SPLIT-TYPE AIR CONDITIONERS

INDOOR UNIT

MSZ-EF22VGW  MSZ-EF25VGW  MSZ-EF35VGW  MSZ-EF42VGW  MSZ-EF50VGW
MSZ-EF22VGB  MSZ-EF25VGB  MSZ-EF35VGB  MSZ-EF42VGB  MSZ-EF50VGB
MSZ-EF22VGS  MSZ-EF25VGS  MSZ-EF35VGS  MSZ-EF42VGS  MSZ-EF50VGS
MSZ-EF22VGKW MSZ-EF25VGKW MSZ-EF35VGKW MSZ-EF42VGKW MSZ-EF50VGKW
MSZ-EF22VGKB MSZ-EF25VGKB MSZ-EF35VGKB MSZ-EF42VGKB MSZ-EF50VGKB
MSZ-EF22VGKS MSZ-EF25VGKS MSZ-EF35VGKS MSZ-EF42VGKS MSZ-EF50VGKS

OPERATING INSTRUCTIONS

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

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

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.

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.
● ○ ○ ○ ○ ○ ○ : Risk of fire.
● ○ ○ ○ ○ ○ ○ ○ : Never touch with wet hand.
● ○ ○ ○ ○ ○ ○ ○ ○ : Never splash water on the unit.

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

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

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

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

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

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

When installing, relocating, or servicing the unit, make sure that no substance other than the specified refrigerant (R32) enters the refrigerant circuit.
• Any presence of foreign substance such as air can cause abnormal pressure rise and may result in explosion or injury.
• The use of any refrigerant other than that specified for the system will cause mechanical failure, system malfunction, or unit breakdown. In the worst case, this could lead to a serious impediment to securing product safety.
SAFETY PRECAUTIONS

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

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

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

When the air conditioner does not cool or heat, there is a possibility of refrigerant leakage. If any refrigerant leakage is found, stop operations and ventilate the room well and consult your dealer immediately. If a repair involves recharging the unit with refrigerant, ask the service technician for details.
- The refrigerant used in the air conditioner is not harmful. Normally, it does not leak. However, if refrigerant leaks and comes in contact with fire or heating part of such a fan heater, kerosene heater, or cooking stove, it will create harmful gas and there is risk of fire.

The user should never attempt to wash the inside of the indoor unit. Should the inside of the unit require cleaning, contact your dealer.
- Unsuitable detergent may cause damage to plastic material inside the unit, which may result in water leakage. Should detergent come in contact with electrical parts or the motor, it will result in a malfunction, smoke, or fire.
- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Be aware that refrigerants may not contain an odour.
- Do not use means to accelerate the defrosting process or to clean the appliance, other than those recommended by the manufacturer.
- Do not pierce or burn.

This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.

CAUTION

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

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

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

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

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

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

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

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

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

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, lightning rod, or a telephone earth 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.

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For Wi-Fi interface

**WARNING**
This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Do not use the Wi-Fi interface nearby the medical electrical equipment or people who have a medical device such as a cardiac pacemaker or an implantable cardioverter-defibrillator.
- It can cause an accident due to malfunctions of the medical equipment or device.

Do not install the Wi-Fi interface nearby the automatic control devices such as automatic doors or fire alarms.
- It can cause malfunctions.

Do not touch the Wi-Fi interface with wet hands.
- It can cause damage to the device, electric shock, or fire.

Do not splash water on the Wi-Fi interface or use it in a bathroom.
- It can cause damage to the device, electric shock, or fire.

When the Wi-Fi interface is dropped, or the holder or cable is damaged, disconnect the power supply plug or turn the breaker OFF.
- It may cause fire or electric shock. In this case, consult your dealer.

This device complies with all Australia and New Zealand regulations for EMC and electrical safety.

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**CAUTION**
Do not step on unstable stepstool to set up or clean the Wi-Fi interface.
- It may cause injury if you fall down.

