



**INDOOR UNIT** 

MSZ-AP15VGD MSZ-AP20VGD



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## Safety Precautions

## Meanings of Symbols Displayed on Indoor Unit and/or Outdoor Unit

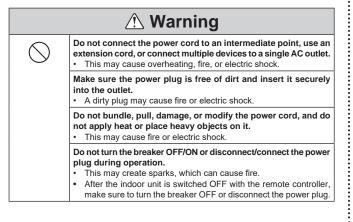
	WARNING (Risk of fire) This unit uses a flammable refrigerant. If refrigerant leaks and comes in contact with fire or heating part, it will create harmful gas and there is risk of f			
	Read the OPERATING INSTRUCTIONS carefully before operation.			
	Service personnel are required to carefully read the OPERATING INSTRUCTIONS and INSTALLATION MANUAL before operation.			
i	Further information is available in the OPERATING INSTRUCTIONS, INSTALLATION MANUAL, and the like.			

- 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

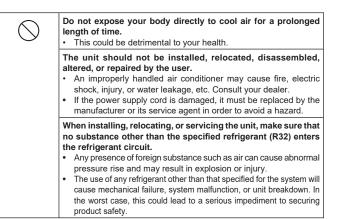
🖄 WARNING :	Incorrect handling could cause serious hazard, such as
	death, serious injury, etc. with a high probability.
A	Incorrect handling could cause serious hazard depending

CAUTION : Incorrect handling could cause serious hazard depending on the conditions.

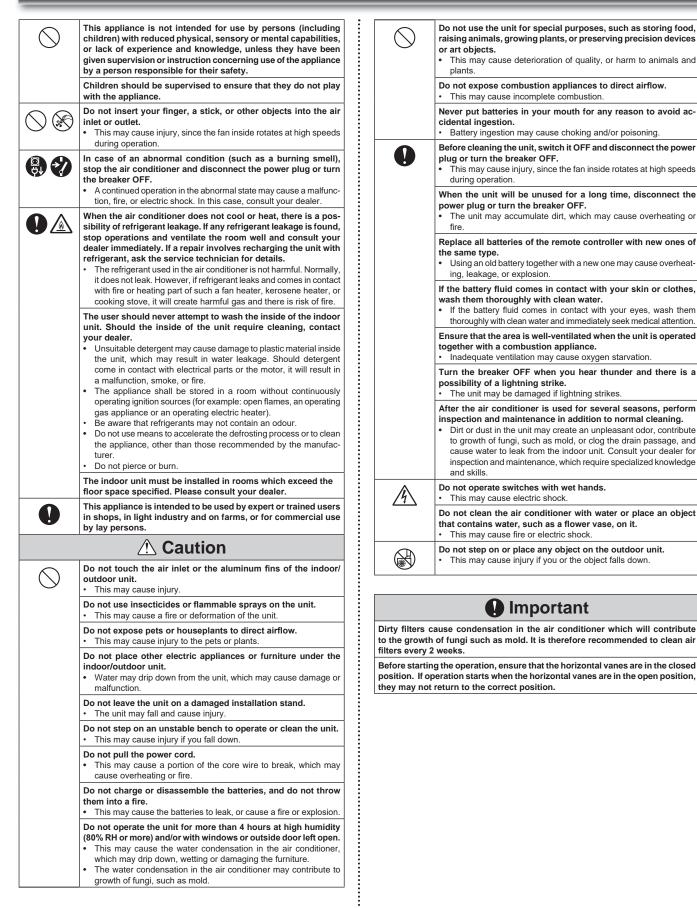


### Meanings of Symbols Used in This Manual

- S : Be sure not to do.
- Be sure to follow the instruction.
- $\overline{\$}$  : 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.
- : Risk of fire.



