SPLIT-TYPE AIR CONDITIONERS

INDOOR UNIT

MSZ-EF22VAW  MSZ-EF25VAW  MSZ-EF35VAW  MSZ-EF42VAW  MSZ-EF50VAW
MSZ-EF22VAB  MSZ-EF25VAB  MSZ-EF35VAB  MSZ-EF42VAB  MSZ-EF50VAB
MSZ-EF22VAS  MSZ-EF25VAS  MSZ-EF35VAS  MSZ-EF42VAS  MSZ-EF50VAS

OPERATING INSTRUCTIONS

For user

English

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

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 data 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.

Means of symbols used in this manual

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>❌</td>
<td>Be sure to do.</td>
</tr>
<tr>
<td>❗️</td>
<td>Be sure to follow the instruction.</td>
</tr>
<tr>
<td>🚫</td>
<td>Never insert your finger or stick, etc.</td>
</tr>
<tr>
<td>🍀</td>
<td>Never step on the indoor/outdoor unit and do not put anything on them</td>
</tr>
<tr>
<td>☢️</td>
<td>Danger of electric shock. Be careful.</td>
</tr>
<tr>
<td>☑️</td>
<td>Be sure to shut off the power.</td>
</tr>
</tbody>
</table>

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 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.

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

- 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.

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.

Before starting the operation, ensure that the horizontal vanes are in the closed position. If operation starts when the horizontal vanes are in the open position, they may not return to the correct position.

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, lighting 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.
OPERATING INSTRUCTIONS

NAME OF EACH PART

Indoor unit

Remote controller

Outdoor unit

Remote controller holder

PREPARATION BEFORE OPERATION

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.
• Press RESET gently using a thin instrument. If the RESET button is not pressed, the remote controller may not operate correctly.

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.
**Selecting Operation Modes**

**AUTO mode (Auto change over)**

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:**
Auto Mode is not recommended if this indoor unit is connected to a MXZ type outdoor unit. When several indoor units are operated simultaneously, the unit may not be able to switch operation mode between COOL and HEAT. In this case, the indoor unit becomes standby mode (Refer to table of Operation indicator lamp).

**COOL mode**

Enjoy cool air at your desired temperature.

**Note:**
Do not operate COOL mode at very low outside temperatures (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.

**FAN mode**

Circulate the air in your room.

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**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></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></td>
<td>The room temperature is approaching the set temperature</td>
<td>About 1 to 2°C from set temperature</td>
</tr>
<tr>
<td></td>
<td>Standby mode (only during multi system operation)</td>
<td>—</td>
</tr>
</tbody>
</table>

**Note:**
Lighted  Blinking  Not lighted

**Multi system operation**

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

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**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:

- Emergency COOL
- Emergency HEAT
- Stop

**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.
- In the emergency heating operation, the fan speed gradually rises to blow out warm air.
- In the emergency cooling operation, the horizontal vanes’ position will be reset in about a minute, then the operation will start.

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**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.

En-4
**FAN SPEED AND AIRFLOW DIRECTION ADJUSTMENT**

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

- \( (AUTO) \rightarrow (Quiet) \rightarrow (Low) \rightarrow (Med.) \rightarrow (High) \rightarrow (Super High) \)

- 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.

Press \( \) to select airflow direction. Each press changes airflow direction in the following order:

- \( (AUTO) \rightarrow (1) \rightarrow (2) \rightarrow (3) \rightarrow (4) \rightarrow (5) \rightarrow (SWING) \)

- Two short beeps are heard from the indoor unit when set to AUTO.
- Always use the remote controller when changing the direction of airflow. Moving the horizontal vanes with your hands causes them to malfunction.
- When the breaker is turned on, the horizontal vanes' position will be reset in about a minute, then the operation will start. The same is true in the emergency cooling operation.
- When the horizontal vanes seem to be in an abnormal position, see page 9.

**Airflow direction**

- \( (AUTO) \) ....... The vane is set to the most efficient airflow direction. COOL/DRY/FAN-horizontal position, HEAT-position (4).
- \( (Manual) \) ....... 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.
- \( (Swing) \) ....... The vane moves up and down intermittently.

**To change the horizontal airflow direction.**

Move the vertical vane manually before starting operation.

