MITSUBISHI ELECTRIC

FLOOR-TYPE AIR CONDITIONERS

INDOOR UNIT

MFZ-KW25VGK MFZ-KW35VGK MFZ-KW42VGK
MFZ-KW50VGK MFZ-KW60VGK

OPERATING INSTRUCTIONS

For user

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

English

Contents

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.
	Read the OPERATING INSTRUCTIONS carefully before operation.	
	Service personnel are required to carefully read the OPERATING INSTRUCTIONS and INSTALLATION MANUAL before operation.	
	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.

⚠ 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.

⚠ 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/R410A) enters the refrigerant circuit.
- Any presence of foreign substance such as air can cause abnormal pressure rise and may result in explosion or injury.
- The use of any refrigerant other than that specified for the system will cause mechanical failure, system malfunction, or unit breakdown. In the worst case, this could lead to a serious impediment to securing product safety.

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

Children should be supervised to ensure that they do not play with the appliance.

Safety Precautions

Do not turn the breaker off except the case of burning smell, or when performing maintenance or inspection.
- The refrigerant leakage cannot be detected, and this may cause a fire.

Do not install the unit in a place where smoke, gas, or chemicals may fill.
- Do not use any gas equipment for propane, butane or methane, sprays such as bug killer, and paint etc., near by the indoor unit.
- The refrigerant sensor reacts to it and displays an error. This may cause the unit not to operate.

(Procedure in case of refrigerant leakage)
If the refrigerant leaks, extinguish a fire such as a heater, and ventilate the room adequately by opening the window.
- Then contact your dealer.
- The indoor unit spreads the refrigerant by fan mode to prevent a fire. Do not turn the breaker off during this situation.

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, ventilate the room well and consult your dealer immediately. Do not turn the breaker off. 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 unit should be installed in rooms which exceed the floor space specified in outdoor unit installation manual.
- Refer to outdoor unit installation manual.

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 laypersons.

⚠ 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.

Before cleaning the unit, switch it off and disconnect the power plug or turn the breaker off.
- This may cause injury, since the fan inside rotates at high speeds during operation.

Replace all batteries of the remote controller with new ones of the same type.
- Using an old battery together with a new one may cause overheating, leakage, or explosion.

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

Ensure that the area is well-ventilated when the unit is operated together with a combustion appliance.
- Inadequate ventilation may cause oxygen starvation.

Do not operate the air conditioner after applying protecting agent on the floor.
- Components in the protecting agent may attach to the inside of the indoor unit, resulting in water leakage or splattering of dew.

Turn the breaker off when you hear thunder and there is a possibility of a lightning strike.
- The unit may be damaged if lightning strikes.

After the air conditioner is used for several seasons, perform inspection and maintenance in addition to normal cleaning.
- Dirt or dust in the unit may create an unpleasant odor, contribute to growth of fungi, such as mold, or clog the drain passage, and cause water to leak from the indoor unit. Consult your dealer for inspection and maintenance, which require specialized knowledge and skills.

Do not operate switches with wet hands.
- This may cause electric shock.

Do not clean the air conditioner with water or place an object that contains water, such as a flower vase, on it.
- This may cause fire or electric shock.

Do not step on or place any object on the outdoor unit.
- This may cause injury if you or the object falls down.

Important

Dirty filters cause condensation in the air conditioner which will contribute to the growth of fungi such as mold. It is therefore recommended to clean air filters every 2 weeks.

Safety Precautions

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.

For Wi-Fi Interface

⚠ Warning

(Improper handling may have serious consequences, including serious injury or death.)

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 accidents due to 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.

⚠ Caution

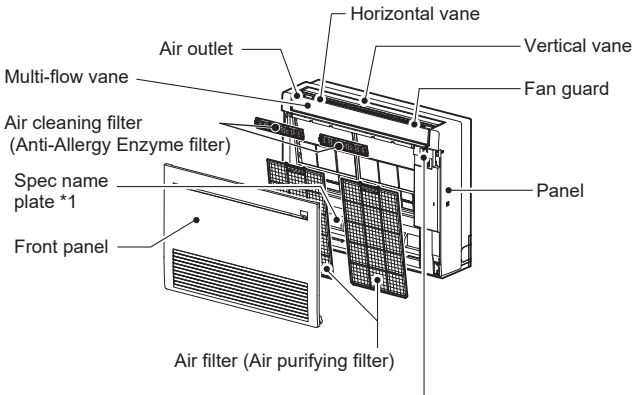
(Improper handling may have consequences, including injury or damage to building.)

