)
    (3 times)	Filter indicator → Clean the air filter and reset the filter sign. (Refer to P.8)
    (Fast)	Error code display → Consult authorized service personnel.
   	Timer setting error because of Auto restart → Reset the clock and timer settings. (Refer to P.9)
   	Test run operation (for authorized personnel only) → Press  button on the indoor unit for more than 10 seconds to quit the test run.

State	Causes and solutions
	Restricted function
	<ul style="list-style-type: none"> •  The power to the access point is not on. → Check that the power to the access point is on. •  There is a possibility that the WLAN device is not properly connected to the access point. → Disconnect the power supply to the air conditioner (via breaker or plug), and then re-connect. (Refer to P.6)
	<ul style="list-style-type: none"> •  The firmware of the WLAN device is being updated. You cannot operate the air conditioner from the mobile app. Operate from the remote controller or wait until the update is complete (for a maximum of 5 minutes). (Refer to P.7) • During the air conditioner registration (pairing of WLAN device) (Refer to P.6)
	 The indoor unit is preparing the firmware update. You cannot operate the air conditioner. Wait until the update is complete (for a maximum of 30 minutes). (Refer to P.7)
 or 	 <While the operation is stopped> The indoor unit is in the firmware update. You cannot operate the air conditioner. Wait until the update is complete (for a maximum of 30 minutes). (Refer to P.7)
 (Slow)	 <While the operation is stopped> The firmware update of the indoor unit is complete. To reset the indicator lamp, start operation from the remote controller. (Refer to P.7)
	 <While the operation is stopped> If you cannot operate the air conditioner, the malfunction may occur on the firmware of the indoor unit. Consult authorized service personnel.
 (8 times) (10 times) (Fast)	Refrigerant leak detection → Fan operation is initiated to prevent refrigerant from accumulating. Open the windows to ventilate the room and contact an authorized service personnel. * Press the  button on the indoor unit to stop the buzzer sound.
 (5 times) (4 times) (Fast)	Refrigerant leakage sensor error → Sensor error may have occurred. Contact an authorized service personnel. * The unit may resume normal operation, however contact an authorized service personnel for maintenance.
 (Slow)	(In the multi-split connection) Standby mode → Check the set operation mode of the indoor units. (Refer to P.9)

■ Manual Auto operation and Filter indicator reset

You can operate the air conditioner with  button on the indoor unit.

Status	Time to keep pressing	Mode or operation
In operation	More than 3 seconds	Stop
Stopping	2 seconds or less (Special setting) (*1)	Filter indicator reset
Stopping	More than 3 seconds and less than 10 seconds	Auto (*2)
Stopping	More than 10 seconds (Only for servicing.)(*3)	Forced cooling
Stopping	Refer to P.7 .	Initialization of the WLAN device
In Heating operation	2 seconds or less (Special setting) (*4)	Emergency heat

*1: Refer to [P.8](#) for details.

*2: In multi-split connection, the operation mode follows the other indoor units.

*3: To stop the forced cooling, press this button for more than 3 seconds or press the on/off button on the optional remote controller.

*4: Refer to [P.9](#) for details.