## Safety Precautions



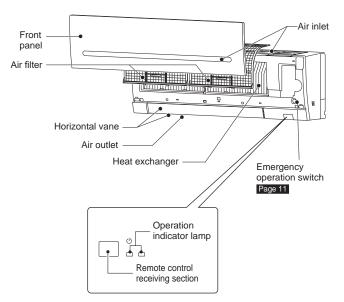
# Safety Precautions

## For Installation

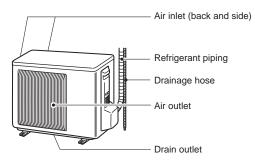
Consult your dealer for installing the air conditioner.
<ul> <li>It should not be installed by the user since installation requires specialized knowledge and skills. An improperly installed air con- ditioner may cause water leakage, fire, or electric shock.</li> </ul>
<ul> <li>Provide a dedicated power supply for the air conditioner.</li> <li>A non-dedicated power supply may cause overheating or fire.</li> </ul>
<ul> <li>Do not install the unit where flammable gas could leak.</li> <li>If gas leaks and accumulates around the outdoor unit, it may cause an explosion.</li> </ul>
<ul> <li>Earth the unit correctly.</li> <li>Do not connect the earth wire to a gas pipe, water pipe, lightning rod, or a telephone earth wire. Improper earthing may cause electric shock.</li> </ul>
▲ Caution
<ul> <li>Install an earth leakage breaker depending on the installation location of the air conditioner (such as highly humid areas).</li> <li>If an earth leakage breaker is not installed, it may cause electric shock.</li> </ul>
<ul> <li>Ensure that the drain water is properly drained.</li> <li>If the drain passage is improper, water may drip down from the indoor/outdoor unit, wetting and damaging the furniture.</li> </ul>

## Name of Each Part

## **Indoor Unit**



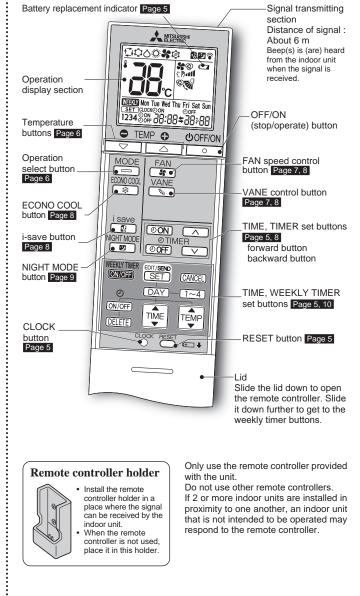
## **Outdoor Unit**



Outdoor units may be different in appearance.

## **Remote Controller**

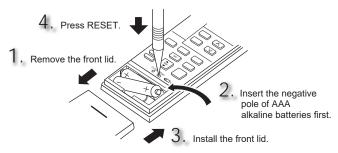
.....



## reparation Before Operation

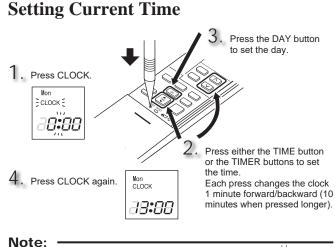
Before operation: Insert the power supply plug into the power outlet and/or turn the breaker on.

## **Installing The Remote Controller Batteries**



### Note:

- 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.
- The battery replacement indicator lights up when the battery is running low. In about 7 days after the indicator starts lights up, the remote controller stops working.
- 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.



Press CLOCK gently using a thin instrument.



#### Note:

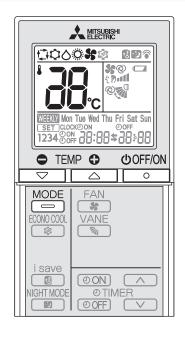
#### How to set remote controller exclusively for a particular indoor unit A maximum of 4 indoor units with wireless remote controllers can be used in a room.

To operate the indoor units individually with each remote controller, assign a number to each remote controller according to the number of the indoor unit. This setting can be set only when all the following conditions are met:

- The remote controller is powered OFF
- (1) Hold down  $1 \sim 4$  button on the remote controller for 2 seconds to enter the
- pairing mode.
  (2) Press 1~4 button again and assign a number to each remote controller. Each press of  $1\sim4$  button advances the number in the following order: 1  $\rightarrow$  $2 \rightarrow 3 \rightarrow 4$
- (3) Press SET button to complete the pairing setting.