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

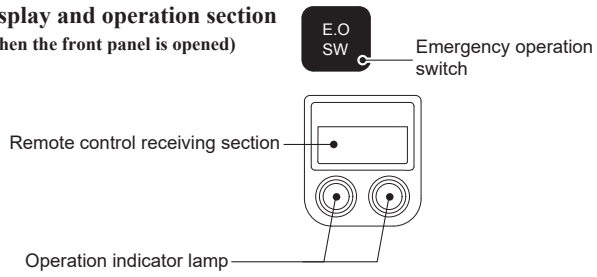
Do not use the Wi-Fi interface nearby other wireless devices, microwaves, cordless phones, or facsimiles.
- It can cause malfunctions.

Name of Each Part

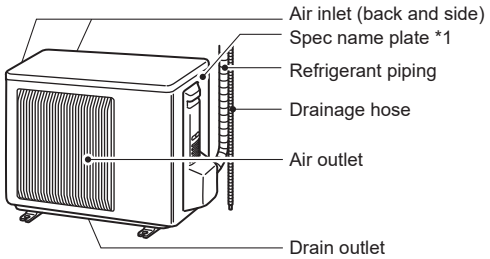
Indoor unit



Display and operation section
(When the front panel is opened)



Outdoor unit

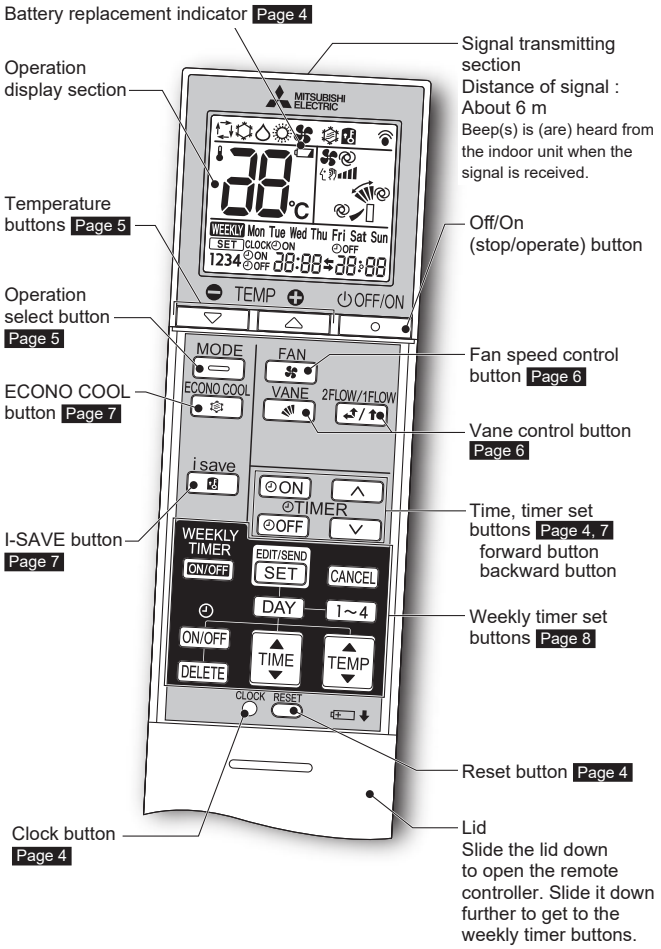


Outdoor units may be different in appearance.

*1 The manufacturing year and month is indicated on the spec name plate.

Name of Each Part

Remote controller

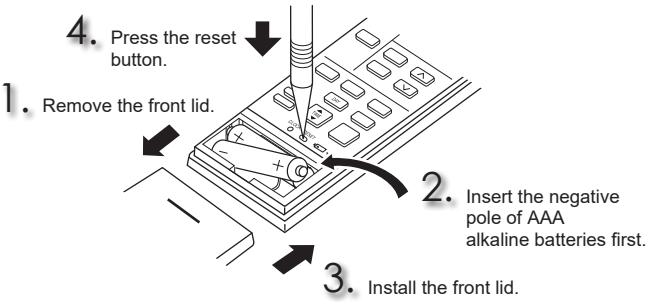


Only use the remote controller provided with the unit.
Do not use other remote controllers.
If two or more indoor units are installed in proximity to one another, an indoor unit that is not intended to be operated may respond to the remote controller.

