Thank you very much for purchasing this Mitsubishi room air conditioner.

- To use this unit correctly and safely, be sure to read this operating instructions before use. Keep this manual carefully for later reference.
- Be sure to receive a guarantee card from your dealer and check that the purchased date and shop name, etc. are entered correctly.
- This air conditioner should not be installed by the customer. (Safety and performance functions cannot be assured.)
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.
- Stop using the air conditioner and consult your dealer in case any trouble or abnormality occurs.

Marks and their meanings

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

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.

After reading this manual, keep it together with the installation manual in a handy place for easy reference.

WARNING

Do not use intermediate connection of the power supply cord or the extension cord and do not connect many devices to one AC outlet.
- A fire or an electric shock may result from poor contact, poor insulation, exceeding the permissible current, etc.

Remove dirt from the power supply plug and securely insert the plug into the outlet.
- If dirt adheres to the plug or insertion is incomplete, it may cause a fire or an electric shock.

Do not scratch or process the power supply cord, etc.
- Do not put heavy object on the power supply cord and do not scratch or process the cord. The cord may be damaged and this may cause a fire or an electric shock.

Do not turn the breaker off/on and/or disconnect/connect the power supply plug during operation.
- This may cause a fire due to spark, etc.
- Be sure to turn off the breaker and/or disconnect the power supply plug absolutely after switching the indoor unit off with the remote controller.

Do not expose your skin directly to cool air for a long time.
- This could damage your health.

Installation, repairs or relocation should not be done by the customer.
- If this is done incorrectly, it may cause a fire, an electric shock, or injury from the unit falling, water leaking, 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.

Do not insert your finger or a stick, etc. into the air inlet/outlet.
- Since the fan rotates at high speed, this may cause an injury.
- Young children should be supervised to ensure that they do not play with the air conditioner.

When an abnormality (burning smell, etc.) occurs, stop the air conditioner and disconnect the power supply plug and/or turn off the breaker.
- If the unit continues to be operated in an abnormal condition, it may cause a fire, trouble, etc. In this case, consult your dealer.

CAUTION

When the air filter is to be removed, do not touch the metal part of the indoor unit.
- This may cause an injury.

Do not touch the air inlet or aluminum fin of the outdoor unit.
- This may cause an injury.

Do not put a vase or glass on the indoor unit.
- Water dropping into the indoor unit may deteriorate the insulation, causing electric shock.

Do not use an insecticide or flammable spray.
- This may cause a fire or deformation of the cabinet.

Do not put a pet or houseplant where it will be exposed to direct airflow.
- This could injure the pet or plant.

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

Do not leave the unit on an installation stand which is damaged.
- The unit may fall and this may cause an injury.

Do not step onto an unstable bench when maintaining the unit, etc.
- This may cause an injury, etc. if you fall down.

Do not pull the power supply cord.
- The core wire of the power supply cord may be disconnected and this may cause a fire.

Do not charge or disassemble the batteries and do not throw them into a fire.
- This may result in leakage, fire or an explosion.

Do not operate the unit for a long time in high humidity, e.g. leaving a door or window open.
- In the cooling mode, if the unit is operated in a room with high humidity (80% RH or more) for a long time, water condensed in the air conditioner may drop and wet or damage furniture, etc.
SAFETY PRECAUTIONS

CAUTION

Do not use the unit for special purposes.
- Do not use this air conditioner to preserve precision devices, food, animals, plants and art objects. This may cause deterioration of quality, etc.
Do not put a stove, etc. where they are exposed to direct airflow.
- This may cause imperfect combustion.

When the unit is to be cleaned, switch it off and disconnect the power supply plug and/or turn off the breaker.
- Since the fan rotates at high speed during operation, this may cause an injury.
When the unit is not going to be used for a long time, disconnect the power supply plug and/or turn off the breaker.
- Otherwise, dirt may collect and this may cause a fire.
Replace the 2 batteries with new ones of same type.
- Using an old battery together with a new one may result in heat generation, leakage or an explosion.
If liquid from the batteries gets onto your skin or clothes, wash it well with clean water.
- If liquid from the batteries gets into your eyes, wash them well with clean water and consult a doctor at once.
Ventilate well in using the unit with a stove, etc.
- An oxygen shortage may occur.
Do not operate switches with wet hands.
- This may cause an electric shock.
Do not clean the air conditioner with water or put a vase or glass on it.
- Water may enter the unit and degrade the insulation. This may cause an electric shock.
Do not step or put anything on the indoor/outdoor unit.
- This may cause an injury, etc. if you or something falls down.

