FLOOR-TYPE AIR CONDITIONERS

INDOOR UNIT
MFZ-KA25VA  MFZ-KA35VA  MFZ-KA50VA

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

For user
SAFETY PRECAUTIONS

- Since rotating parts and parts which could cause an electric shock are used in this product, be sure to read these "Safety Precautions" before use.
- Since the cautionary items shown here are important for safety, be sure to observe them.
- After reading this manual, keep it together with the installation manual in a handy place for easy reference.
- Be sure to receive a guarantee card from your dealer and check that the purchased date and shop name, etc. are entered correctly.

Marks and their meanings

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

**WARNING**

- **Do not insert 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 create 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.**

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.
- ⚤ : Be sure to disconnect the power supply plug from the power outlet.
- 🔴 : Be sure to shut off the power.

**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.
SAFETY PRECAUTIONS

CAUTION

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.
• The water condensation in the air conditioner may contribute to growth of fungi, such as mold.

Do not operate 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.

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.

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 contribute to the growth of fungi such as mold. It is therefore recommended to clean air filters every 2 weeks.

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.

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.

Earth the unit correctly.
• 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.

In case of an abnormal condition
Immediately stop operating the air conditioner and consult your dealer.
## Name of Each Part

### Indoor unit
- Vertical vane
- Air outlet
- Horizontal vane
- Catechin air filter
- Air cleaning filter (Anti-Allergy Enzyme Filter, blue bellows type)
- Damper
- Air outlet
- Vertical vane
- Air inlet

### Remote controller
- Operation display section
  - ON/OFF (operate/stop) button
  - Operation select button
  - FAN speed control button
  - ECONO COOL button
  - VANE control button

### Outdoor unit
- Air inlet (back and side)
- Piping
- Drain outlet
- Drainage hose

Outdoor units may be different in appearance.

## Preparation Before Operation

### Setting current time
1. Press RESET
2. Press CLOCK
3. Press TIME buttons to set time
   - Each press increases/ decreases time by 1 minute (10 minutes when pressed longer).
   - Press RESET and CLOCK gently using a thin stick. If the RESET button is not pressed, the remote controller may not operate correctly.

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

### Installing the remote controller batteries
1. Remove the front lid
2. Insert AAA alkaline batteries
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.

### Preparing before operation
- Insert the remote control holder in a place where the signal can be received by the indoor unit.

- If two or more indoor units are installed in proximity to one another, an indoor unit that is not intended to be operated may respond to the remote controller.
SELECTING OPERATION MODES

1. Press \( \text{MODE} \) to start the operation.

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

   - **AUTO**
   - **COOL**
   - **DRY**
   - **HEAT**

3. Press \( \text{HEAT} \) or \( \text{COOL} \) to set the temperature. Each press raises or lowers the temperature by 1°C.

   - Press \( \text{HEAT} \) or \( \text{COOL} \) to stop the operation. The same setting is selected the next time by simply pressing the button.

**Operation indicator lamp**

The operation indicator at the right side of the indoor unit indicates the operation state.

<table>
<thead>
<tr>
<th>Indication</th>
<th>Operation state</th>
<th>Difference between target temperature and room temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \text{HEAT} )</td>
<td>This shows the room temperature is approaching the target temperature.</td>
<td>About 2°C or less</td>
</tr>
<tr>
<td>( \text{COOL} )</td>
<td>This shows that the air conditioner is operating to reach the target temperature. Please wait until the target temperature is obtained.</td>
<td>About 2°C or more</td>
</tr>
<tr>
<td>( \text{AUTO} )</td>
<td>This shows that the air conditioner is operating to reach the target temperature.</td>
<td>—</td>
</tr>
<tr>
<td>( \text{DRY} )</td>
<td>This shows a state of standby for operation. Please refer to Information for multi-system air conditioner above.</td>
<td>—</td>
</tr>
<tr>
<td>( \text{i-save} )</td>
<td>Refer to the description of i-save mode.</td>
<td>—</td>
</tr>
</tbody>
</table>

**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 shutoff 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.

**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 operated later becomes standby mode.

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**AUTO mode (Auto changeover)**

The unit selects the operation mode according to the difference between the room temperature and the set temperature. During AUTO mode, the unit changes mode (COOL ↔ HEAT) when the room temperature is 2°C away from the set temperature for more than 15 minutes.

**Note:**

During multi system operation, the unit may not be able to switch operation mode between COOL and HEAT. In this case, the indoor unit becomes standby mode.