Preparation Before Operation

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

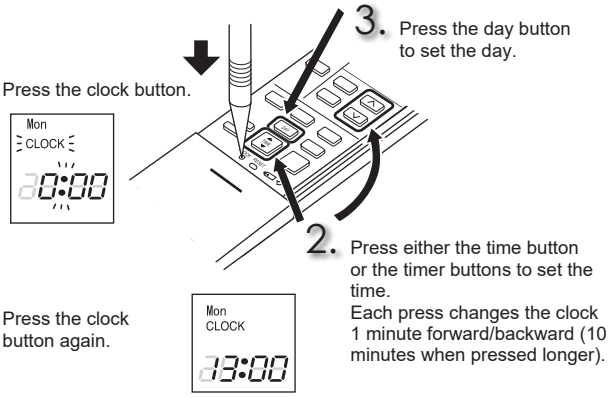
Installing the remote controller batteries



Note:

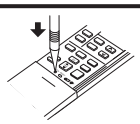
- Make sure the polarity of the batteries is correct.
- Do not use manganese batteries and leaking batteries. The remote controller could malfunction.
- Do not use rechargeable batteries.
- The battery replacement indicator lights up when the battery is running low. In about 7 days after the indicator 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 button gently using a thin instrument.
  If the RESET button is not pressed, the remote controller may not operate correctly.

Setting current time

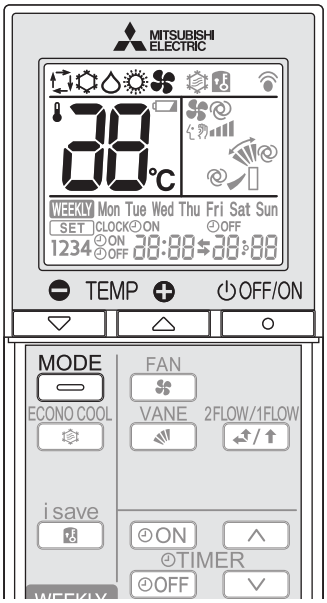


Note:

- Press CLOCK button gently using a thin instrument.



Selecting Operation Modes



1 Press OFF/ON to start the operation.

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

(Auto) → (Cool) → (Dry) → (Heat) → (Fan) →

3 Press ▲ or ▼ to set the temperature.
Each press raises or lowers the temperature by 1°C.

Press OFF/ON to stop the operation.

Note:

Operation indicator lamp

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

Indication	Operation state	Room temperature
☀☀	The unit is operating to reach the set temperature	About 2°C or more away from set temperature
☀ ○	The room temperature is approaching the set temperature	About 1 to 2°C from set temperature

☀ Lit ○ Not lit

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 mode↔heat mode) when the room temperature is about 2°C away from the set temperature for more than 15 minutes.

Note:

During multi system operation, the unit may not be able to switch operation mode between cool mode and heat mode. In this case, the indoor unit becomes standby mode (Refer to table of Operation indicator lamp).

Cool mode

Enjoy cool air at your desired temperature.

Note:

Do not operate cool mode at very low outside temperatures (less than -10°C). Water condensed in the unit may drip and wet or damage furniture, etc.

Dry mode

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

Heat mode

Enjoy warm air at your desired temperature.

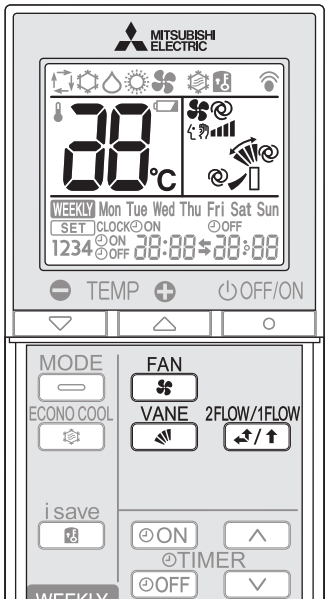
Fan mode

Circulate the air in your room.
Temperature cannot be set during fan mode.

Note:

After cool mode/dry mode operation, it is recommended to operate in the fan mode to dry inside the indoor unit.

Fan Speed and Airflow Direction Adjustment



Fan speed

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

(Auto) → (Silent) → (Low) → (Medium) → (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.

