OPERATING INSTRUCTIONS

• To use this unit correctly and safely, be sure to read these operating instructions before use.
OPERATING INSTRUCTIONS

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SAFETY PRECAUTIONS

Marks and their meanings

⚠️ WARNING : Incorrect handling could cause serious hazard, such as death, serious injury, etc. with a high probability. Incorrect handling could cause serious hazard depending on the conditions.

⚠️ CAUTION : Never insert your finger or stick, etc.

Meanings of symbols used in this manual

🚫 : Be sure not to do.
⚠️ : Be sure to follow the instruction.
✊ : Never insert your finger or stick, etc.
👉 : Never step onto the indoor/outdoor unit and do not put anything on them.
⚡ : Danger of electric shock. Be careful.
ierung.

WARNING

Do not connect the power cord to an intermediate point, use an extension cord, or connect multiple devices to a single AC outlet.
- This may cause overheating, fire, or electric shock.

Make sure the power plug is free of dirt and insert it securely into the outlet.
- A dirty plug may cause fire or electric shock.

Do not bundle, pull, damage, or modify the power cord, and do not apply heat or place heavy objects on it.
- This may cause fire or electric shock.

Do not turn the breaker OFF/ON or disconnect/connect the power plug during operation.
- This may cause sparks, which can cause fire.
- After the indoor unit is switched OFF with the remote controller, make sure to turn the breaker OFF or disconnect the power plug.

Do not expose your body directly to cool air for a prolonged length of time.
- This could be detrimental to your health.

The unit should not be installed, relocated, disassembled, altered, or repaired by the user.
- An improperly handled air conditioner may cause fire, electric shock, injury, or water leakage, etc. Consult your dealer.
- If the power supply cord is damaged, it must be replaced by the manufacturer or its service agent in order to avoid a hazard.

When installing, relocating, or servicing the unit, make sure that no substance other than the specified refrigerant (R410A) enters the refrigerant circuit.
- Any presence of foreign substance such as air can cause abnormal pressure rise and may result in explosion or injury.
- The use of any refrigerant other than that specified for the system will cause mechanical failure, system malfunction, or unit breakdown. In the worst case, this could lead to a serious impediment to securing product safety.

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.

Do not insert your finger, a stick, or other objects into the air inlet or outlet.
- This may cause injury, since the fan inside rotates at high speeds during operation.

In case of an abnormal condition (such as a burning smell), stop the air conditioner and disconnect the power plug or turn the breaker OFF.
- A continued operation in the abnormal state may cause a malfunction, fire, or electric shock. In this case, consult your dealer.

When the air conditioner does not cool or heat, there is a possibility of refrigerant leakage. In this case, consult your dealer.
- If a repair involves recharging the unit with refrigerant, ask the service technician for details.
- The refrigerant used in the air conditioner is safe. Normally, it does not leak. However, if refrigerant leaks and comes in contact with a heat source such as a fan heater, kerosene heater, or cooking stove, it will create a harmful gas.

When installing, relocating, or servicing the unit, make sure that no substance other than the specified refrigerant (R410A) enters the refrigerant circuit.
- Any presence of foreign substance such as air can cause abnormal pressure rise and may result in explosion or injury.
- The use of any refrigerant other than that specified for the system will cause mechanical failure, system malfunction, or unit breakdown. In the worst case, this could lead to a serious impediment to securing product safety.

The user should never attempt to wash the inside of the indoor unit. Should the inside of the unit require cleaning, contact your dealer.
- Unsuitable detergent may cause damage to plastic material inside the unit, which may result in water leakage. Should detergent come in contact with electrical parts or the motor, it will result in a malfunction, smoke, or fire.
# SAFETY PRECAUTIONS

## CAUTION

- Do not touch the air inlet or the aluminum fins of the indoor/outdoor unit.
  - This may cause injury.

- Do not use insecticides or flammable sprays on the unit.
  - This may cause a fire or deformation of the unit.

- Do not expose pets or houseplants to direct airflow.
  - This may cause injury to the pets or plants.