**COOL mode**

Enjoy cool air at your desired temperature. Do not operate COOL mode at low outside temperature (less than -10°C). Water condensed in the unit may drip and wet or damage furniture, etc.

**DRY mode**

Dehumidify your room. The room may be cooled slightly. Temperature cannot be set during DRY mode.

**HEAT mode**

Enjoy warm air at your desired temperature.

**Emergency operation**

When the remote controller cannot be used...

Emergency operation can be activated by pressing the emergency operation switch on the indoor unit.

Each time the emergency operation switch is pressed, the operation will change in the following order:

- Emergency COOL
- Emergency HEAT
- Stop

**Note:**

The first 30 minutes of operation is test run. Temperature control does not work, and fan speed is set to High.
**FAN SPEED AND AIRFLOW DIRECTION ADJUSTMENT**

Press \[\text{FAN}\] to select fan speed. Each press will change fan speed in the following order:

- (AUTO) ➔ (Low) ➔ (Med.) ➔ (High) ➔ (Super High)

- Two short beeps will be heard from the indoor unit when set to AUTO.

Press \[\text{VANE}\] to select vertical airflow direction. Each press will change airflow direction in the following order:

- (AUTO) ➔ (1) ➔ (2) ➔ (3) ➔ (4) ➔ (5) ➔ (SWING)

- Two short beeps will be heard from the indoor unit when set to AUTO.
- Moving the horizontal vane manually can cause trouble.
- The horizontal vane automatically moves in certain intervals to determine its position, and then it returns to the set position.

**Airflow direction**

- (AUTO) The vane will be set to the most efficient airflow direction. COOL/DRY: position (1) HEAT (upper and lower air outlets): position (3) HEAT (upper air outlet only): position (5)
- (Manual) For efficient air conditioning, select upper position for COOL/DRY, and lower position for HEAT. During COOL/DRY, when the vane is set to position (3), (4), or (5), the vane automatically moves to position (1) after 0.5 to 1 hour to prevent water dripping.
- (Swing) The vane will move up and down intermittently.

To change the horizontal airflow direction.

Move the vertical vane manually before starting operation.

Always adjust the vane when the damper is open. Opening the damper forcibly with hands can cause damage or malfunction.

**AIR OUTLET SELECTION**

Select \[\text{\textdegree}\] to blow air from the upper and lower air outlets.

Air will blow only from the upper outlet in the following conditions:
- During COOL: When the room temperature is close to set temperature. When the air conditioner has operated for 1 hour.
- During DRY operation.
- During HEAT: When the air flow temperature is low.
  (During defrosting operation, start of operation, etc.)

Select \[\text{\textdegree}\] to blow air from the upper air outlet only.

**Note:**

Be sure to keep the area around the damper of the lower air outlet free of any objects. If any objects block the normal operation of the damper, the left operation indicator lamp may blink.
Set the air outlet selection switch to the end. Otherwise, air outlet cannot be selected as intended.
**i-save OPERATION**

**1.** Press [i-save] to select i-save mode. Select i-save during COOL, ECONO COOL, or HEAT operation.
   - The operation indicator lamp on the right side of the indoor unit lights in orange.

**2.** Set the temperature, fan speed, and air flow direction.
   - The same setting will be selected from the next time by simply pressing [i-save] again.
   - Two groups of setting can be saved. (one for COOL/ECONO COOL, one for HEAT)

**3.** Press [i-save] again to cancel i-save operation.
   - Pressing [i-save] also cancels i-save operation.
   - The operation indicator lamp on the right side of the indoor unit turns off or changes from orange to green.

**i-save operation**

A simplified set back function enables to recall the preferred (preset) setting with a single push of the [i-save] 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 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.

**ECONO COOL OPERATION**

**1.** Press [ECONO COOL] during COOL mode to start ECONO COOL operation.
   - The unit performs swing operation vertically in various cycle according to the temperature of the unit. Set temperature is set 2°C higher automatically.

**2.** Press [ECONO COOL] again to cancel ECONO COOL operation.
   - Pressing [ECONO COOL] also cancels ECONO COOL operation.

**What is “ECONO COOL”?**

Swing air flow (change of air flow) makes you feel cooler than constant air flow. So, even though the set temperature is automatically set 2°C higher, it is possible to perform cooling operation with keeping comfort. As a result, energy can be saved.

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

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

   * ☑+1 or ☑+0 blinks.
   * Make sure that the current time is 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.

**3.** Press [START] or [STOP] again to cancel timer.

**Note:**

- ON and OFF timers can be used in combination.
- If power failure occurs while ON/OFF timer is set, see Page 4 “Auto restart function”.