Up-down airflow direction

1 Press VANE to select vertical airflow direction. Each press will change airflow direction in the following order:

(Auto) → (1) → (2) → (3) → (4) → (Swing)

- Two short beeps will be heard from the indoor unit when set to Auto.
- Moving the horizontal vane/multi-flow vane manually can cause trouble.
- The horizontal vane/multi-flow vane automatically moves in certain intervals to determine its position, and then it returns to the set position.
- When the air outlet is switched between 1 flow and 2 flow, the horizontal vanes may move and change their positions.

(Auto).....The vane will be set to the most efficient airflow direction.
Cool/Dry/Fan mode (2 flow) : position (2)
Cool/Dry/Fan mode (1 flow) : position (1)
Heat mode (2 flow) : position (2)
Heat mode (1 flow) : position (3)

(Manual).....For efficient air conditioning, select upper position for cool mode/dry mode, and lower position for heat mode. During cool mode/dry mode, when the vane is set to position (3) or (4), the vane automatically moves to position (1) after 0.5 to 1 hour to prevent water dripping.

(Swing).....The horizontal vane will move up and down intermittently.

Air outlet selection

1 Press 2FLOW/1FLOW to select the air outlet(s).
When 2 flow is selected, air blows from the top and the front of the unit. When 1 flow is selected, air blows only from the top of the unit.

(2 flow) (1 flow)

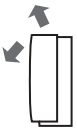
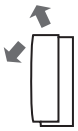
The multi-flow vane is automatically set to the appropriate position.
Even if 2 flow is selected, air will blow only from the top of the unit in the following conditions:

- During cool mode/dry mode: The room temperature is close to set temperature. The air conditioner has operated for 0.5 to 1 hour.
- During heat mode: The air flow temperature is low. (During defrosting operation, start of operation, etc.)

Note:

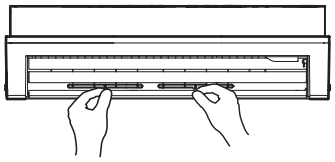
Movement at the start of the 2 flow operation

- Cool mode/Dry mode, heat mode: It takes 0.5 to 1 minute to start the 2 flow operation.
- Heat mode: When cold air blows out from the air outlet, the multi-flow vane may stop moving for up to 10 minutes to make and blow out warm air.

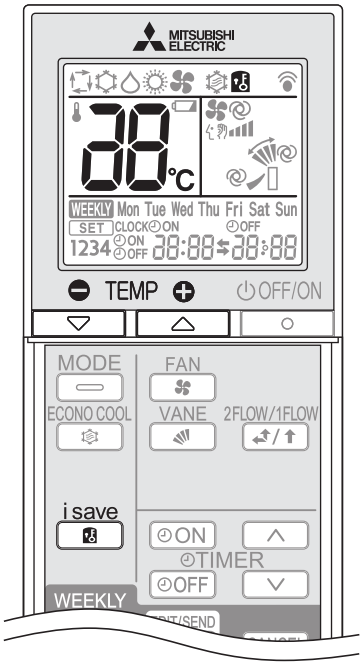
Operation	Cool (Dry) operation		Heat operation	
Airflow	 2 flow Upward and downward airflow	 1 flow Upward airflow	 2 flow Upward and downward airflow	 1 flow Upward airflow
Conditions	When the room temperature differs from the set temperature	When the room temperature is close to the set temperature. Or, after approximately 1 hour has passed since operation started.	When the airflow temperature is high.	When the airflow temperature is low. (Examples: During defrosting operation At the start of operation When the temperature approaches the set temperature)

Left-right airflow direction

■ **To change the horizontal airflow direction.**
Move the vertical vane manually before starting operation.



I-SAVE Operation



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

1 Press i save during cool mode or heat mode to select I-SAVE mode.

2 Set the temperature, fan speed, airflow direction, and 2 flow/1 flow.

- The same setting is selected from the next time by simply pressing i save.
- Two settings can be saved. (One for cool mode, one for heat mode)
- Select the appropriate temperature, fan speed, airflow direction, and 2 flow/1 flow 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.

Press i save again to cancel I-SAVE operation.

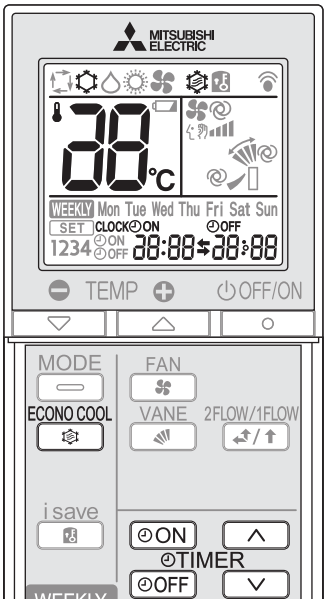
- I-SAVE operation also is cancelled when the MODE is pressed.