- Do not place other electric appliances or furniture under the indoor/outdoor unit.
  - Water may drip down from the unit, which may cause damage or malfunction.

- Do not leave the unit on a damaged installation stand.
  - The unit may fall and cause injury.

- Do not step on an unstable bench to operate or clean the unit.
  - This may cause injury if you fall down.

- Do not pull the power cord.
  - This may cause a portion of the core wire to break, which may cause overheating or fire.

- Do not charge or disassemble the batteries, and do not throw them into a fire.
  - This may cause the batteries to leak, or cause a fire or explosion.

- Do not operate the unit for more than 4 hours at high humidity (80% RH or more) and/or with windows or outside door left open.
  - This may cause the water condensation in the air conditioner, which may drip down, wetting or damaging the furniture.

- Do not use the unit for special purposes, such as storing food, raising animals, growing plants, or preserving precision devices or art objects.
  - This may cause deterioration of quality, or harm to animals and plants.

- Do not expose combustion appliances to direct airflow.
  - This may cause incomplete combustion.

- Never put batteries in your mouth for any reason to avoid accidental ingestion.
  - Battery ingestion may cause choking and/or poisoning.

- Before cleaning the unit, switch it OFF and disconnect the power plug or turn the breaker OFF.
  - This may cause injury, since the fan inside rotates at high speeds during operation.

- When the unit will be unused for a long time, disconnect the power plug or turn the breaker OFF.
  - The unit may accumulate dirt, which may cause overheating or fire.

- Replace all batteries of the remote controller with new ones of the same type.
  - Using an old battery together with a new one may cause overheating, leakage, or explosion.

- If the battery fluid comes in contact with your skin or clothes, wash them thoroughly with clean water.
  - If the battery fluid comes in contact with your eyes, wash them thoroughly with clean water and immediately seek medical attention.

- Ensure that the area is well-ventilated when the unit is operated together with a combustion appliance.
  - Inadequate ventilation may cause oxygen starvation.

- Turn the breaker OFF when you hear thunder and there is a possibility of a lightning strike.
  - The unit may be damaged if lightning strikes.

## IMPORTANT

- **CAUTION**
  - After the air conditioner is used for several seasons, perform inspection and maintenance in addition to normal cleaning.
    - Dirt or dust in the unit may create an unpleasant odor, contribute to growth of fungi, such as mold, or clog the drain passage, and cause water to leak from the indoor unit. Consult your dealer for inspection and maintenance, which require specialized knowledge and skills.

- **CAUTION**
  - **WANTING**
    - Do not operate switches with wet hands.
      - This may cause electric shock.
    - Do not clean the air conditioner with water or place an object that contains water, such as a flower vase, on it.
      - This may cause fire or electric shock.
    - Do not step on or place any object on the outdoor unit.
      - This may cause injury if you or the object falls down.

- **IMPORTANT**
  - Dirty filters cause condensation in the air conditioner which will contribute to the growth of fungi such as mold. It is therefore recommended to clean air filters every 2 weeks.

- **CAUTION**
  - Do not install the unit where flammable gas could leak.
    - If gas leaks and accumulates around the outdoor unit, it may cause an explosion.

  - **WARNING**
    - Consult your dealer for installing the air conditioner.
      - It should not be installed by the user since installation requires specialized knowledge and skills. An improperly installed air conditioner may cause water leakage, fire, or electric shock.
    - Provide a dedicated power supply for the air conditioner.
      - A non-dedicated power supply may cause overheating or fire.
    - Do not install the unit where flammable gas could leak.
      - If gas leaks and accumulates around the outdoor unit, it may cause an explosion.

  - **CAUTION**
    - **WANTING**
      - Do not connect the earth wire to a gas pipe, water pipe, lightning rod, or a telephone ground wire. Improper earthing may cause electric shock.
    - **CAUTION**
      - Install an earth leakage breaker depending on the installation location of the air conditioner (such as highly humid areas).
        - If an earth leakage breaker is not installed, it may cause electric shock.
      - Ensure that the drain water is properly drained.
        - If the drain passage is improper, water may drip down from the indoor/outdoor unit, wetting and damaging the furniture.