After you turn the breaker ON, the remote controller that first sends a signal to an indoor unit will be regarded as the remote controller for the indoor unit. Once they are set, the indoor unit will only receive the signal from the assigned remote controller afterwards.

## Selecting Operation Modes



Press  $\bigcirc$  to start the operation.

Press boot to select operation mode. Each press changes mode in the following order:

Press  $\bigcirc$  or  $\bigcirc$  to set the temperature. Each press raises or lowers the temperature by 1°C.

Press  $\bigcirc$  to stop the operation.

The same setting is selected the next time by simply pressing

### 🖓 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 $\leftrightarrow$ HEAT) when the room temperature is about 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.

## Ô Dr<u>y Mode</u>

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

### <sup>O</sup> Heat Mode

Enjoy warm air at your desired temperature.

### Se Fan Mode

Circulate the air in your room.

#### Note: -

After COOL/DRY mode operation, it is recommended to operate in the FAN mode to dry inside the indoor unit.

### Note:

#### Multi system operation

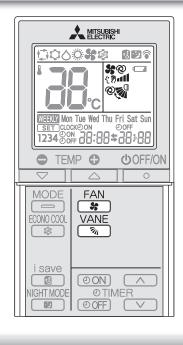
Two or more indoor units can be operated by one outdoor unit. When several indoor units are operated simultaneously, cooling and heating operations cannot be done at the same time. When COOL is selected with one unit and HEAT with another or vice versa, the unit selected last goes into standby mode.

#### **Operation indicator lamp**

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

Indication	Operation state	Room temperature
<del>※</del> ※	The unit is operating to reach the set temperature	About 2°C or more away from set tem- perature
<u></u>	The room temperature is approach- ing the set temperature	About 1 to 2°C from set temperature
<del>淤</del> ※	Standby mode (only during multi system operation)	—
⊯ Lit	柒 Blinking o Not lit	

## Fan Speed And Airflow Direction Adjustment



### Fan Speed

Press FAN to select fan speed. Each press changes fan speed in the following order:

- → O → C → O →  $\rule{O}$  →
- 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.

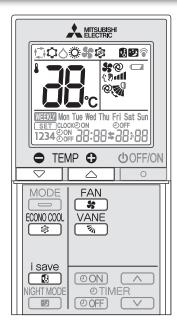
### Note:

### 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.

**Up-Down Airflow Direction** Press  $\overline{\mathbb{F}_{2}}$  to select airflow direction. Each press changes airflow direction in the following order: (AUTO) (AUTO).......The vane is set to the most efficient airflow direction. COOL/ DRY:horizontal position. HEAT:position (5). (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 moving to the unward position after 0.5 to 1 hour to prevent moves to the upward position after 0.5 to 1 hour to prevent any condensation from dripping. (Swing).......The vane moves up and down intermittently. • 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 13 Left-Right Airflow Direction ■ To change the horizontal airflow direction. Move the vertical vane manually before starting operation. Note: If the vertical vanes are adjusted while the unit is not operating, be sure to return the horizontal vanes to the original closed position.

## I-SAVE Operation



- i-save operation cannot be set on the weekly timer.

### Press B during COOL, ECONO COOL, NIGHT MODE operation, or HEAT mode to select i-save mode.

#### Set the temperature, fan speed, and airflow direction.

- The same setting is selected from the next time by simply pressing  $\frac{1}{182 V}$  .
- 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.

i save

Press 🔝 again to cancel i-save operation.

· i-save operation also is canceled when the MODE button is pressed.

#### Note:

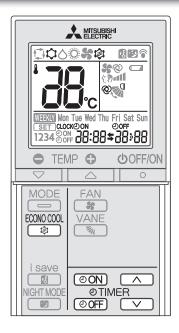
Example of use:

1. Low energy mode Set the temperature 2°C to 3°C warmer in COOL and cooler in HEAT mode.

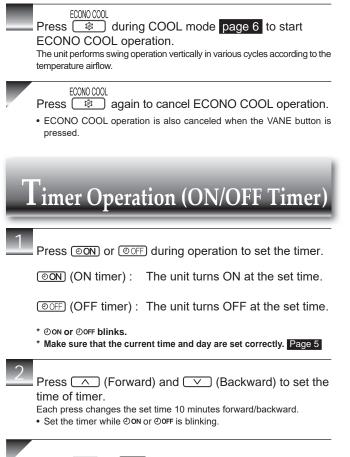
This setting is suitable for unoccupied room, and while you are sleeping. 2. Saving frequently used settings

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.