Note:

Example of use:

1. Low energy mode
   Set the temperature 2°C to 3°C warmer in cool mode 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 mode and heat mode. 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 ECONO COOL during cool mode page 5 to start ECONO COOL operation.
The unit performs swing operation vertically in various cycles according to the temperature airflow.

Press ECONO COOL again to cancel ECONO COOL operation.

- ECONO COOL operation is also cancelled when the VANE is pressed.

Timer Operation (On/Off Timer)

1 Press ON or OFF during operation to set the timer.

ON (On timer) : The unit turns on at the set time.

OFF (Off timer) : The unit turns off at the set time.

*** ON or OFF blinks.**

*** Make sure that the current time and day are set correctly.** Page 4

2 Press ∧ (forward) and ∨ (backward) to set the time of timer.
Each press changes the set time 10 minutes forward/backward.

- Set the timer while ON or OFF is blinking.

Press ON or OFF again to cancel timer.

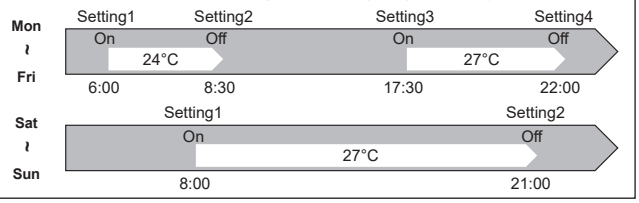
Note:

- On and off timers can be set together. ⇆ mark indicates the order of timer operations.
- If power failure occurs while an on/off timer is set, see page 14 "Auto Restart Function".

Weekly Timer Operation

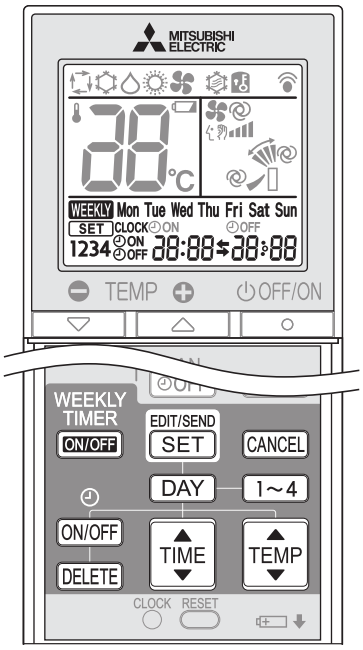
- A maximum of 4 on or off timers can be set for individual days of the week.
- A maximum of 28 on or off timers can be set for a week.

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.



Note:

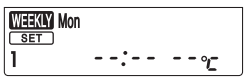
The simple on/off timer setting is available while the weekly timer is on. In this case, the on/off timer has priority over the weekly timer; the weekly timer operation will start again after the simple on/off timer is complete.



Setting the weekly timer

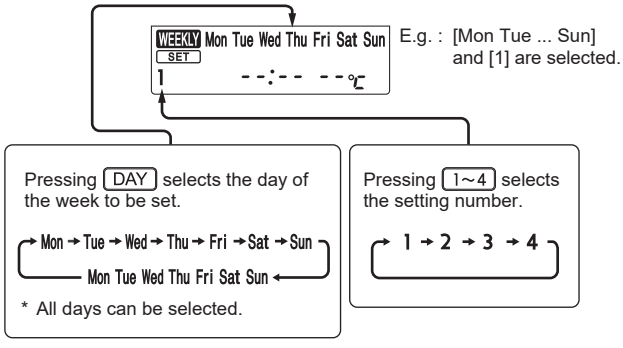
* Make sure that the current time and day are set correctly.

1 Press EDIT/SEND SET to enter the weekly timer setting mode.

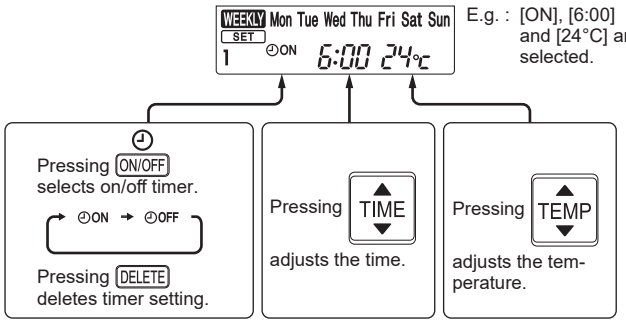


* SET blinks.