For installation

WARNING

- Consult your dealer for installation of the air conditioner. Since special techniques and work are required, installation should not be done by the customer. If this is done incorrectly, it may cause a fire, an electric shock, injury or water leaking.

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

CAUTION

Earth the unit.
- Do not connect the earth to a gas pipe, water pipe, lightning rod or the earth of a telephone. If the earthing is incorrect, it may cause an electric shock.
Install an earth leakage breaker depending on the place where the air conditioner is to be installed (humid places, etc.).
- If the earth leakage breaker is not installed, it may cause an electric shock.
Drain should be fully drained.
- If the drainage route is incomplete, water may drop from the unit. This may wet and damage the furniture.

NAME OF EACH PART

Indoor unit

Outdoor unit
NAME OF EACH PART

Remote controller

- Signal transmitting section
- Operation display section
- ON/OFF (operate/stop) button
- Temperature buttons
- Operation select button
- Fan speed control button
- ECONO COOL button
- RESET button
- Off-timer button
- On-timer button
- HR button
- MIN button
- CLOCK set button
- Vane control button

Open the front lid.

NOTE
Use the remote controller provided with the unkit only. Do not use other remote controller.

(Please see the diagram shows an overall view.)

PREPARATION BEFORE OPERATION

Auto restart function

These models are equipped with an auto restart function. If you do not want to use this function, please consult the service representative because the setting of the unit needs to be changed.

Auto restart function is ...
When the indoor unit is controlled with the remote controller, the operation mode, the set temperature and the fan speed are stored in the memory. If a power failure occurs or the main power is turned off during operation, “Auto restart function” sets automatically to start operating in the same mode as the one set with the remote controller just before the shut-off of the main power. (Refer to page 6 for details.)

Power supply

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

WARNING:
Remove dirt from the power supply plug and insert the plug securely. If dirt adheres to the plug or insertion is incomplete, it may cause a fire or an electric shock.

Remote controller

How to set the type

This remote controller setting needs to be switched according to the type of air conditioner (COOL & HEAT or COOL ONLY). If the setting is incorrect, the air conditioner does not operate normally. Therefore, check if the setting corresponds to the type of your air conditioner. If it does not, correct the setting as shown below.

<table>
<thead>
<tr>
<th>Type</th>
<th>COOL &amp; HEAT</th>
<th>COOL ONLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position of the slide switch</td>
<td>H-C</td>
<td>H-C</td>
</tr>
</tbody>
</table>
PREPARATION BEFORE OPERATION

Remote controller

How to set the batteries and the current time

1 Remove the front lid and insert batteries. Then reattach the front lid.

Insert the minus pole of the batteries first. Check if the polarity of the batteries is correct.

2 Press the RESET button.

Press using a thin stick.

• If the RESET button is not pressed, the remote controller may not operate correctly.

3 Press the CLOCK set button.

Press using a thin stick.

4 Press the and buttons (TIME SET buttons) to set the current time.

• Each time the button is pressed, the set time increases by 1 hour, and each time the button is pressed, the set time increases by 1 minute.

5 Press the CLOCK set button again and close the front lid.

Handling of the remote controller

• The range that the signal can reach is about 6 m when the remote controller is pointed at the front of the indoor unit.

• When a button is pressed, one or two beeps will be heard from the indoor unit. If no sound is heard, operate again.

• Use the remote controller carefully. If it is dropped, thrown or it gets wet, the remote controller may not operate.

• Since the display on the remote controller is made of liquid crystal (glass), it may not light up if it is damaged from falling.

• Refer to page 10 when the indoor unit does not respond to the remote control signal.

When installing on a wall, etc.

• Install the remote controller holder in a position where the signal reception sound (beep) can be heard from the indoor unit when the button is pressed.

How to install/remove the remote controller

Installing: Insert the remote controller downward.
Removing: Pull it up.

Dry-cell batteries

Reference for replacing batteries
Replace the batteries with new AAA alkaline batteries in the following cases:

• When the indoor unit does not respond to the remote control signal.

• When the display on the remote controller becomes dim.

• When a button of the remote controller is pressed, all displays appear on the screen, and then disappear immediately.