Do not use the Wi-Fi interface nearby other wireless devices, microwaves, cordless phones, or facsimiles.
- It can cause malfunctions.
NAME OF EACH PART

Indoor unit

Remote controller

Battery replacement indicator

Operation display section

Temperature buttons

Operation select button

ECONO COOL button

FAN speed control button

VANE control button

TIME, TIMER set buttons

Reset button

CLOCK button

Lid

Slide the lid down to open the remote controller. Slide it down further to get to the weekly timer buttons.

Remote controller holder

Only use the remote controller provided with the unit. Do not use other remote controllers. If 2 or more indoor units are installed in proximity to one another, an indoor unit that is not intended to be operated may respond to the remote controller.

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OPERATING INSTRUCTIONS

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 the negative pole of AAA alkaline batteries first.
3. Install the front lid.
4. Press RESET.

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. 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 changes the clock 1 minute forward/backward (10 minutes when pressed longer).
3. Press the DAY button to set the day.
4. Press CLOCK again.

Note:
- 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 the button on the remote controller for 2 seconds to enter the pairing mode.
2. Press the button again and assign a number to each remote controller. Each press of the button advances the number in the following order: 1 → 2 → 3 → 4.
3. Press the button to complete the pairing setting.
After turning 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

1 Press \(\text{OFF/FON} \) to start the operation.

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

\[
\begin{array}{c}
\text{(AUTO)} \\
\text{(COOL)} \\
\text{(DRY)} \\
\text{(HEAT)} \\
\text{(FAN)}
\end{array}
\]

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

Press \(\text{OFF/FON} \) to stop the operation.

\(\text{ AUTO mode (Auto change over) }\)

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 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).

\(\text{ COOL mode }\)

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.
**Operational Instructions**

### Fan Speed and Airflow Direction Adjustment

**Fan Speed**

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

- **(Auto)**
- **(Quiet)**
- **(Low)**
- **(Med.)**
- **(High)**
- **(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.

**Up-down Airflow Direction**

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

- \( \text{(Auto)} \)...........
The vane is set to the most efficient airflow direction. COOL/DRY/FAN:horizontal position. HEAT:position (4).
- \( \text{(Manual)} \)............For efficient air conditioning, select the upper position for COOL/DRY, and the lower position for HEAT. If the lower position is selected during COOL/DRY, the vane automatically moves to the upward position after 0.5 to 1 hour to prevent any condensation from dripping.
- \( \text{(Swing)} \).............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 11.

**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, be sure to return the horizontal vanes to the original closed position.
**I-SAVE OPERATION**

- A simplified set back function enables to recall the preferred (preset) setting with a single push of the button. Press the button again and you can go back to the previous setting in an instance.
- i-save operation cannot be set on the weekly timer.

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.

**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.

1. Press \( \text{ECONO COOL} \) during COOL mode page 6 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.

**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.

   * \( \text{ON} \) or \( \text{OFF} \) blinks.
   * Make sure that the current time and day are set correctly.

2. Press \( \text{forward} \) and \( \text{backward} \) to set the time of timer.
   - Each press changes the set time 10 minutes forward/backward.
   - \( \text{ON} \) or \( \text{OFF} \) is blinking.
   - Set the timer while \( \text{ON} \) or \( \text{OFF} \) is blinking.

3. Press \( \text{ON} \) or \( \text{OFF} \) again to cancel timer.

**Note:**
- ON and OFF timers can be set together. \( \mathbf{2} \) mark indicates the order of timer operations.
- If power failure occurs while ON/OFF timer is set, see page 10 “Auto restart function”.

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WE ekly Timer Operation

**OPERATING INSTRUCTIONS**

- 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
- **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.