2 Press DAY and 1~4 to select setting day and number.



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

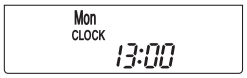


* Hold down the button to change the time quickly.

* The temperature can be set between 16°C and 31°C at weekly timer.

Press DAY and 1~4 to continue setting the timer for other days and/or numbers.

4 Press EDIT/SEND SET to complete and transmit the weekly timer setting.



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

Note:

- Press EDIT/SEND 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, EDIT/SEND SET does not have to be pressed per each setting. Press EDIT/SEND SET once after all the settings are complete. All the weekly timer settings will be saved.
- Press EDIT/SEND SET to enter the weekly timer setting mode, and press and hold DELETE for 5 seconds to erase all weekly timer settings. Point the remote controller toward the indoor unit.

5 Press WEEKLY TIMER ON/OFF to turn the weekly timer on. (WEEKLY lights.)

* When the weekly timer is on, the day of the week whose timer setting is complete, will light.

Press WEEKLY TIMER ON/OFF again to turn the weekly timer off. (WEEKLY goes out.)

Note:

The saved settings will not be cleared when the weekly timer is turned off.

Checking weekly timer setting

1 Press EDIT/SEND SET to enter the weekly timer setting mode.

* SET blinks.

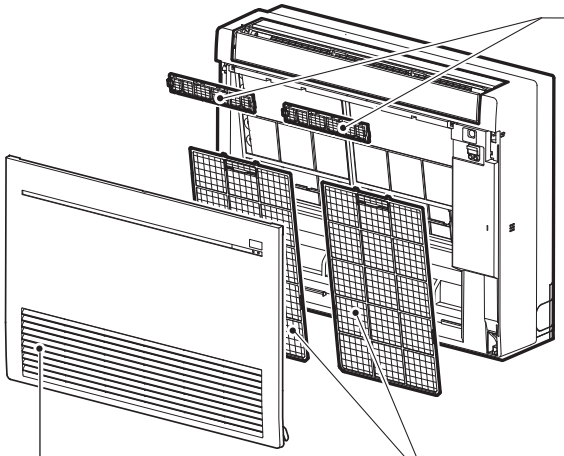
2 Press DAY or 1~4 to view the setting of the particular day or number.

Press CANCEL to exit the weekly timer setting.

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.
- When dirt stands out, wash it with kitchen neutral detergent diluted with lukewarm water to the specified concentration, then wipe off the detergent with a damp towel.
- Do not expose parts to direct sunlight, heat, or flames to dry.
- Do not use water hotter than 50°C.
- Do not use a scrubbing brush, a hard sponge, or the like.
- Do not soak or rinse the horizontal vane.
- Do not apply excessive force on the fan as it may cause cracks or breakage.



Air cleaning filter (Anti-Allergy Enzyme filter)

Back side of air filter

Clean every 3 months:

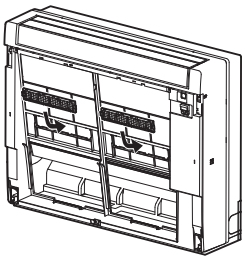
- Remove dirt by a vacuum cleaner.

When dirt cannot be removed by vacuum cleaning:

- Soak the filter and its frame in lukewarm water before rinsing it.
  (Diluted mild detergents can be used when dirt cannot be removed.)
- After washing, dry it well in shade.

Every year:

- Replace it with a new air cleaning filter for best performance.
- Parts Number MAC-408FT-E

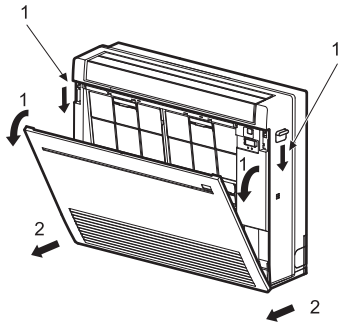


Air filter (Air purifying filter)

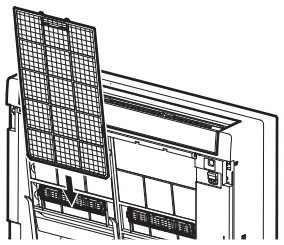
- **Clean every 2 weeks**
- Remove dirt by a vacuum cleaner, or rinse with water.
- After washing with water, dry it well in shade.