• Do not use manganese batteries. The remote controller could malfunction.

• The service life of an alkaline battery is about 1 year. However, a battery whose time limit is approaching may be exhausted soon. The recommended usable time limit is indicated (month/year) on the bottom of the battery.

• To prevent liquid leakage, take out all batteries when the remote controller is not going to be used for a long time.

CAUTION:

If liquid from the batteries gets onto your skin or clothes, wash it well with clean water and consult a doctor at once.

• Do not use rechargeable batteries.

• Replace the 2 batteries with new ones of the same type.

• Dispose of exhausted batteries in the correct manner.

When the remote controller cannot be used (emergency operation)

When the batteries of the remote controller run out or the remote controller malfunctions, the emergency operation can be done using the EMERGENCY OPERATION switch.

COOL & HEAT type

1 Press the EMERGENCY OPERATION switch.

• Each time the EMERGENCY OPERATION switch is pressed, the unit will operate in order of EMERGENCY COOL MODE, EMERGENCY HEAT MODE and STOP MODE.

2 To stop the EMERGENCY OPERATION, press the EMERGENCY OPERATION switch once (in case of EMERGENCY HEAT MODE) or twice (in case of EMERGENCY COOL MODE).

COOL ONLY type

1 Press the EMERGENCY OPERATION switch.

• When the EMERGENCY OPERATION switch is pressed, the unit will operate in test run for 30 minutes at first and then the operation mode shifts to EMERGENCY COOL MODE.

• Details of EMERGENCY COOL MODE are as shown below. However, the temperature control does not work for 30 minutes in test run and the unit is set to continuous operation. The fan speed is set to High in test run and shifts to Medium after 30 minutes.

<table>
<thead>
<tr>
<th>Operation mode</th>
<th>COOL</th>
<th>HEAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set temperature</td>
<td>24°C</td>
<td>24°C</td>
</tr>
<tr>
<td>Fan speed</td>
<td>Medium</td>
<td>Medium</td>
</tr>
<tr>
<td>Horizontal vane</td>
<td>Auto</td>
<td>Auto</td>
</tr>
</tbody>
</table>

• The operation mode is indicated by the Operation Indicator lamp on the indoor unit as following figure.

[Operation Indicator lamp]

EMERGENCY COOL
Operation Indicator

EMERGENCY HEAT
Operation Indicator

STOP
Operation Indicator

2 To stop the EMERGENCY COOL MODE, press the EMERGENCY OPERATION switch again.

Each time the switch is pressed, the operation mode alternates between the EMERGENCY COOL MODE and STOP MODE.
I FEEL.... AUTO OPERATION

With the “(I FEEL...)” auto operation mode, the optimum room condition can be set automatically with a one-touch operation.

To start operation:

■ Press the button.

When the “(I FEEL...)” mode is selected, the air conditioner is automatically controlled at the optimum temperature.

To stop operation:

■ Press the button.

If you feel slightly warm:

■ Press the button to lower the temperature.

One press lowers the temperature by about 1°C.

If you feel slightly cool:

■ Press the button to raise the temperature.

One press raises the temperature by about 1°C.

When “(I FEEL...)” is not selected, press the button until it is set.

Each time the button is pressed, the operation mode is changed in sequence: (I FEEL...) → (COOL) → (DRY) → (HEAT/FAN)

---

Description of “AUTO RESTART FUNCTION”

- These units are equipped with an auto restart function. When the main power is turned on, the air conditioner will start operation automatically in the same mode as the one set with the remote controller before the shutoff of the main power.
- If the unit was set to off with the remote controller before the shutoff of the main power, it will remain stopped even after the main power is turned on.
- If the unit was in the emergency operation before the shutoff of the main power, it will start operation, when main power comes on, in the same mode as the one set with the remote controller before the emergency operation.
- If the unit is operated in “I FEEL...” mode before power failure, the operation mode (COOL, DRY or HEAT) is not stored in the memory. When the main power is turned on, the unit decides the operation mode by the initial room temperature at restart and starts operation again.

---

Description of “I FEEL...” mode

Details of operation

According to the room temperature when the operation starts, the operation mode is automatically set to COOL, DRY or HEAT. However, when operation is started again within 2 hours after it is stopped, the same operation mode before the operation is stopped is selected. The operation mode selected first is not changed even if the room temperature changes. If the operation mode does not match the room condition, select the appropriate operation mode by pressing the button.