**Note:**

If the vertical vanes are adjusted, be sure to return the horizontal vanes to the original closed position.
### I-Save Operation

1. Press \[ \text{i-save} \] 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 \[ \text{i-save} \].
   - 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.

3. Press \[ \text{i-save} \] again to cancel i-save operation.
   - i-save operation also is cancelled when the MODE button is pressed.

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### ECONO COOL Operation

1. Press \[ \text{ECONO COOL} \] during COOL mode to start ECONO COOL operation.
   - The unit performs swing operation vertically in various cycles according to the temperature airflow.

2. Press \[ \text{ECONO COOL} \] again to cancel ECONO COOL operation.
   - ECONO COOL operation is also cancelled when the VANE button is pressed.

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### What is “ECONO COOL”?

Swing airflow (change of airflow) makes you feel cooler than stationary airflow. So, even though the set temperature is automatically set at 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 \[ \text{ON} \] or \[ \text{OFF} \] during operation to set the timer.
   - \[ \text{ON} \] (ON timer) : The unit turns ON at the set time.
   - \[ \text{OFF} \] (OFF timer) : The unit turns OFF at the set time.

2. Press \[ \text{↔} \] (Increase) and \[ \text{↕} \] (Decrease) to set the time of timer.
   - Each press increases or decreases the set time by 10 minutes.
   - \[ \text{ON} \] or \[ \text{OFF} \] blinks.
   - Make sure that the current time and day are set correctly.

3. Press \[ \text{ON} \] or \[ \text{OFF} \] again to cancel timer.

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**Note:**

- ON and OFF timers can be set together. \[ \text{i} \] 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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**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.

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**Note:**

When using the multi system MXZ-8A140, the temperature cannot be set to 10°C. Even if the temperature is set to 10°C, the air conditioner will operate at 16°C.
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. Make sure that the current time and day are set correctly.
2. Press to enter the weekly timer setting mode.
3. Press and to select setting day and number.
4. Press , , and to set ON/OFF, time, and temperature.

Pressing selects ON/OFF timer.
Pressing adjusts the time.
Pressing adjusts the temperature.
Pressing deletes timer setting.
5. Press to complete and transmit the weekly timer setting.

Pressing which was blinking goes out, and the current time will be displayed.

Checking weekly timer setting

1. Press to enter the weekly timer setting mode.
2. Press or to view the setting of the particular day or number.
3. Press to exit the weekly timer setting.

Note:
When all days of the week are selected to view the settings and a different setting is included among them, will be displayed.

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.

Note:
The saved settings will not be cleared when the weekly timer is turned OFF.

E.g. : Runs at 24°C from waking up to leaving home, and runs at 27°C from getting home to going to bed early on weekends.
Runs at 27°C from waking up late to going bed early on weekends.

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>6:00</td>
<td>8:00</td>
<td>6:00</td>
<td>8:00</td>
<td>6:00</td>
<td>8:00</td>
</tr>
<tr>
<td>27°C</td>
<td>24°C</td>
<td>23°C</td>
<td>22°C</td>
<td>21°C</td>
<td>20°C</td>
<td>19°C</td>
</tr>
</tbody>
</table>

Pressing selects the day of the week to be set.
Pressing selects the setting number.
* All days can be selected.
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.

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.

Front panel

1. Lift the front panel until a “click” is heard.
2. Close the front panel securely and press the positions indicated by the arrows.
3. Clean the front panel without detaching it from the unit.
   - Wipe with a soft dry cloth. A dedicated soft dry cloth is only provided with MSZ-EF**VAB type.
   - Use the dedicated SOFT DRY CLOTH. Parts Number MAC-101CC-E
   - Do not soak the front panel in water.

Air cleaning filter  
(Electrostatic anti-allergy enzyme filter, option)

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. Install all tabs of the air filter.

Every year:

- Replace it with a new air cleaning filter for best performance.
- Parts Number MAC-2320FT

Pull to remove from the air filter

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.