**Weekly timer operation**

<table>
<thead>
<tr>
<th>Day</th>
<th>Setting1</th>
<th>Setting2</th>
<th>Setting3</th>
<th>Setting4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon</td>
<td>ON</td>
<td>6:00</td>
<td>OFF</td>
<td>8:30</td>
</tr>
<tr>
<td>Wed</td>
<td>OFF</td>
<td>17:30</td>
<td>OFF</td>
<td>22:00</td>
</tr>
<tr>
<td>Fri</td>
<td>ON</td>
<td>8:30</td>
<td>27°C</td>
<td>21:00</td>
</tr>
<tr>
<td>Sun</td>
<td>OFF</td>
<td>8:30</td>
<td>27°C</td>
<td>22:00</td>
</tr>
</tbody>
</table>

#### Setting the weekly timer

1. Press **SET** to enter the weekly timer setting mode.
   - **NOTE:**
   - Make sure that the current time and day are set correctly.

2. Press **DAY** and **1~4** to select setting day and number.
   - **NOTE:**
   - All days can be selected.

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

4. Press **SET** to complete and transmit the weekly timer setting.
   - **NOTE:**
   - Press **SET** to transmit the setting information of weekly timer to the indoor unit. Point the remote controller toward the indoor unit for 3 seconds.
   - When setting the timer for more than one day of the week or one number, **SET** does not have to be pressed per each setting. Press **SET** once after all the settings are complete. All the weekly timer settings will be saved.
   - Press **SET** to enter the weekly timer setting mode, and press and hold **EXIT** for 5 seconds to erase all weekly timer settings. Point the remote controller toward the indoor unit.

5. Press **ON** or **OFF** to turn the weekly timer ON. (**LED** lights.)
   - **Note:**
   - When the weekly timer is ON, the day of the week whose timer setting is complete, will light.
   - Press **ON** again to turn the weekly timer OFF. (**LED** goes out.)

#### Checking weekly timer setting

1. Press **SET** to enter the weekly timer setting mode.
   - **NOTE:**
   - The saved settings will not be cleared when the weekly timer is turned OFF.

2. Press **DAY** or **1~4** to view the setting of the particular day or number.

3. Press **CANCEL** 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, **- - - - - - °C** will be displayed.
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:

- Operation indicator lamp
  - 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.

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 shut-off 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.
**OPERATING INSTRUCTIONS**

### Cleaning

**Instructions:**
- Switch off the power supply or turn off the breaker before cleaning.
- Be careful not to touch the metal parts with your hands.
- Do not use benzine, thinner, polishing powder, or insecticide.
- Use only diluted mild detergents.
- Do not 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.

**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

**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.

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**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***VGB type.
   - Use the dedicated SOFT DRY CLOTH. Parts Number: MAC-1001CL-E
   - Do not soak the front panel in 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.
This Wi-Fi interface communicates the status information and controls the commands from the server by connecting to the indoor unit.

Wi-Fi interface introduction

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>MODE Button</td>
<td>Selects modes</td>
</tr>
<tr>
<td>2</td>
<td>RESET Button</td>
<td>Resets the system and ALL settings</td>
</tr>
<tr>
<td>3</td>
<td>ERR LED (Orange)</td>
<td>Shows the network error state</td>
</tr>
<tr>
<td>4</td>
<td>NET LED (Green)</td>
<td>Shows the network state</td>
</tr>
<tr>
<td>5</td>
<td>MODE LED (Orange)</td>
<td>Shows the Access Point Mode state</td>
</tr>
<tr>
<td>6</td>
<td>UNIT LED (Green)</td>
<td>Shows the indoor unit state</td>
</tr>
</tbody>
</table>

(1) MODE Button

- **WPS-Push mode <For a router with a WPS button>**
  - **[To enter the mode]**
    - Hold down the MODE Button for 2 seconds.
  - **[LED indication]**
    - When WPS-Push is enabled on the Wi-Fi interface, the MODE LED starts flashing orange (every second).
  - **[To cancel the mode]**
    - Hold down the RESET Button for 2 seconds to return to the initial state.

- **Access Point mode <For a router without a WPS button and to set up with a smartphone>**
  - **[To enter the mode]**
    - Hold down the MODE Button for 7 seconds.
  - **[LED indication]**
    - When Access Point mode is enabled on the Wi-Fi interface, the MODE LED starts flashing orange (every 5 seconds).
  - **[To cancel the mode]**
    - Hold down the MODE Button for 7 seconds again and ensure that the MODE LED is no longer flashing.