## **ECONO COOL Operation**



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

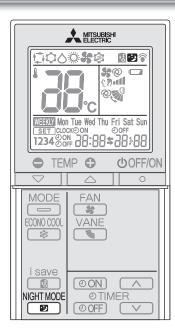


Press ON or OFF again to cancel timer.

#### Note:

- ON and OFF timers can be set together. \$\$ mark indicates the order of timer operations.
- If power failure occurs while ON/OFF timer is set, see page 11 "Auto restart function".

## **NIGHT MODE Operation**



NIGHT MODE operation changes the brightness of the operation indicator, disables the beep sound and limits the noise level of the outdoor unit.

### NIGHT MODE

Press D during operation to activate NIGHT MODE operation.

- The operation indicator lamp dims.
- The beep sound will be disabled except that emitted when the operation is started or stopped.
- · Noise level of the outdoor unit will be lower than that mentioned in SPECIFICATIONS.



Press ( ) again to cancel NIGHT MODE operation.

\*\*\*\*\*\*\*\*\*

#### Note:

- ٠ Noise level of the outdoor unit may not change after start-up of the unit, during the protection operation, or depending on other operating conditions.
- The fan speed of the indoor unit will not change.
- .
- The operation indicator lamp will be hard to be seen in a bright room. Operating POWERFUL operation during NIGHT MODE operation will increase the noise level of the outdoor unit.
- Noise level of the outdoor unit will not decrease during Multi system operation.

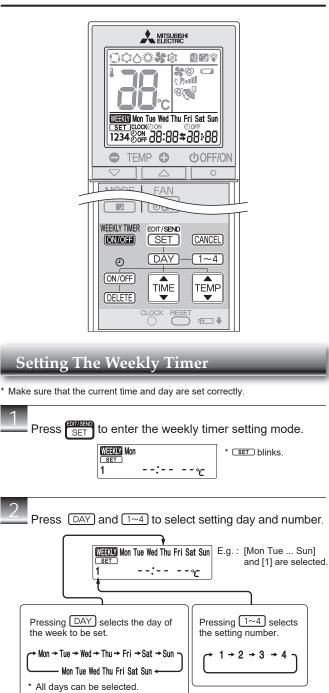
# Weekly Timer Operation

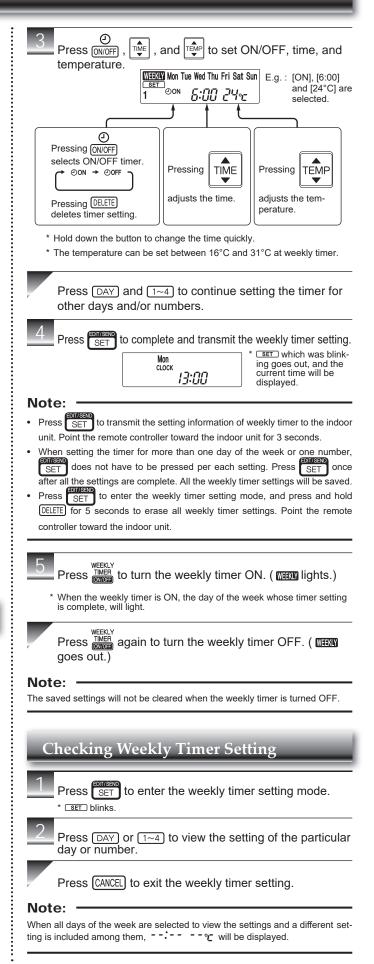
A maximum of 4 ON or OFF timers can be set for individual days of the week
A maximum of 28 ON or OFF timers can be set for a week.