Details of auto operation

<table>
<thead>
<tr>
<th>Room temperature when started</th>
<th>COOL &amp; HEAT type</th>
<th>COOL ONLY type</th>
</tr>
</thead>
<tbody>
<tr>
<td>About 25°C or higher</td>
<td>COOL</td>
<td>COOL</td>
</tr>
<tr>
<td>About 25°C - 23°C</td>
<td>DRY</td>
<td>DRY</td>
</tr>
<tr>
<td>About 23°C or lower</td>
<td>HEAT</td>
<td>DRY</td>
</tr>
</tbody>
</table>

NOTE:

COOL: When the room temperature is 2°C higher than the set temperature, the set temperature may not be changed since the air conditioner is operating to reach the target (set) temperature. In this case, please wait until the room temperature drops to within 2°C of the set temperature and then change the set temperature.

HEAT: When the room temperature is 2°C lower than the set temperature, the set temperature may not be changed since the air conditioner is operating to reach the target (set) temperature. In this case, please wait until the room temperature rises to within 2°C of the set temperature and then change the set temperature.

Details of display on the indoor unit

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

Operation Indicator

<table>
<thead>
<tr>
<th>Lighted</th>
<th>Blinking</th>
<th>Not lighted</th>
</tr>
</thead>
<tbody>
<tr>
<td>This shows that the air conditioner is operating to reach the target temperature. Please wait until the target temperature is obtained.</td>
<td>This shows that the room temperature is approaching the target temperature.</td>
<td>—</td>
</tr>
</tbody>
</table>

(In case of outdoor unit MXZ series only)

Please refer to Information for multi system air conditioner. (Page 7)
MANUAL OPERATION (COOL, DRY, HEAT/FAN)

To select the COOL, DRY or HEAT/FAN mode:

1. Press the button.
2. Select the operation mode by pressing the MODE button.
   Each time this button is pressed, the operation mode is changed in sequence:
   (I FEEL...) → (COOL) → (DRY) → (HEAT/FAN)

HEAT/FAN mode
Check the type of the air conditioner.

<table>
<thead>
<tr>
<th>Type</th>
<th>Operation mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOL &amp; HEAT</td>
<td>HEAT</td>
</tr>
<tr>
<td>COOL ONLY</td>
<td>FAN</td>
</tr>
</tbody>
</table>

To stop operation:

Press the button.

After the operation mode is set once, the operation starts in the same mode as the one set previously from the next time by simply pressing the button.

When the set temperature is to be changed:

- Press the button to lower the temperature. One press lowers the temperature by about 1°C.
- Press the button to raise the temperature. One press raises the temperature by about 1°C.

In HEAT operation

- If the air conditioner absorbs too much heat from the air, it may be overloaded. Following a judgement made by the microprocessor, the fan in the outdoor unit is automatically stopped to protect the air conditioner.
- When the outdoor unit’s fan is stopped, frost may form on the outdoor unit, but this is not a problem.

In DRY operation

- The temperature control (temperature setting) cannot be done.
- The room temperature is slightly lowered in this operation mode.

The details of the display on the indoor unit are explained on page 6.

NOTE:
When the ambient temperature is too high, the room temperature may not reach the set temperature since the unit operates to cool the room under a high load.

Information for multi system air conditioner (Outdoor unit: MXZ series)

Multi system air conditioner (Outdoor unit: MXZ series) can connect two or more indoor units with one outdoor unit. According to the capacity, two or more units can operate simultaneously.

- When you try to operate two or more indoor units with one outdoor unit simultaneously, one for the cooling and the other for heating, the operation mode of the indoor unit that operates earlier is selected. The other indoor units that will start the operation later cannot operate, indicating an operation state. (Refer to the table of Operation Indicator lamp on page 6.) In this case, please set all the indoor units to the same operation mode.
- When indoor units start the operation while the defrosting of outdoor unit is being done, it takes a few minutes (max. 10 minutes) to blow out the warm air.
- In the heating operation, the indoor unit that does not operate may get warm or the sound of refrigerant flowing may be heard. This is not a malfunction since the refrigerant continuously flows into the indoor unit that does not operate.

Description of “AUTO RESTART FUNCTION”

Refer to page 6.