- **CAUTION**
  - In case of an abnormal condition
    - Immediately stop operating the air conditioner and consult your dealer.

## For installation

- **WARNING**
  - Consult your dealer for installing the air conditioner.
    - It should not be installed by the user since installation requires specialized knowledge and skills. An improperly installed air conditioner may cause water leakage, fire, or electric shock.

- **CAUTION**
  - **WANTING**
    - Provide a dedicated power supply for the air conditioner.
      - A non-dedicated power supply may cause overheating or fire.
    - Do not install the unit where flammable gas could leak.
      - If gas leaks and accumulates around the outdoor unit, it may cause an explosion.

- **CAUTION**
  - **WANTING**
    - Do not connect the earth wire to a gas pipe, water pipe, lightning rod, or a telephone ground wire. Improper earthing may cause electric shock.
    - **CAUTION**
      - Install an earth leakage breaker depending on the installation location of the air conditioner (such as highly humid areas).
        - If an earth leakage breaker is not installed, it may cause electric shock.
      - Ensure that the drain water is properly drained.
        - If the drain passage is improper, water may drip down from the indoor/outdoor unit, wetting and damaging the furniture.

- **CAUTION**
  - In case of an abnormal condition
    - Immediately stop operating the air conditioner and consult your dealer.
OPERATING INSTRUCTIONS

NAME OF EACH PART

Indoor unit

Remote controller

Operation indicator lamp
Emergency operation switch
Remote control receiving section

Outdoor unit

Display section

Remote controller holder

1. Remove the front lid.
2. Insert the negative pole of AAA alkaline batteries first.
3. Install the front lid.

- Make sure the polarity of the batteries is correct.
- Do not use manganese batteries and leaking batteries. The remote controller could malfunction.
- Do not use rechargeable batteries.
- Replace all batteries with new ones of the same type.
- Batteries can be used for approximately 1 year. However, batteries with expired shelf lives last shorter.
- Press RESET gently using a thin instrument.

4. Press RESET.

Before operation: Insert the power supply plug into the power outlet and/or turn the breaker on.

Installing the remote controller batteries

Setting current time

1. Press CLOCK.
2. Press either the TIME button or the TIMER buttons to set the time.
   Each press increases/decreases the time by 1 minute (10 minutes when pressed longer).
3. Press the DAY button to set the day.
4. Press CLOCK again.

• Press CLOCK gently using a thin instrument.

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SELECTING OPERATION MODES

1. Press \[ \text{ON/OFF} \] to start the operation.

2. Press \[ \text{MODE} \] to select operation mode. Each press changes mode in the following order:

   \[ \text{AUTO} \rightarrow \text{COOL} \rightarrow \text{DRY} \rightarrow \text{HEAT} \rightarrow \text{FAN} \]

3. Press \[ \text{UP} \] or \[ \text{DOWN} \] to set the temperature. Each press raises or lowers the temperature by 1°C.

   Press \[ \text{ON/OFF} \] to stop the operation.
   • The same setting is selected the next time by simply pressing \[ \text{ON/OFF} \].

Operation indicator lamp
The operation indicator lamp shows the operation state of the unit.

<table>
<thead>
<tr>
<th>Indication</th>
<th>Operation state</th>
<th>Room temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ \text{AUTO} ]</td>
<td>The unit is operating to reach the set temperature</td>
<td>About 2°C or more away from set temperature</td>
</tr>
<tr>
<td>[ \text{COOL} ]</td>
<td>The room temperature is approaching the set temperature</td>
<td>About 1 to 2°C from set temperature</td>
</tr>
<tr>
<td>[ \text{DRY} ]</td>
<td>Standby mode (only during multi system operation)</td>
<td>—</td>
</tr>
</tbody>
</table>

Note:

Multi system operation
Two or more indoor units can be operated by one outdoor unit. When several indoor units are operated simultaneously, cooling and heating operations cannot be done at the same time. When COOL is selected with one unit and HEAT with another or vice versa, the unit selected last goes into standby mode.