E.g. : Runs at 24°C from waking up to leaving home, and runs at 27°C from getting home to going to bed on weekdays. Runs at 27°C from waking up late to going bed early on weekends.				
Mon	Setting1	Setting2	Setting3	Setting4
NION	ON	OFF	ON	OFF
(	24	°C	:	27°C
Fri	6:00	8:30	17:30	22:00
Sat		Setting1		Setting2
,		ON		OFF
· ·			27°C	
Sun	•	8:00		21:00

### Note:

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





## ${\sf D}$ emand Response And Indoor Unit Operation (Demand Type Only)

#### Demand response

This unit has the demand response capability which is compliant with AS/NZS 4755.3.1.

To activate this function, you need to make a contract with remote agents such as electric supply company, then this unit should be connected to the demand response enabling devise (DRED). For further information, consult your dealer.

The demand response represents the automated alteration of an electrical product's normal mode of operation in response to an initiating signal originating from or defined by a remote agent.

#### This unit supports 3 Demand Response Modes (DRMs).

DRM	Description of operation in this mode	Operation indicator lamp	
DRIVI	Description of operation in this mode	🔆 Lit o Not lit	
DRM 1	Compressor off The air conditioner does not perform cooling or heating opera- tion during the demand response event.		
DRM 2	The air conditioner continues to perform cooling or heating operation during the demand response event, but the electrical energy consumed by the air conditioner in a half hour period is not more than 50% of the total electrical energy that would be consumed if operating at the rated capacity in a half hour period.	Upper lamp is lit. * Lower lamp blinks.	
DRM 3	The air conditioner continues to perform cooling or heating operation during the demand response event, but the electrical energy consumed by the air conditioner in a half hour period is not more than 75% of the total electrical energy that would be consumed if operating at the rated capacity in a half hour period.	2.5 sec 0.5 sec 2.5 sec 2.5 sec	

#### Note:

• DRM is automatically activated or released according to the signals from DRED.

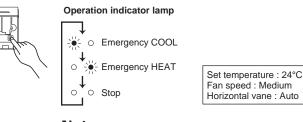
- DRM cannot be invalidated or changed manually.
- · You might feel this unit does not sufficiently perform cooling or heating operation during DRM.
- Operation settings can be changed as usual with the remote controller during DRM. However, you might not feel cool or warm enough as DRM is prioritized.
- The indication for the demand response will be functioning only when the outdoor unit which is compatible with the demand response is connected.

# 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:



#### 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.

## Auto Restart Function

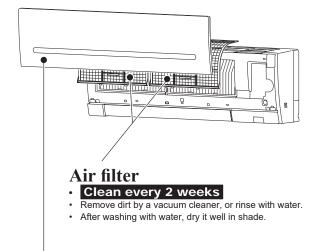
If a power failure occurs or the main power is turned off during operation, "Auto restart function" automatically starts operation in the same mode as the one set with the remote controller just before the shutoff of the main power. When timer is set, timer setting is cancelled and the unit starts operation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



### Instructions:

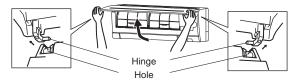
- Switch off the power supply or turn off the breaker before cleaning. . .
- Be careful not to touch the metal parts with your hands. Do not use benzine, thinner, polishing powder, or insecticide. Use only diluted neutral detergents. Do not use a scrubbing brush, a hard sponge, or the like.
- .
- Do not soak or rinse the horizontal vane.
- •
- Do not use water hotter than 50°C. Do not expose parts to direct sunlight, heat, or fire to dry. Do not apply excessive force on the fan as it may cause cracks or breakage.





- Clean the filters regularly for best performance and to
- 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.

## **Front Panel**



- 1. Lift the front panel until a "click" is heard.
- 2. Hold the hinges and pull to remove as shown in the illustration above.
  - · Wipe with a soft dry cloth or rinse it with water. • Do not soak it in water for more than two hours.
  - Dry it well in shade. •
- 3. Install the front panel by following the removal
- procedure in reverse. Close the front panel securely and press the positions indicated by the arrows.