MANUAL OPERATION (COOL, DRY, HEAT/FAN)

To select the COOL, DRY or HEAT/FAN mode:

1. Press the button.
2. Select the operation mode by pressing the MODE button.
   Each time this button is pressed, the operation mode is changed in sequence:
   (I FEEL...) → (COOL) → (DRY) → (HEAT/FAN)

HEAT/FAN mode
Check the type of the air conditioner.

<table>
<thead>
<tr>
<th>Type</th>
<th>Operation mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOL &amp; HEAT</td>
<td>HEAT</td>
</tr>
<tr>
<td>COOL ONLY</td>
<td>FAN</td>
</tr>
</tbody>
</table>

To stop operation:

Press the button.

After the operation mode is set once, the operation starts in the same mode as the one set previously from the next time by simply pressing the button.

When the set temperature is to be changed:

- Press the button to lower the temperature. One press lowers the temperature by about 1°C.
- Press the button to raise the temperature. One press raises the temperature by about 1°C.

In HEAT operation

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- When the outdoor unit’s fan is stopped, frost may form on the outdoor unit, but this is not a problem.

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- The room temperature is slightly lowered in this operation mode.

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- When indoor units start the operation while the defrosting of outdoor unit is being done, it takes a few minutes (max. 10 minutes) to blow out the warm air.
- In the heating operation, the indoor unit that does not operate may get warm or the sound of refrigerant flowing may be heard. This is not a malfunction since the refrigerant continuously flows into the indoor unit that does not operate.

Description of “AUTO RESTART FUNCTION”

Refer to page 6.

AIR FLOW VELOCITY AND DIRECTION ADJUSTMENT

Air flow velocity and direction can be selected as required.

To change the AIR FLOW velocity, press the button.

Each time the button is pressed, the fan speed is changed in sequence:
- (Low) → (Med.) → (High) → (AUTO)
  • Use the (High) notch to cool/heat the room more.
  • If the operating sound of the air conditioner disturbs your sleep, use the (Low) notch.

To change the AIR FLOW blowing direction vertically, press the button.

Each time the button is pressed, the angle of the horizontal vane is changed in sequence: (1) → (2) → (3) → (4) → (5) → (SWING) → (AUTO)

SWING OPERATION
Use the swing operation for the air flow to reach all corners of the room.

NOTE:
- In the cooling operation, when the air conditioner is operated with setting the horizontal vane to (4) or (5) for 1 hour, the AIR FLOW direction is automatically set to horizontal to prevent condensed water from dropping.
- Adjust the vertical AIR FLOW direction using the remote controller. Moving the horizontal vane manually, can cause trouble.
- In the heating operation, if the air flow temperature is too low or when defrosting is being done, the horizontal vane position is set to (1).

Auto air flow direction control operation

When the AUTO mode is selected with the button, the position of the horizontal vane is automatically set to correspond to the operation mode for effective operation.

(1) HEAT
- When the air flow temperature is too low, the air is blown out horizontally.
- When the air flow temperature rises, the air is blown out downwards.

(2) COOL, DRY
The air is blown out horizontally.

(3) FAN
The air is blown out downwards.

To change the horizontal direction of the air flow, move the vertical vane manually.

Adjust the vane before operation starts.
Since the horizontal vane moves automatically, your fingers may be caught.
ECONO COOL OPERATION

Use this operation when you want to be comfortable in COOL mode even with energy saved.

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.

As these models are equipped with an auto restart function, the air conditioner starts operating with timer cancelled at the same time that power is restored.

NOTE:
• If the current time has not been set, the timer operation cannot be used.
• When AUTO START/STOP timer is active, the timer operation cannot be used.

TIMER OPERATION (ON/OFF TIMER)

It is convenient to set the timer when you go to bed, when you get home, when you get up, etc.

How to set the ON timer
1 Press the button during operation.
Each time the button is pressed, the ON timer mode alternates between ON and OFF.

2 Set the time of the timer using the and buttons.
Each time the button is pressed, the set time increases by 1 hour; each time the button is pressed, the set time increases by 10 minutes.

To release the ON timer:
1 Press the button.

How to set the OFF timer
1 Press the button during operation.
Each time the button is pressed, the OFF timer mode alternates between ON and OFF.

2 Set the time of the timer using the and buttons.
Each time the button is pressed, the set time increases by 1 hour; each time the button is pressed, the set time increases by 10 minutes.