In any mode, the NET LED will flash when the Wi-Fi interface is connected to the Router.

(2) RESET Button

- Hold down the RESET Button for 2 seconds to reboot the system.
- Hold down the RESET Button for 14 seconds to initialise the Wi-Fi interface to the factory default.

**Note:**
When the Wi-Fi interface is reset to the factory default, ALL the configuration information will be lost. Take great care in implementing this operation.

**Information for users**

The following steps explain how to connect the Wi-Fi interface to a Router.

1. Ensure the Wi-Fi interface is connected correctly as per the previous section, ‘Connecting the Wi-Fi interface’. UNIT LED should be flashing green only.

2. Download and install Wi-Fi Control App to your compatible Apple or Android smartphone/tablet (search term: Mitsubishi Wi-Fi Control).

**THERE ARE TWO OPTIONS OF CONNECTING**

**Option 1 - Access Point Mode Pairing**

3. Activate Access Point Mode on your Wi-Fi interface by using a small object to press and hold the MODE Button for 7 seconds.

4. When Access Point Mode is enabled on the Wi-Fi interface, MODE LED starts flashing orange (every 5 seconds). Complete the setting up in the Access Point Mode within 10 minutes.

5. Scan the matrix barcode from the label on the back of the interface to connect to its network.
   If you can’t connect this Wi-Fi interface, check the label on the back of the interface for the SSID.
   Open the Wi-Fi network screen on your smartphone/tablet and connect to the network with the same name as the SSID. The network password, labelled KEY, is just under the SSID on the interface. You will now be connected to this Wi-Fi interface.

6. Open Wi-Fi Control App and follow the ‘How to Setup’ instructions in the ‘Setup Wi-Fi interface’ section. If the app does not go to this section, you are not connected to the Wi-Fi interface’s Access Point; please start process again.
   You can either select your available Wi-Fi Network, or manually configure a Wi-Fi Network.
**OPERATING INSTRUCTIONS**

**Wi-Fi INTERFACE SETTING UP (VGK TYPE ONLY)**

7. Once completed, the MAC and ID will be filled in 'Add new unit'. Select 'Add' and then control your heat pump via Wi-Fi.

9. Open Wi-Fi Control App. Enter MAC and ID into 'Add new unit' and select 'Add'.

10. Once completed, control your heat pump via Wi-Fi.

---

**Option 2 - WPS-Push Pairing**

- Please Note: The WPS and Router reset buttons may be similar on some Routers.
- Please exercise caution as resetting your Router will erase network configuration.

3. Check Wi-Fi and WPS are enabled on your Router. The connection procedure varies depending on your Router – refer to your Router’s manual for more information.

4. Activate WPS Mode on your Router. This will be enabled for a set period allowing approximately 2 minutes to complete the next step. To do so, please refer to your Router’s manual.