En-6
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 flames to dry.
• Do not water hotter than 50°C.

Heat exchanger

• Wear gloves to protect your hands.
• Use the QUICK CLEAN KIT (optional).
• Refer to the instructions described in the QUICK CLEAN KIT for details.

Note:

• Clean the filters regularly for best performance and to reduce power consumption.
• Please consult your dealer for seasonal inspection.

Air cleaning filter

• Clean every 3 months.
• Soak the filter together with its frame in lukewarm water and wash it.
• After cleaning, dry it well in shade and put it back to its original position. Install all tabs of the air filter.
• Replace it with a new air cleaning filter every year for best performance.

Air filter (Catechin air filter)

• Clean every 2 weeks
• Remove dirt by a vacuum cleaner, or wash with water.
• Dry it well in shade before installing it.

What is “Catechin air filter”?

The air filter is dyed with a natural material, catechin, that is contained in tea. The catechin air filter deodorizes odor and noxious gases such as formaldehyde, ammonia, and acetaldehyde. Moreover, it restraints the activity of the viruses adhering to the filter.

Front grille

1. Push the 2 positions indicated by the arrows until a click is heard, and open the front grille.
2. Unhook the string which holds the grille.
3. Open the grille completely and then remove it.
• Wipe with a soft dry cloth or wash it with water.
• Do not soak it in water for more than two hours.
• Dry it well in shade before installing it.
4. Install the grille by following the removal procedure in reverse. Be sure to hook the string before closing the grille.
## When you think that trouble has occurred

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Explanation &amp; Check points</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Indoor Unit</strong></td>
<td></td>
</tr>
<tr>
<td>The indoor unit which is not operating becomes warm and a sound, similar to water flowing, is heard from the unit.</td>
<td>• A small amount of refrigerant continues to flow into the indoor unit even though it is not operating.</td>
</tr>
<tr>
<td>When heating operation is selected, operation does not start right away.</td>
<td>• When operation is started during defrosting of outdoor unit is done, it takes a few minutes (max. 10 minutes) to blow out warm air.</td>
</tr>
<tr>
<td><strong>Remote controller</strong></td>
<td></td>
</tr>
</tbody>
</table>
| 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? \[Page 5\]  
• Is the polarity (+, -) of the batteries correct? \[Page 6\]  
• Are any buttons on the remote controller of other electric appliances being pressed? |
| **Does not cool or heat** | | |
| The room cannot be cooled or heated sufficiently. | • Is the temperature setting appropriate? \[Page 4\]  
• Is the fan setting appropriate? Please change fan speed to higher setting. \[Page 5\]  
• Is the air outlet selection switch set to upper air outlet only? Change to upper and lower air outlets. \[Page 6\]  
• Is the filter clean? \[Page 5\]  
• Is the fan or heat exchanger of the indoor unit clean? \[Page 7\]  
• 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 the outside temperature is low, the heating effect may not be sufficient. |
| The room cannot be cooled sufficiently. | • When the outside temperature is high, the cooling effect may not be sufficient. |
| **Airflow** | | |
| The fan of the outdoor unit does not rotate even though the compressor is running. | • 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 water frozen 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. |

### 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.
**OPERATING INSTRUCTIONS**

**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.

2. Press [ ] 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 7]

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.

**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.
  - 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>Model</th>
<th>Indoor</th>
<th>Outdoor</th>
<th>SUZ-KA25/35</th>
<th>SUZ-KA50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling</td>
<td>Upper limit</td>
<td>32°C DB</td>
<td>46°C DB</td>
<td>43°C DB</td>
</tr>
<tr>
<td></td>
<td>Lower limit</td>
<td>21°C DB</td>
<td>-10°C DB</td>
<td>-10°C DB</td>
</tr>
<tr>
<td>Heating</td>
<td>Upper limit</td>
<td>27°C DB</td>
<td>24°C DB</td>
<td>24°C DB</td>
</tr>
<tr>
<td></td>
<td>Lower limit</td>
<td>20°C DB</td>
<td>-15°C DB</td>
<td>-15°C DB</td>
</tr>
</tbody>
</table>

**Note:**
- Rating condition
  - Cooling — Indoor: 27°C DB, 19°C WB  Outdoor: 35°C DB
  - Heating — Indoor: 20°C DB  Outdoor: 7°C DB, 6°C WB

As for the specifications of multi system, please confirm your dealer and/or refer to the catalogue.