## ${f W}$ hen You Think That Trouble Has Occurred

••••••

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

Symptom	Explanation & Check Points
Indoor Unit	
The unit cannot be operated.	<ul> <li>Is the breaker turned on?</li> <li>Is the power supply plug connected?</li> <li>Is the ON timer set? Page 8</li> </ul>
The horizontal vane does not move.	<ul> <li>Are the horizontal vane and the vertical vane installed correctly?</li> <li>Is the fan guard deformed?</li> <li>When the breaker is turned on, the horizontal vanes' position will be reset in about a minute. After the reset has completed, the normal hori- zontal vanes' operation resumes. The same is true in the emergency cooling operation.</li> </ul>
The unit cannot be operated for about 3 minutes when restarted.	This protects the unit according to instruc- tions from the microprocessor. Please wait.
Mist is discharged from the air outlet of the indoor unit.	<ul> <li>The cool air from the unit rapidly cools moisture in the air inside the room, and it turns into mist.</li> </ul>
The swing operation of the HORIZONTAL VANE is suspended for a while, then restarted.	This is for the swing operation of the HORI- ZONTAL VANE to be performed normally.
The airflow direction changes during operation. The direction of the horizontal vane cannot be adjusted with the remote controller.	<ul> <li>When the unit is operated in COOL or DRY mode, if the operation continues with air blow- ing down for 0.5 to 1 hour, the direction of the airflow is automatically set to upward position to prevent water from condensing and dripping.</li> <li>In the heating operation, if the airflow tem- perature is too low or when defrosting is be- ing done, the horizontal vane is automatically set to horizontal position.</li> </ul>
The operation stops for about 10 minutes in the heating operation.	<ul> <li>Outdoor unit is in defrost.</li> <li>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.)</li> </ul>
The unit starts operation by itself when the main power is turned on, but hasn't received sign from the remote control- ler.	These models are equipped with an auto re- start 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- ler just before the shutoff of the main power. Refer to "Auto restart function". Page 11
The indoor unit discolors over time.	<ul> <li>Although plastic turns yellow due to the influ- ence of some factors such as ultraviolet light and temperature, this has no effect on the product functions.</li> </ul>
Multi System	
The indoor unit which is not operating becomes warm and a sound, similar to water flow- ing, is heard from the unit.	<ul> <li>A small amount of refrigerant continues to flow into the indoor unit even though it is not operating.</li> </ul>
When heating operation is selected, operation does not start right away.	When operation is started during defrosting of outdoor unit is done, it takes a few minutes (max. 10 minutes) to blow out warm air.
Outdoor Unit	
The fan of the outdoor unit does not rotate even though the compressor is running. Even if the fan starts to rotate, it stops soon.	When the outside temperature is low during cooling operation, the fan operates intermittently to maintain sufficient cooling capacity.
Water leaks from the outdoor unit.	<ul> <li>During COOL and DRY operations, pipe or pipe connecting sections are cooled and this causes water to condense.</li> <li>In the heating operation, water condensed on the heat exchanger drips down.</li> <li>In the heating operation, the defrosting operation makes ice forming on the outdoor unit melt and drip down.</li> </ul>
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.	<ul> <li>Are the batteries exhausted? Page 5</li> <li>Is the polarity (+, -) of the batteries correct? Page 5</li> <li>Are any buttons on the remote controller of other electric appliances being pressed?</li> </ul>