5. Activate WPS on your Wi-Fi interface by using a small object to press and hold the MODE Button for 2 seconds.

6. When WPS-Push is enabled on the Wi-Fi interface, MODE LED starts flashing orange (every second).

7. When pairing process is completed on the Wi-Fi interface, the NET LED lights up solid green for 5 seconds.

8. If ERR LED lights up orange for 5 seconds at any stage, there may be a problem; please start process again.

---

**LED Pattern**

<table>
<thead>
<tr>
<th>Description</th>
<th>ERR (Orange)</th>
<th>NET (Green)</th>
<th>MODE (Orange)</th>
<th>UNIT (Green)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Software initialising</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Firmware updating</td>
<td>○</td>
<td>●</td>
<td>●</td>
<td>○</td>
</tr>
<tr>
<td>Firmware downloading</td>
<td>○</td>
<td>● (every second)</td>
<td>● (every second)</td>
<td>○</td>
</tr>
<tr>
<td>Reset to the factory default</td>
<td>○</td>
<td>○</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Wireless setting</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Access Point Mode activated</td>
<td>○</td>
<td>○</td>
<td>● (every 5 sec)</td>
<td>○</td>
</tr>
<tr>
<td>WPS-Push Mode activated</td>
<td>○</td>
<td>○</td>
<td>● (every second)</td>
<td>○</td>
</tr>
<tr>
<td>Pairing process via WPS</td>
<td>○</td>
<td>● (5 sec)</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Pairing process via WPS</td>
<td>●</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Connection to server in progress</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communicating with server, and starting up indoor unit communication</td>
<td>○</td>
<td>● (*1)</td>
<td>○</td>
<td>●</td>
</tr>
<tr>
<td>Communicating with server, and communicating with indoor unit</td>
<td>○</td>
<td>● (*1)</td>
<td>○</td>
<td>● (every 5 sec)</td>
</tr>
<tr>
<td>Normal operation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communicating with server, and communicating with indoor unit</td>
<td>○</td>
<td>● (every 5 sec)</td>
<td>○</td>
<td>● (every 5 sec)</td>
</tr>
</tbody>
</table>

(*1) Details of flash pattern:
- Every 0.5 sec: Searching for server.
- Every second: Registering the information of the Wi-Fi interface to server.
- Every 5 sec: Communicating with server.
Wi-Fi INTERFACE SETTING UP (VGK TYPE ONLY)

Troubleshooting

[Image of Troubleshooting chart]

Check the following first in the cases listed in the above table.

• Make sure that the communication distance is not too far between the Wi-Fi interface and the Router.
• Make sure 2.4GHz is enabled on dual band Routers.
• Make sure that DHCP is enabled, or check IP address settings of the Wi-Fi interface.

(*) Details of flash pattern

• Every 0.5 sec:
  IP address setting is invalid. Make sure that DHCP is enabled, or check IP address settings of the Wi-Fi interface.
  If there are no problems on the items above, but the lamp is still flashing, push RESET Button for more than 14 seconds to retry the pairing.

• Every second:
  DNS setting is invalid. FIX DNS setting of the Router, DNS address setting of the Wi-Fi interface, or import the ratio wave environment.
  If there are no problems on the items above, but the lamp is still flashing, push RESET Button for more than 14 seconds to retry the pairing.

• Once every 5 sec:
  Not communicating with server properly. Push RESET Button for 2 seconds.

• Twice every 5 sec:
  Not connected to server. Check if the Router is connected to the Internet.

• Three times every 5 sec:
  Not communicating with server. (Quick communication error) Push RESET Button for 2 seconds.

[About trademarks]

• WPS is the connection via Wi-Fi Protected Setup.
• “Wi-Fi®, "Wi-Fi Protected Setup™", “WPA2™” are trademarks or registered trademarks of the Wi-Fi Alliance.

The Wi-Fi Interface uses Open Source Software. To view the Open Source software licence(s), please go to the following website whilst connected to the Wi-Fi Interface during the Access Point mode.
http://192.168.11.1/license

Mitsubishi Electric’s Wi-Fi interface is designed for communication to Mitsubishi Electric’s Wi-Fi service. Third party Wi-Fi interfaces cannot connect to Mitsubishi Electric’s Wi-Fi service. Mitsubishi Electric is not responsible for any (i) underperformance of a system or any product; (ii) system or product fault; or (iii) loss or damage to any system or product, which is caused by or arises from connection to and/or use of any third party Wi-Fi interface or any third party Wi-Fi service with Mitsubishi Electric equipment.

For the latest information regarding Wi-Fi Control:
New Zealand based enquiries please visit: www.mitsubishi-electric.co.nz/wifi
Australian based enquiries please visit: www.mitsubishielectric.com.au/wifi

Mitsubishi Electric Wi-Fi Heat Pump Control

Register Your Heat Pump(s)

Thank you for choosing a Mitsubishi Electric Heat Pump with Wi-Fi Control. Once your Wi-Fi interface is installed, either download the app (search term: Mitsubishi Wi-Fi Control) or visit our website to register your heat pump(s).