Emergency operation
When the remote controller cannot be used...
Emergency operation can be activated by pressing the emergency operation switch (E.O.SW) on the indoor unit.

Each time the E.O.SW is pressed, the operation changes in the following order:

<table>
<thead>
<tr>
<th>Operation indicator lamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ Emergency COOL ]</td>
</tr>
<tr>
<td>[ Emergency HEAT ]</td>
</tr>
<tr>
<td>[ Stop ]</td>
</tr>
</tbody>
</table>

Set temperature : 24°C
Fan speed : Medium
Horizontal vane : Auto

Note:
The first 30 minutes of operation is test run. Temperature control does not work, and fan speed is set to High.

Auto restart function
If a power failure occurs or the main power is turned off during operation, “Auto restart function” automatically starts operation in the same mode as the one set with the remote controller just before the shutdown of the main power. When timer is set, timer setting is cancelled and the unit starts operation when power is resumed.

If you do not want to use this function, please consult the service representative because the setting of the unit needs to be changed.
FAN SPEED AND AIRFLOW DIRECTION ADJUSTMENT

Press \( \) to select fan speed. Each press changes fan speed in the following order:

\[
\text{(AUTO)} \rightarrow \text{(Silent)} \rightarrow \text{(Low)} \rightarrow \text{(Med.)} \rightarrow \text{(High)} \rightarrow \text{(Super High)}
\]

- Two short beeps are heard from the indoor unit when set to AUTO.
- Use higher fan speed to cool/heat the room quicker. It is recommended to lower the fan speed once the room is cool/warm.
- Use lower fan speed for quiet operation.

Note:

Multi system operation
When several indoor units are operated simultaneously by one outdoor unit for heating operation, the temperature of the airflow may be low. In this case, it is recommended to set the fan speed to AUTO.

Long Operation

Press \( \) to start LONG operation.
- Fan speed increases and the horizontal vane moves to the position for LONG mode.
- Air reaches to longer distance.

Press \( \) again to cancel LONG operation.
- LONG operation is cancelled when the ON/OFF, VANE, or ECONO COOL button is pressed.

Powerful Operation

Press \( \) during COOL or HEAT mode to start POWERFUL operation.

- Fan speed: Exclusive speed for POWERFUL mode
- Horizontal vane: Set position, or downward airflow position during AUTO setting
- Temperature cannot be set during POWERFUL operation.

Press \( \) again to cancel POWERFUL operation.
- POWERFUL operation also is cancelled automatically in 15 minutes, or when the ON/OFF, FAN, ECONO COOL, or i-save button is pressed.

Airflow direction

\( \text{(AUTO)} \)...... The vane is set to the most efficient airflow direction. COOL/DRY: horizontal position. HEAT: position (5).

\( \text{(Manual)} \)...... For efficient air conditioning, select the upper position for COOL/DRY, and the lower position for HEAT. If the lower position is selected during COOL/DRY, the vane automatically moves to the horizontal position after 0.5 to 1 hour to prevent any condensation from dripping.

\( \text{(Swing)} \)...... The vane moves up and down intermittently.
**I-SAVE OPERATION**

1. Press **I** during COOL, ECONO COOL, or HEAT mode to select i-save mode.

2. Set the temperature, fan speed, and airflow direction.
   - The same setting is selected from the next time by simply pressing **I** button.
   - Two settings can be saved. (One for COOL/ECONO COOL, one for HEAT)
   - Select the appropriate temperature, fan speed, and airflow direction according to your room.
   - Normally, the minimum temperature setting in HEAT mode is 16°C. However, during i-save operation only, the minimum temperature setting is 10°C.

Press **I** again to cancel i-save operation.
   - i-save operation also is canceled when the MODE or POWERFUL button is pressed.

**i-save operation**

A simplified set back function enables to recall the preferred (preset) setting with a single push of the **I** button. Press the button again and you can go back to the previous setting in an instance.