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

- The surface of the indoor unit is easily scratched, so never rub or hit the unit with something hard. Also, when installing or removing the front panel, handle it with care to prevent scratches on it.
- Do not use abrasive cleaner to prevent scratches on the surface of the indoor unit.
- It is very easy to get fingerprints on the surface of the indoor unit. When fingerprints are noticeable, gently wipe them off with a soft dry cloth.
- When using a commercially available chemical impregnated cloth, follow its instructions.
- Do not leave the front panel open for a prolonged time.
### 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>
</tbody>
</table>
| The unit cannot be operated. | - Is the breaker turned on?  
- Is the power supply plug connected?  
- Is the ON timer set?  
- Is the room voltage correct?  
- Is the ON/OFF timer set?  
- Are any buttons on the remote controller of other electric appliances being pressed? |
| The horizontal vane does not move. | - Are the horizontal vane and the vertical vane installed correctly?  
- Is the fan guard deformed?  
- When the breaker is turned on, the horizontal vanes’ position will be reset in about a minute. After the reset has completed, the normal horizontal vanes’ operation resumes. The same is true in the emergency cooling operation. |
| The unit cannot be operated for about 3 minutes when restarted. | - This protects the unit according to instructions from the microprocessor. Please wait. |
| The cooling air from the outdoor outlet of the indoor unit does not move. | - The cool air from the unit rapidly cools moisture in the air inside the room, and it turns into mist. |
| The airflow direction changes during operation. | - It is normal that the lower horizontal vane does not move when SWING is selected in COOL/DRY/FAN mode. |
| The air direction changes during operation. | - 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. |
| The direction of the horizontal vane cannot be adjusted with the remote controller. | - When a power failure occurs and the main power restarts, 3 short beeps will be heard. If the remote controller does not appear, 3 short beeps will be heard. |
| 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 hasn’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 control just before the shut-off of the main power. Refer to “Auto restart function” page 9. |
| The two horizontal vanes touch each other. The horizontal vanes are in an abnormal position. The horizontal vanes do not return to the correct “close position”. | - Perform one of the following.  
- Turn off and on the breaker. Make sure the horizontal vanes move to the correct “close position”.  
- When the room temperature deviates from the set temperature, the indoor fan starts running according to the settings on the remote controller. |
| In COOL/DRY mode, when the room temperature reaches near the set temperature, the outdoor unit stops, then the indoor unit operates at low speed. | - Although plastic turns yellow due to the influence of some factors such as ultra violet light and temperature, this has no effect on the product functions. |
| The indoor unit discolors over time. | - A small amount of refrigerant continues to flow into the indoor unit even though it is not operating. |
| Heating temperature is too low or when defrosting is being done, the horizontal vane is automatically set to horizontal position. | - 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. |
| **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 does not blow out soon in the heating operation. | - Please wait as the unit is preparing to blow out warm air. |
| The sound of water flowing in the indoor or outdoor unit. | - This is the sound of refrigerant or condensed water flowing in the unit. |
| Mechanical sound is heard. | - This is the switching sound in turning on/off the fan or the compressor. |
| The hissing sound is heard. | - This is the sound when the flow of refrigerant inside the unit is changed. |
| **Sound** | |
| Cracking 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. | - This is the sound of water flowing in the unit. |
| **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 is turned 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. |

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In the following cases, stop using the air conditioner and consult your dealer.  
- If water leaks or drips from the indoor unit.  
- If the left operation indicator lamp blinks.  
- If the breaker trips frequently.  
- If 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.  
- If 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.  
- If the operation of the air conditioner interferes with radio or TV reception. An amplifier may be required for the affected device.  
- If 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 favorable conditions for growth of fungi, such as mold.

2. Press \( \text{ON/OFF} \) 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 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.
- Sally 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></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>—</td>
</tr>
<tr>
<td>Lower limit</td>
<td>21°C DB</td>
<td>15°C WB</td>
</tr>
<tr>
<td>Heating</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper limit</td>
<td>27°C DB</td>
<td>—</td>
</tr>
<tr>
<td>Lower limit</td>
<td>20°C DB</td>
<td>—</td>
</tr>
</tbody>
</table>

* Note 1.

DB: Dry Bulb
WB: Wet Bulb

1. The MSZ-EF models have no specifications for single combination.
   These indoor system models are only for multi system air conditioner. As for the specifications of multi system, please confirm your dealer and/or refer to the catalogue.

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