Once registered you will be able to control your heat pump with your smartphone, tablet or online account using an internet connection.

User Manual

A copy of the user manual, terms & conditions and privacy policy can be downloaded at any time from the Mitsubishi Electric website.

Mitsubishi Electric New Zealand
www.mitsubishi-electric.co.nz/wifi
Phone: 0800 639 434

Mitsubishi Electric Australia
Phone: 1300 728 119

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### 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>Remote controller</strong></td>
<td></td>
</tr>
</tbody>
</table>
| The display on the remote controller does not appear or it is dim. | - 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?  
- 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?  
- 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. |
| 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 temperature is high, the cooling effect may not be sufficient. |
| 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. |
| The air from the indoor unit smells strange. | - Are the filters clean?  
- Is the fan or heat exchanger of the indoor unit clean?  
- The unit may suck in an odor adhering to the wall, carpet, furniture, cloth, etc. and blow it out with the air. |
| **Sound** | |
| Cracking sound is heard. | - This sound is generated by the expansion/condensation of the front panel, etc. due to change in temperature. |
| "Burbling" sound is heard. | - This sound is heard when the outside air is absorbed from the drain hose by turning on the range hood or the ventilation fan, making water flowing in the drain hose to spout out.  
- This sound is also heard when the outside air blows into the drain hose in case the outside wind is strong. |
| Mechanical sound is heard from the indoor unit. | - This is the 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 operate according to settings. | - Is the ON/OFF timer set?  
- Transmit the setting information of the weekly timer to the indoor unit again. When the information is successfully received, a long beep will sound from the indoor unit. If information fails to be received, 3 short beeps will be heard. Ensure information is successfully received.  
- When a power failure occurs and the main power turns off, the indoor unit built-in clock will be incorrect. As a result, the weekly timer may not work normally.  
- Be sure to place the remote controller where the signal can be received by the indoor unit. |
| **General** | |
| The unit starts/stops the operation by itself. | - Is the weekly timer set? |
| **Indoor Unit** | |
| The unit cannot be operated. | - Is the breaker turned on?  
- Is the power supply plug connected?  
- Is the ON timer set?  
- Are the horizontal vane and the vertical vane installed correctly?  
- Is the fan guard deformed?  
- Are the horizontal vane and the vertical vane installed correctly?  
- Are the filters clean?  
- Are the horizontal vane and the vertical vane installed correctly?  
- Are the horizontal vane and the vertical vane installed correctly? |
| The horizontal vane does not move. | - When the breaker is turned on, the horizontal vane's 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 unit cannot be operated for about 3 minutes when restarted.  
- The cool air from the unit rapidly cools moisture in the air inside the room, and it turns into mist.  
- The horizontal vane does not return to the correct "close position".  
- The two horizontal vanes touch each other. The horizontal vanes move to the correct "close position".  
- The fan setting is not appropriate. Please change fan speed to High or Super High.  
- Is the weekly timer set?  
- The unit cannot be operated for about 3 minutes when restarted.  
- When the breaker is turned on, the horizontal vane's 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. | - When the breaker is turned on, the horizontal vane's 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 swing operation of the HORIZONTAL VANE is suspended for a while, then restarted. | - This is for the swing operation of the HORIZONTAL VANE to be performed normally. |
| The airflow direction changes during operation. | - 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.  
- In the heating operation, if the airflow tem- perature is too low or when defrosting is being done, the horizontal vane is automatically set to horizontal position. |
| The operation stops for about 10 minutes in the heating operation. | - Outdoor unit is in defrost.  
- Since this is completed in max. 10 minutes, please wait. (When the outside temperature is too low and humidity is too high, frost is formed.)  
- The 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. |
| 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- ler just before the shutoff of the main power. Refer to "Auto restart function". |
| The two horizontal vanes touch each other. The horizontal vanes are in an abnormal posi- tion. 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 hori- zontal vanes move to the correct "close position".  
- Start and stop the emergency cooling operation and make sure the horizontal vanes move to the correct "close position". |
| The indoor unit discolors over time. | - Although plastic turns yellow due to the influence of some factors such as ultraviolet light and temperature, this has no effect on the product functions. |
| **Multi system** | |
| The indoor unit which is not operating becomes warm and a sound, similar to water fl owing, is heard from the unit. | - A small amount of refrigerant continues to flow into the indoor unit even though it is not operat- ing. |
| 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 com- pressor 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.  
- The unit starts/stops the operation by itself.  
- Is the weekly timer set? |
| Water leaks from the outdoor unit. | - During COOL and DRY operations, pipe or pipe connecting sections are cooled and this causes water to condense.  
- In the heating operation, water condensed on the heat exchanger drips down.  
- In the heating operation, the defrosting operation makes ice forming on the outdoor unit melt and drip down. |
| White smoke is discharged from the outdoor unit. | - In the heating operation, vapor generated by the defrosting operation looks like white smoke. |