To release the OFF timer:
1 Press the button.

Programming timer operation
The ON timer and the OFF timer can be used in combination. The timer of the set time that is reached first will operate first.

(• mark indicates the order of timer operations.)
• If the current time has not been set, the timer operation cannot be used.

NOTE:
If the main power is turned off or a power failure occurs while AUTO START/STOP timer is active, the timer setting is cancelled. As these models are equipped with an auto restart function, the air conditioner starts operating with timer cancelled at the same time that power is restored.

WHEN THE AIR CONDITIONER IS NOT GOING TO BE USED FOR A LONG TIME

Before starting maintenance
1 Turn off the breaker and/or disconnect the power supply plug.

Cleaning the indoor unit
1 Clean the unit using a soft dry cloth.

When the air conditioner is not going to be used for a long time:
1 Perform the FAN operation for 3 or 4 hours to dry the inside of the air conditioner.

When the air conditioner is to be used again:
1 Clean the air filter and install it in the indoor unit.

When the air conditioner is to be used:
1 Check that the earth is connected correctly.

CAUTION:
Do not connect the earth to a gas pipe, water pipe, lightning rod or the earth of a telephone. If the earthing is incorrect, it may cause an electric shock.

COOL ONLY type:
• Select the FAN mode. (Refer to page 7.)

To perform FAN operation, set the remote controller to the highest temperature in the MANUAL COOL mode. (Refer to page 7.)

CAUTION:
When the unit is to be cleaned, switch it off and disconnect the power supply plug when the air conditioner is not going to be used for a long time. Dirt may collect and this may cause a fire.

CAUTION:
To prevent liquid leakage, take out all batteries when the remote controller is not going to be used for a long time.

MAINTENANCE
CLEANING THE AIR FILTER (CATECHIN)

Cleaning the air filter (about once every 2 weeks)

1. Remove the air filter.

Open the front panel, then remove/replace the filter.

Air filter
Remove.

CAUTION
When the air filter is to be removed, do not touch the metal parts of the indoor unit. This may cause an injury.

2. Remove dirt from the air filter using a vacuum cleaner or by washing the filter with water.
   - If the dirt is noticeable, wash the filter with a solution of mild detergent diluted in lukewarm water.
   - If hot water (50°C or more) is used, the filter may be deformed.

3. After washing with water/lukewarm water, dry the air filter well in the shade.
   - Do not expose the air filter to direct sunlight or heat from a fire when drying it.

Air filter
Remove.

Install the air filter.

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 restrains the activity of the viruses adhering to the filter.

REPLACEMENT OF THE AIR CLEANING FILTER

When the capacity is lowered because of dirt, etc., it is necessary to replace the air cleaning filter.

Air cleaning filter replacement (about once every 4 months)

1. Remove the air filter.

Air filter
Remove.

2. Remove the air cleaning filter (White bellows type).

Air cleaning filter
Remove.

3. Install a new air cleaning filter.

Air cleaning filter
Install.

4. Install the air filter and securely close the front panel.

Air cleaning filter
Install.

- If the air cleaning filter is clogged, it may lower the unit’s capacity or cause condensation at the air outlet.
- The air cleaning filter is disposable. The standard usable term is about 4 months. However, if the colour of the filter turns to dark brown, replace the filter at once.

Optional parts
Optional parts are available from your local dealer.

<table>
<thead>
<tr>
<th>Name of parts</th>
<th>AIR CLEANING FILTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parts number</td>
<td>MAC-1300FT</td>
</tr>
</tbody>
</table>
### BEFORE CONTACTING THE SERVICE REPRESENTATIVE, CHECK THE FOLLOWING AGAIN

<table>
<thead>
<tr>
<th>Question</th>
<th>Check points or Remedy</th>
</tr>
</thead>
</table>
| The air conditioner cannot be operated. | - Is the breaker turned on?  
- Is the fuse blown?  
- Is the ON timer set? (Page 8) |
| The room cannot be cooled or heated sufficiently. | - Is the temperature setting correct? (Page 7)  
- Is the filter clean? (Page 9)  
- Are there any obstacles blocking the air inlet or outlet of the indoor or outdoor unit?  
- Is a window or door open? |
| The air from the indoor unit smells strange. | - Is the filter clean? (Page 9)  
- Are the batteries exhausted? (Page 5)  
- Is the polarity (+, -) of the batteries correct? (Page 5)  
- Are any buttons on the remote controller of other electric appliances being pressed? |
| The display on the remote controller does not appear or it is dim. The indoor unit does not respond to the remote control signal. | - Does the air conditioner start operating again?  
If the air conditioner had operated before the power failure, as these models are equipped with an auto restart function, the air conditioner should start operating again. (Refer to Description of ‘AUTO RESTART FUNCTION’ on page 6.) |
| When a power failure occurs. | - Does the air conditioner start operating again?  
If the air conditioner had operated before the power failure, as these models are equipped with an auto restart function, the air conditioner should start operating again. (Refer to Description of ‘AUTO RESTART FUNCTION’ on page 6.) |