**Example of use:**
1. Low energy mode
   - Set the temperature 2°C to 3°C warmer in COOL and cooler in HEAT mode.
   - This setting is suitable for unoccupied room, and while you are sleeping.
2. Saving frequently used settings
   - Save your preferred setting for COOL/ECONO COOL and HEAT. This enables you to select your preferred setting with a single push of the button.

**Note:**

When using the multi system MKZ-8A140, the temperature cannot be set to 10°C. Even if the temperature is set to 10°C, the air conditioner will operate at 10°C.

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**ECONO COOL OPERATION**

Press **ECONO COOL** during COOL mode page 4 to start ECONO COOL operation.

The unit performs swing operation vertically in various cycles according to the temperature of airflow.

Press **ECONO COOL** again to cancel ECONO COOL operation.

**What is “ECONO COOL”?**

Swing airflow (change of air flow) makes you feel cooler than stationary airflow. The set temperature and the airflow direction is automatically changed by the microprocessor. It is possible to perform cooling operation with keeping comfort. As a result energy can be saved.

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**TIMER OPERATION (ON/OFF TIMER)**

1. Press **ON** or **OFF** during operation to set the timer.
   - **ON** (ON timer): The unit turns ON at the set time.
   - **OFF** (OFF timer): The unit turns OFF at the set time.

   * **ON** or **OFF** blinks.
   * Make sure that the current time and day are set correctly. Page 3

2. Press (Increase) and (Decrease) to set the time of timer.

   Each press increases or decreases the set time by 10 minutes.
   - Set the timer while **ON** or **OFF** is blinking.

3. Press **ON** or **OFF** again to cancel timer.

**Note:**

- ON and OFF timers can be set together. mark indicates the order of timer operations.
- If power failure occurs while ON/OFF timer is set, see page 4 “Auto restart function”.

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**WEEKLY TIMER OPERATION**

- A maximum of 4 ON or OFF timers can be set for individual days of the week.
- A maximum of 28 ON or OFF timers can be set for a week.

### Setting the weekly timer

1. **Press** to enter the weekly timer setting mode.

   * ( ) blinks.

2. **Press** and **to select setting day and number.**

   E.g.: [Mon Tue ... Sun] and [1] are selected.

   - Pressing selects the day of the week to be set.
   - Pressing selects the setting number.

3. **Press** to set ON/OFF, time, and temperature.

   E.g.: [ON], [6:00] and [24°C] are selected.

   - Pressing selects ON/OFF timer.
   - Pressing adjusts the temperature.
   - Pressing adjusts the time.
   - Pressing deletes timer setting.

4. **Press** to continue setting the timer for other days and/or numbers.

5. **Press** to complete and transmit the weekly timer setting.

   - ( ) which was blinking goes out, and the current time will be displayed.

   * Hold down the button to change the time quickly.

   * The temperature can be set between 16°C and 31°C at weekly timer.

### Checking weekly timer setting

1. **Press** to enter the weekly timer setting mode.

   * ( ) blinks.

2. **Press** or **to view the setting of the particular day or number.**

   Pressing **gives out, and the current time will be displayed.**

   * Hold down the button to change the time quickly.

   * The temperature can be set between 16°C and 31°C at weekly timer.

### Note:

The simple ON/OFF timer setting is available while the weekly timer is on. In this case, the ON/OFF timer has priority over the weekly timer; the weekly timer operation will start again after the simple ON/OFF timer is complete.

* Make sure that the current time and day are set correctly.

### Setting the weekly timer

- **Press** to enter the weekly timer setting mode.

  * ( ) blinks.

- **Press** and **to select setting day and number.**

  E.g.: [Mon Tue ... Sun] and [1] are selected.

- **Pressing** selects the day of the week to be set.
- **Pressing** selects the setting number.

- * All days can be selected.

### Checking weekly timer setting

- **Press** to enter the weekly timer setting mode.

  * ( ) blinks.