Symptom	Explanation & Check Points
Does Not Cool or Heat	
The room cannot be cooled or heated sufficiently.	<ul> <li>Is the temperature setting appropriate? Page 6</li> <li>Is the fan setting appropriate? Please change fan speed to High or Super High. Page 7</li> <li>Are the filters clean? Page 12</li> <li>Is the fan or heat exchanger of the indoor unit clean?</li> <li>Are there any obstacles blocking the air inlet or outlet of the indoor or outdoor unit?</li> <li>Is a window or door open?</li> <li>It may take a certain time to reach the setting temperature or may not reach that depending on the size of the room, the ambient temperature, and the like.</li> </ul>
The room cannot be cooled sufficiently.	<ul> <li>When a ventilation fan or a gas cooker is used in a room, the cooling load increases, resulting in an insufficient cooling effect.</li> <li>When the outside temperature is high, the cooling effect may not be sufficient.</li> </ul>
The room cannot be heated sufficiently.	• When the outside temperature is low, the heating 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.
Airflow	
The air from the indoor unit smells strange.	<ul> <li>Are the filters clean? Page 12</li> <li>Is the fan or heat exchanger of the indoor unit clean?</li> <li>The unit may suck in an odor adhering to the wall, carpet, furniture, cloth, etc. and blow it out with the air.</li> </ul>
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.	<ul> <li>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.</li> </ul>
Mechanical sound is heard from the indoor unit.	• This is the switching sound in turning on/off the fan or the compressor.
The sound of water flowing is heard.	• This is the sound of refrigerant or condensed water flowing in the unit.
Hissing sound is sometimes heard.	• This is the sound when the flow of refrigerant inside the unit is changed.
Timer	
Weekly timer does not oper- ate according to settings.	<ul> <li>Is the ON/OFF timer set? Page 8</li> <li>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. Page 10</li> <li>When a power failure occurs and the main power turns off, the indoor unit built-in clock will be incorrect. As a result, the weekly timer may not work normally. Be sure to place the remote controller where the signal can be received by the indoor unit. Page 4</li> </ul>
The unit starts/stops the operation by itself.	Is the weekly timer set? Page 10

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

When water leaks or drips from the indoor unit.

- When the left operation indicator lamp blinks.
- When the breaker trips frequently.

••••••••••••

- The remote control signal is not received in a room where an electronic ON/
  OFF type fluorescent lamp (inverter-type fluorescent lamp, etc.) is used.
- Operation of the air conditioner interferes with radio or TV reception. An amplifier may be required for the affected device.
- When an abnormal sound is heard.
- · When any refrigerant leakage is found.

## When The Air Conditioner is Not Going To be Used For a Long Time

Operate by COOL mode with the highest temperature set or FAN mode for 3 to 4 hours. Page 6

- This dries the inside of the unit.
- Moisture in the air conditioner contributes to growth of fungi, such as mold.

Press  $\bigcirc 00FF/0N$  to stop the operation.

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

Remove all batteries from the remote controller.

## When Using The Air Conditioner Again:

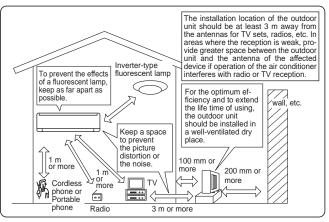
1	Clean the air filter. Page 12
2	Check that the air inlet and outlet of the indoor and outdoor units are not blocked.
3	Check that the earth is connected correctly.
4	Refer to the "PREPARATION BEFORE OPERATION",

and follow the instructions. Page 5

## 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 hot spring, sewage, waste water.
- Where oil is splashed or where the area is filled with oily smoke (such as cooking areas and factories, in which the properties of plastic could be changed and damaged).
- Where there is high-frequency or wireless equipment.
- Where the air from the outdoor unit air outlet is blocked.
- Where the operation sound or air from the outdoor unit bothers the house next door.
  The mounting height of indoor unit 1.8 m to 2.3 m is recommended. If it is impossible, please consult your dealer.
- Do not operate the air conditioner during interior construction and finishing work, or while waxing the floor. Before operating the air conditioner, ventilate the room well after such work is performed. Otherwise, it may cause volatile elements to adhere inside the air conditioner, resulting in water leakage or scattering of dew.
- The indoor unit must be installed in rooms which exceed the floor space specified. Please consult your dealer.



## **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

		Indoor	Outdoor
	Upper limit	32°C DB	46°C DB
Cooling		23°C WB	—
Cooling	Lower limit	21°C DB	-10°C DB
		15°C WB	—
Heating	Linn or linsit	27°C DB	24°C DB
	Upper limit	—	18°C WB
	Lower limit	20°C DB	-15°C DB
		—	-16°C WB

DB: Dry Bulb WB: Wet Bulb

## MITSUBISHI ELECTRIC CORPORATION

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