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

In the following cases, stop using the air conditioner and consult your dealer.
- When water leaks from the indoor unit.
- When the left operation indicator lamp blinks.
- When the breaker trips frequently.
- The remote control signal may not be received in a room where an electronic ON/OFF type fluorescent lamp (inverter-type fluorescent lamp, etc.) is used.
- Operation of the air conditioner may interfere with radio or TV reception in areas where the reception is weak. An amplifier may be required for the affected device.
- When thunder is heard, stop operation and disconnect the power supply plug or turn off the breaker. Otherwise, the electrical parts may be damaged.

### WHEN YOU THINK THAT TROUBLE HAS OCCURRED

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer (not a malfunction)</th>
</tr>
</thead>
<tbody>
<tr>
<td>The air conditioner cannot be operated for about 3 minutes when restarted.</td>
<td>- This protects the air conditioner according to instructions from the microprocessor. Please wait.</td>
</tr>
<tr>
<td>Cracking sound is heard.</td>
<td>- This sound is generated by the expansion/contraction of the front panel, etc. due to change in temperature.</td>
</tr>
<tr>
<td>The air from the indoor unit smells strange.</td>
<td>- The air conditioner may suck in an odor adhering to the wall, carpet, furniture, cloth, etc. and blow it out with the air.</td>
</tr>
<tr>
<td>The fan stops during the DRY operation.</td>
<td>- In DRY operation, the unit operates using the same refrigerant circuit as in COOL operation. DRY operation time has to be reduced in order to lower humidity without much room temperature decreasing. So the compressor sometimes stops and at the same time the indoor fan stops. This prevents water condensed on the heat exchanger from evaporating again.</td>
</tr>
</tbody>
</table>
| The sound of water flowing is heard. | - This is the sound of refrigerant flowing inside the air conditioner.  
- This is the sound of condensed water flowing in the heat exchanger.  
- This is the sound of the heat exchanger defrosting. |
| The sound as bubbling is heard. | - This sound is heard when the outside air is absorbed from the drain hose in turning on the range hood or the ventilation fan and that makes water flowing in the drain hose sucked up. This sound is also heard when the outside air blows into the drain hose in case the outside wind is strong. |
| The room cannot be cooled 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 air temperature is high, the cooling effect may not be sufficient. |
| Mist is discharged from the air outlet of the indoor unit. | - The cool air from the air conditioner rapidly cools moisture in the air inside the room, and it turns into mist. |
| Mechanical sound is heard from the indoor unit. | - This is the switching sound in turning on/off the fan or the compressor. |

### Question | Answer (not a malfunction) |
|----------|---------------------------|
| The air flow direction changes during operation. | - When the air conditioner is operated in COOL or DRY mode, if the operation continues with air blowing down for 1 hour, the direction of the air flow is automatically set to horizontal to prevent condensed water from dropping.  
- In the heating operation, if the air flow temperature is too low or when defrosting is being done, the horizontal vane position is automatically set to horizontal. |
| 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, the defrosting operation makes water frozen on the outdoor unit melt and drip down.  
- In the heating operation, water drips from the heat exchanger. This is not a malfunction. However, if you have any trouble with water dripping, consult your dealer for drainage work. Please note that we cannot provide drainage work in such climate that the outdoor unit may get frosted. |
| White smoke is discharged from the outdoor unit. | - In the heating operation, vapor generated by the defrosting operation looks like white smoke. |
| Air does not blow out soon in the heating operation. | - Please wait as the air conditioner is preparing to blow out warm air. |
| The operation is stopped for about 10 minutes in the heating operation. | - Defrosting of the outdoor unit is being done (Defrosting operation).  
Since this is completed in 10 minutes, please wait. (When the external temperature is too low and humidity is too high, frost is formed.) |
| Hissing sound is sometimes heard. | - This is the sound when the flow of refrigerant inside the air conditioner is switched. |
| The room cannot be heated sufficiently. | - When the outside air temperature is low, the heating effect may not be sufficient. |
| In a multi-unit 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. |
| The air conditioner starts the operation only with the main power turned on, though you do not operate the unit with the remote controller. | - These models are equipped with an auto restart function. When the main power is turned off without stopping the air conditioner with the remote controller and is turned on again, the air conditioner will start operation automatically in the same mode as the one set with the remote controller just before the shutoff of the main power. |
## INSTALLATION, RELOCATION AND INSPECTION