Front panel

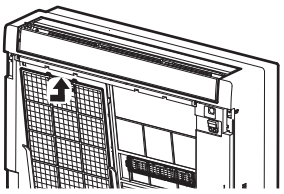
1. Push down the tab on the both sides of the unit to open the front panel.
2. Pull the front panel toward you to remove it.
3. Open the front panel completely and then remove it.
   - Wipe with a soft dry cloth or wash it with water.
   - Do not soak it in water for more than two hours.
   - Dry it well in shade before installing it.
4. Install the front panel by following the removal procedure in reverse.



1



2



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.**

Wi-Fi Module Setting Up

This Wi-Fi module, communicates the status information and controls the commands from Wi-Fi Control App by connecting to an indoor unit.

Setting up

Set up a connection between the Wi-Fi module and the router.

Note:

Setup is possible only after operating the air conditioner using the wireless remote controller.

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

Selecting a mode

The Wi-Fi module has to be paired with the Router in order for communication between the indoor unit and Wi-Fi Control App to begin. There are 2 methods of pairing the Wi-Fi module with the Router:

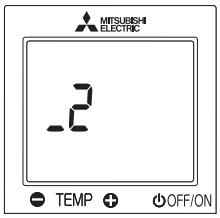
- WPS-PUSH mode
- Access Point mode

The mode to be set depends on whether your Router has the WPS button.
Please use the pairing mode most suitable for your system.
Follow the instructions below to set the pairing mode with Remote controller.
Set up the Wi-Fi module and the Router again when the Router has been replaced.

Note:

To reset connection and set up the Wi-Fi module and the router again

- Hold down the Temperature ⊖ for 5 seconds.
- Select "_ 2" by pressing Temperature ⊕ and ⊖.
- Point the remote controller toward the indoor unit and press the ⏻OFF/ON ○.
- The indoor unit beeps 3 times when resetting is complete.

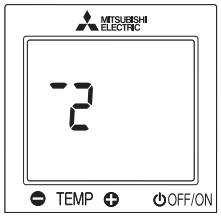


Setting up in WPS-PUSH mode

To enter the mode

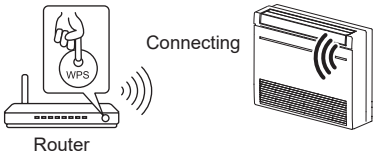
- Hold down the Temperature ⊕ for 5 seconds.
- Select "¯ 2" by pressing Temperature ⊕ and ⊖ as shown on the right.
- Point the remote controller toward the indoor unit and press the ⏻OFF/ON ○.

WPS-Push mode



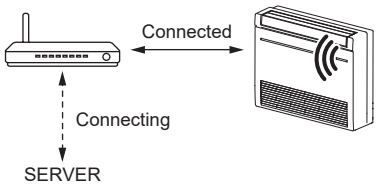
1 Connect the Router to the air conditioner.

Make sure that the LED indication is as shown below.
Push WPS button of the Router within 2 minutes after the mode selection has completed.
The WPS-PUSH mode will return to initial state if WPS button is not pressed for 2 minutes.



The LED lights up for 3 seconds then flashes twice. A beep sounds as the LED flashes. This series of actions is repeated.

2 LED indication will be as shown below when connection between the Router and Wi-Fi module is completed and connection to the server starts.



The LED lights up for 5 seconds and then a beep sounds for 1 second.

If the indication LED does not change or flashes 5 times, connection fails.
Please reset connection and setup the Wi-Fi module and the Router again.
Main Causes that WPS failed are as follows.
Communication distance (from the Wi-Fi module to Router), Router settings (encryption, authentication, limit of connections, etc.)

Wi-Fi Module Setting Up

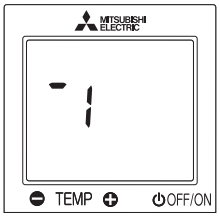
Setting up in Access Point mode

Complete the setting up in the Access Point mode within 10 minutes.

To enter the mode

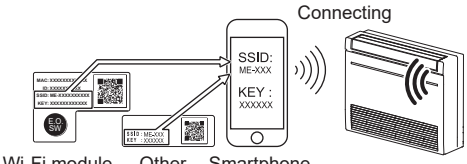
- Hold down the Temperature ⊕ for 5 seconds.
- Select "¯ 1" by pressing Temperature ⊕ and ⊖ as shown on the right.
- Point the remote controller toward the indoor unit and press the ⏻OFF/ON.