- **Press** or **to view the setting of the particular day or number.**

  Press **to exit the weekly timer setting.**

### Note:

The simple ON/OFF timer setting is available while the weekly timer is on. In this case, the ON/OFF timer has priority over the weekly timer; the weekly timer operation will start again after the simple ON/OFF timer is complete.
CLEANING

Instructions:
- Switch off the power supply or turn off the breaker before cleaning.
- Be careful not to touch the metal parts with your hands.
- Do not use benzine, thinner, polishing powder, or insecticide.
- Use only diluted mild detergents.
- Do not expose parts to direct sunlight, heat, or fire to dry.
- Do not use water hotter than 50°C.

Heat exchanger
- Wear gloves to protect your hands.
- Use the QUICK CLEAN KIT (option). Parts Number MAC-093SS-E
- Refer to the instructions described in the QUICK CLEAN KIT for details.

Air cleaning filter
(Electrostatic anti-allergy enzyme filter)
Every 3 months:
- Remove dirt by a vacuum cleaner. When dirt cannot be removed by vacuum cleaning:
  - Soak the filter and its frame in lukewarm water before rinsing it.
  - After washing, dry it well in shade.
Every year:
- Replace it with a new air cleaning filter for best performance.
  - Parts Number MAC-2310FT

Air outlet and Fan (before cleaning, make sure that the fan is stopped)

1. Turn the horizontal vanes downward. Then, remove the upper vane as shown in ① and ②.
   - Repeat ① and ② for the lower vane.
2. Swing out the two vertical vanes one by one.
3. Clean the air outlet and fan.
   - Wipe with a soft dry cloth.

Note:
- Do not apply excessive force to the fan or fan guard.

Front panel
1. Lift the front panel until a “click” is heard.
2. Hold the hinges and pull to remove as shown in the left illustration.
   - Wipe with a soft dry cloth or rinse it with water.
   - After washing with water, dry it well in shade.
3. Install the front panel by following the removal procedure in reverse. Close the front panel securely and press the positions indicated by the arrows.

Air filter (Nano platinum filter)
- Clean every 2 weeks
  - Remove dirt by a vacuum cleaner, or rinse with water.
  - After washing with water, dry it well in shade.

What is “Nano platinum filter”?
Nano platinum is a ceramic particle that includes a platinum nanoparticle. The particles are incorporated into the filter material, which results in providing semi-permanent antibacterial and deodorizing characteristics for the filter. Nano platinum surpasses the catechin (a bioflavonoid that is found in green tea) in performance. Nano platinum filter uses this compound not only to improve air quality but also to eliminate bacteria and viruses. This air filter has a semi-permanent lasting effect even after washing it with water.

Important
- Clean the filters regularly for best performance and to reduce power consumption.
- Dirty filters cause condensation in the air conditioner which will contribute to the growth of fungi such as mold. It is therefore recommended to clean air filters every 2 weeks.

Heat exchanger
- Wear gloves to protect your hands.
- Use the QUICK CLEAN KIT (option). Parts Number MAC-093SS-E
- Refer to the instructions described in the QUICK CLEAN KIT for details.
## Operating Instructions