### Installation place

Avoid installing the air conditioner in the following places.
- Where flammable gas could leak.

**CAUTION:**
Do not install the unit where flammable gas could leak. If gas leaks and collects around the unit, it may cause an explosion.
- Where there is much machine oil.
- Salty places such as the seaside.
- Where sulphide 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 unit will be buried in snow.
- Inside the mobile vehicles such as a crane truck, ship, etc.
- Drain the water from the unit to the soil which has good drainage.
- Cooling and heating capacity may get lowered 10% in the places where poor ventilation and short cycle of air exchange is likely to occur.

**WARNING:**
If the air conditioner operates but does not cool or heat (depending on model) the room, consult your dealer since there may be a refrigerant leak. Be sure to ask the service representative whether there is refrigerant leakage or not when repairs are carried out.

### Electrical work

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

**WARNING:**
- The customer should not install this unit.
- If installation is done incorrectly, it may cause a fire, an electric shock, or injury from the unit falling, water leaking, etc.
- Do not use intermediate connection of the power supply cord or the extension cord and do not connect many devices to one AC outlet.
- A fire or an electric shock may result from poor contact, poor insulation, exceeding the permissible current, etc.

Consult your dealer.

### Guaranteed operating range

<table>
<thead>
<tr>
<th></th>
<th>Indoor</th>
<th>Outdoor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cooling</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper limit</td>
<td>32°C DB</td>
<td>43°C DB</td>
</tr>
<tr>
<td></td>
<td>23°C WB</td>
<td>—</td>
</tr>
<tr>
<td>Lower limit</td>
<td>21°C DB</td>
<td>21°C DB</td>
</tr>
<tr>
<td></td>
<td>15°C WB</td>
<td>—</td>
</tr>
<tr>
<td><strong>Heating</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper limit</td>
<td>27°C DB</td>
<td>24°C DB</td>
</tr>
<tr>
<td></td>
<td>—</td>
<td>18°C WB</td>
</tr>
<tr>
<td>Lower limit</td>
<td>20°C DB</td>
<td>-10°C DB</td>
</tr>
<tr>
<td></td>
<td>—</td>
<td>-11°C WB</td>
</tr>
</tbody>
</table>

**CAUTION:**
- Earth the unit.
- Do not connect the earth to a gas pipe, water pipe, lightning rod or the earth of a telephone. If the earthing is incorrect, it may cause an electric shock.
- Install an earth leakage breaker depending on the place where the air conditioner is to be installed (humid places, etc.). If the earth leakage breaker is not installed, it may cause an electric shock.

### Inspection and maintenance

- When the air conditioner is used for several seasons, the capacity may be lowered due to dirt inside the unit.
- Depending on the condition, an odor may be generated or dehumidified water may not drain out smoothly due to dirt, dust, etc. This may cause water leakage from the unit.
- It is recommended that the unit be inspected and maintained (charged) by specialist in addition to normal maintenance. Consult your dealer.

### Operating sound considerations

- Do not put an object around the air outlet of the outdoor unit. This may lower the capacity or increase the volume of the operating sound.
- If an abnormal sound is heard during operation, consult your dealer.
- Choose the place which endures the unit weight enough and does not amplify the unit vibration.

### Relocation

- When the air conditioner is to be removed or re-installed because of rebuilding, moving, etc., special techniques and work are required.

**WARNING:**
Repairs or relocation should not be done by the customer. If this is done incorrectly, it may cause a fire, an electric shock, or an injury from the unit falling, water leaking, etc. Consult your dealer.

### Disposal

To dispose of this product, consult your dealer.

If you have any questions, consult your dealer.