---

**Symptom Explanation & Check points**

- **Indoor Unit**
  - The unit cannot be operated.
  - The horizontal vane does not move.
  - The unit cannot be operated for about 3 minutes when restarted.
  - The swing operation of the HORIZONTAL VANE is suspended for a while, then restarted.
  - The airflow direction changes during operation.
  - The operation stops for about 10 minutes in the heating operation.
  - The unit starts operation by itself when the main power is turned on, but hasn’t received sign from the remote controller.
  - 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".
  - The indoor unit discolors over time.
  - **Multi system**
    - The indoor unit which is not operating becomes warm and a sound, similar to water flowing, is heard from the unit.
    - When heating operation is selected, operation does not start right away.
  - **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.
    - Water leaks from the outdoor unit.
    - White smoke is discharged from the outdoor unit.
In the following cases, stop using the air conditioner and consult your dealer.

• When water leaks or drips from the indoor unit.
• When the 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

1. 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 favorable conditions for growth of fungi, such as mold.

2. Press to stop the operation.

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

4. Remove all batteries from the remote controller.

When using the air conditioner again:

1. Clean the air filter. Page 11

2. Check that the 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.
• Do not use the Wi-Fi interface nearby the medical electrical equipment or people who have a medical device such as a cardiac pacemaker or an implantable cardioverter-defibrillator. It can cause an accident due to malfunctions of the medical equipment or device.
• This equipment should be installed and operated with a minimum distance of 20 cm between the device and the user or bystanders.
• Do not use the Wi-Fi interface nearby other wireless devices, microwaves, cordless phones, or facsimiles.

When using the air conditioner again:

1. Clean the air filter. Page 11

2. Check that the 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

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>Cooling</th>
<th>Indoor</th>
<th>Outdoor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper limit</td>
<td>32°C DB</td>
<td>46°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>—</td>
</tr>
<tr>
<td></td>
<td>15°C WB</td>
<td>-10°C DB</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Heating</th>
<th>Indoor</th>
<th>Outdoor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper limit</td>
<td>27°C DB</td>
<td>24°C DB</td>
</tr>
<tr>
<td></td>
<td>25°C DB</td>
<td>18°C WB</td>
</tr>
<tr>
<td>Lower limit</td>
<td>20°C DB</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>—</td>
<td>-15°C DB</td>
</tr>
</tbody>
</table>

**MEMO**

DB : Dry Bulb
WB : Wet Bulb

### Wi-Fi interface setting information

| | 
|----------------|-----------------|
| Indoor unit model name | 
| Indoor unit serial number | 
| Outdoor unit model name | 
| Outdoor unit serial number | 
| Wi-Fi interface MAC address (MAC) | 
| Wi-Fi interface serial number (ID) | 
| Wi-Fi interface SSID (SSID) | 
| Wi-Fi interface KEY (KEY) | 
| System commissioning date | 
| Wi-Fi interface installation date | 

### Installer contact details

| | 
|----------------|-----------------|
| Name | 
| Telephone number | 

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