### When You Think That Trouble Has Occurred

Even if these items are checked, when the unit does not recover from the trouble, stop using the air conditioner and consult your dealer.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Explanation &amp; Check points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor Unit</td>
<td></td>
</tr>
</tbody>
</table>
| The unit cannot be operated. | • Is the breaker turned on?  
• Is the power supply plug connected?  
• Is the ON timer set? |
| All LED lamps on the indoor unit are blinking. | • Are the horizontal vanes installed correctly?  
• Is the ON timer set? |
| The horizontal vane does not move. | • Are the horizontal vane and the vertical vane installed correctly?  
• Is the fan guard deformed? |
| The unit cannot be operated for about 3 minutes when restarted. | • This protects the unit according to instructions from the microcomputer. Please wait.  
• The cool air from the unit rapidly cools moisture in the air inside the room, and it turns into mist. |
| The swing operation of the HORIZONTAL VANE is suspended for a while, then restarted. | • This is for the swing operation of the HORIZONTAL VANE to be performed normally. |
| The airflow direction changes during operation. The direction of the horizontal vane cannot be adjusted with the remote controller. | • When the unit is operated in COOL or DRY mode, if the operation continues with air blowing down for 0.5 to 1 hour, the direction of the airflow is automatically set to horizontal position to prevent water from condensing and dripping.  
• In the heating operation, if the airflow temperature is too low or when defrosting is being done, the horizontal vane is automatically set to horizontal position. |
| The operation stops for about 10 minutes in the heating operation. | • Outdoor unit is in defrost.  
Since this is completed in max. 10 minutes, please wait. (When the outside temperature is too low and humidity is too high, frost is formed.) |
| The unit starts operation by itself when the main power is turned on, but isn’t received sign from the remote controller. | • These models are equipped with an auto restart function. When the main power is turned off without stopping the unit with the remote controller and is turned on again, the unit starts operation automatically in the same mode as the one set with the remote controller just before the shutoff of the main power. Refer to “Auto restart function”  
• The unit may suck in an odor adhering to the wall, carpet, furniture, cloth, etc. and blow it out with the air. |
| In COOL/DRY mode, when the room temperature reaches near the set temperature, the outdoor unit stops, then the indoor fan also stops running. The indoor fan alternates ON and OFF afterward. | • The indoor fan stops running at the set temperature to reduce power consumption.  
A couple minutes afterward, however, the indoor fan operates at low speed for some seconds at regular intervals to sense accurate room temperature. When the room temperature rises and the outdoor unit turns on, the indoor fans starts running according to the settings on the remote controller. |
| The indoor unit discolors over time. | • Although plastic turns yellow due to the influence of some factors such as ultraviolet light and temperature, this has no effect on the product functions. |
| Multi system | |
| The indoor unit which is not operating becomes warm and a sound, similar to water flowing, is heard from the unit. | • A small amount of refrigerant continues to flow into the indoor unit even though it is not operating. |
| When heating operation is selected, operation does not start right away. | • When operation is started during defrosting of outdoor unit is done, it takes a few minutes (max. 10 minutes) to blow out warm air. |
| Outdoor Unit | |
| The fan of the outdoor unit does not rotate even though the compressor is running. Even if the fan starts to rotate, it stops soon. | • When the outside temperature is low during cooling operation, the fan operates intermittently to maintain sufficient cooling capacity. |
| Water leaks from the outdoor unit. | • During COOL and DRY operations, pipe or pipe connecting sections are cooled and this causes water to condense.  
• In the heating operation, water condensed on the heat exchanger drips down.  
• In the heating operation, the defrosting operation makes ice forming on the outdoor unit melt and drip down. |
| White smoke is discharged from the outdoor unit. | • In the heating operation, vapor generated by the defrosting operation looks like white smoke. |

### Symptom | Explanation & Check points
---|---
Remote controller | |
| The display on the remote controller does not appear or it is dim. The indoor unit does not respond to the remote control signal. | • Are the batteries exhausted?  
• Is the polarity (+, -) of the batteries correct?  
• Are any buttons on the remote controller of other electric appliances being pressed? |
| The room cannot be cooled or heated sufficiently. | • Is the temperature setting appropriate?  
• Is the fan setting appropriate? Please change fan speed to higher setting.  
• Are the filters clean?  
• Is the fan or heat exchanger of the indoor unit clean?  
• Are there any obstacles blocking the air inlet or outlet of the indoor or outdoor unit?  
• Is a window or door open? |
| The room cannot be heated sufficiently. | • When a ventilation fan or a gas cooker is used in a room, the cooling load increases, resulting in an insufficient cooling effect.  
• When the outside temperature is high, the cooling effect may not be sufficient. |
| Air flow does not blow out soon in the heating operation. | • Please wait as the unit is preparing to blow out warm air. |
| The air from the indoor unit smells strange. | • Are the filters clean?  
• Is the fan or heat exchanger of the indoor unit clean?  
• The unit may suck in an odor adhering to the wall, carpet, furniture, cloth, etc. and blow it out with the air. |
| Crackling sound is heard. | • This sound is generated by the expansion/contraction of the front panel, etc. due to change in temperature. |
| “Burbling” sound is heard. | • This sound is heard when the outside air is absorbed from the drain hose by turning on the range hood or the ventilation fan, making water flowing in the drain hose to spout out.  
This sound is also heard when the outside air blows into the drain hose in case the outside wind is strong. |
| Mechanical sound is heard from the indoor unit. | • This is the switching sound in turning on/off the fan or the compressor. |
| The sound of water flowing is heard. | • This is the sound of refrigerant or condensed water flowing in the unit. |
| Hissing sound is sometimes heard. | • This is the sound when the flow of refrigerant inside the unit is changed. |

### Sound

- **Cracking sound**
- **“Burbling” sound**
- **Mechanical sound**
- **Hissing sound**

### Timer

- **Weekly timer does not operate according to settings.**
  - Is the ON/OFF timer set?  
  - Transmit the setting information of the weekly timer to the indoor unit again. When the information is successfully received, a long beep will sound from the indoor unit. If information fails to be received, 3 short beeps will be heard. Ensure information is successfully received.  
  - When a power failure occurs and the main power turns off, the indoor unit built-in clock will be incorrect. As a result, the weekly timer may not work normally. Be sure to place the remote controller where the signal can be received by the indoor unit.  
  - The unit starts/stops the operation by itself.  
  - Is the weekly timer set?  

In the following cases, stop using the air conditioner and consult your dealer.

- When water leaks or drips from the indoor unit.
- When the upper operation indicator lamp blinks.
- When the breaker trips frequently.
- The remote control signal is not received in a room where an electronic ON/OFF type fluorescent lamp (inverter-type fluorescent lamp, etc.) is used.
- Operation of the air conditioner interferes with radio or TV reception. An amplifier may be required for the affected device.
- When an abnormal sound is heard.
WHEN THE AIR CONDITIONER IS NOT GOING TO BE USED FOR A LONG TIME

1. Set to the highest temperature in manual COOL mode, and operate for 3 to 4 hours. [Page 4]
   • This dries the inside of the unit.
   • Moisture in the air conditioner contributes to growth of fungi, such as mold.

2. Press [ON/OFF] to stop the operation.

3. Turn off the breaker and/or disconnect the power supply plug.

4. Remove all batteries from the remote controller.

When using the air conditioner again:

1. Clean the air filter. [Page 8]

2. Check that the air inlet and outlet of the indoor and outdoor units are not blocked.

3. Check that the earth is connected correctly.

4. Refer to the “PREPARATION BEFORE OPERATION”, and follow the instructions. [Page 3]

INSTALLATION PLACE AND ELECTRICAL WORK

Installation place
Avoid installing the air conditioner in the following places.
• Where there is much machine oil.
• Salty places such as the seaside.
• Where sulfide gas is generated such as a hot spring.
• Where oil is splashed or where the area is filled with oily smoke (such as cooking areas and factories, in which the properties of plastic could be changed and damaged).
• Where there is high-frequency or wireless equipment.
• Where the air from the outdoor unit air outlet is blocked.
• Where the operation sound or air from the outdoor unit does not bother the house next door.

Electrical work
• Provide an exclusive circuit for the power supply of the air conditioner.
• Be sure to observe the breaker capacity.

If you have any questions, consult your dealer.

SPECIFICATIONS

Guaranteed operating range

<table>
<thead>
<tr>
<th></th>
<th>Indoor</th>
<th>Outdoor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper limit</td>
<td>32°C DB</td>
<td>46°C DB</td>
</tr>
<tr>
<td>Lower limit</td>
<td>21°C DB, 15°C WB</td>
<td>-10°C DB</td>
</tr>
<tr>
<td>Heating</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper limit</td>
<td>27°C DB</td>
<td>24°C DB</td>
</tr>
<tr>
<td>Lower limit</td>
<td>20°C DB</td>
<td>-15°C DB, -16°C WB</td>
</tr>
</tbody>
</table>

DB : Dry Bulb
WB : Wet Bulb