Access Point mode



1 Connect your smartphone to the air conditioner.

Make sure that the LED indication is as shown below.
On the Wi-Fi Setting Screen on your smartphone, select SSID and enter KEY, which are printed on the information label.



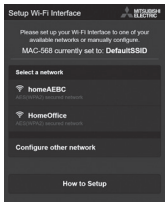
The LED lights up for 3 seconds then flashes once. A beep sounds as the LED flashes. This series of actions is repeated.

Note:

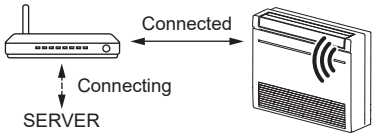
- Check Wi-Fi setting of your smartphone if SSID does not appear on it.
- Enter KEY again if SSID appears on your smartphone, but it cannot connect to the Wi-Fi module.
- The LED indication does not change or flashes 5 times if connection fails. In that case, reset connection and set up the Wi-Fi module and the router again.

2

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.



3 LED indication will be as shown below when connection between the Router and Wi-Fi module is completed and connection to the server starts.



The LED lights up for 5 seconds and then a beep sounds for 1 second.

Note:

It may take several minutes to show the indication above.
The LED indication does not change or flashes 5 times if connection fails.
In that case, reset connection and set up the Wi-Fi module and the router again.

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).

Download on the App Store

GET IT ON Google Play

Once registered you will be able to control your heat pump with your smartphone, tablet or online account using an internet connection. (For a list of compatible devices, please visit the Mitsubishi Electric website).

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

www.mitsubishielectric.com.au/wifi

Phone: 1300 728 119

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*Google Play and the Google Play logo are trademarks of Google Inc.

Wi-Fi Module Setting Up

When it doesn't connect well

Check the following, and pair the Wi-Fi module and the Router according to Selecting a mode.

- Make sure that the communication distance is not too far between the Wi-Fi module and the Router.
- Make sure that the Router uses WPA2-AES encryption.
- Make sure that the number of connected devices to the Router does not exceed the limit.
- Make sure that DHCP is enabled, or check IP address setting of the Wi-Fi module.
- Check DNS settings of the Router, or check DNS address of the Wi-Fi module.
- Check if the Router is connected to Internet.
- Set up the Wi-Fi module after operating the air conditioner using the wireless remote controller at least once.

If the connection fails even after checking the above, set up the Wi-Fi module and the router again by the following method.

- Hold down the Temperature ⊖ for 5 seconds.
- Select "_ 2" by pressing Temperature ⊕ and ⊖.
- Point the remote controller toward the indoor unit and press the ⏻OFF/ON button.
- The indoor unit beeps 3 times when resetting is complete.

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

Note:

- Ensure that the Router supports the WPA2-AES encryption setting before starting the Wi-Fi module setup.
- The End user should read and accept the terms and conditions of the Wi-Fi service before using this Wi-Fi module.
- To complete connection of this Wi-Fi module to the Wi-Fi service, the Router may be required.
- This Wi-Fi module will not commence transmission of any operational data from the system until the End user registers and accepts the terms and conditions of the Wi-Fi service.
- This Wi-Fi module should not be installed and connected to any Mitsubishi Electric system which is to provide application critical cooling or heating.
- Please write down the information regarding the Wi-Fi module setting on the last page of this manual, when you set up this Wi-Fi module.
- At the time of relocation or disposal, reset the Wi-Fi module to the factory default.

Mitsubishi Electric's Wi-Fi module is designed for communication 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 module 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

When 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.	• Is the breaker turned on? • Is the power supply plug connected? • Is the on timer set?
The unit cannot be operated for about 3 minutes when restarted.	• This protects the unit according to instructions from the microprocessor. Please wait.
Mist is discharged from the air outlet of the indoor unit.	• The cool air from the unit rapidly cools moisture in the air inside the room, and it turns into mist.
White smoke is discharged from the air inlet of the indoor unit.	• When the heating operation starts after the defrosting operation, vapor generated from the condensation on the heat exchanger looks like white smoke.
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 air flow direction changes during operation. The direction of the horizontal vane/multi-flow vane cannot be adjusted with the remote controller.	• In the heating operation, if the air flow temperature is too low or when defrosting is being done, the horizontal vane is automatically set to vertical position. The multi-flow vane is set to the closed position. • When the air conditioner is operated in cool mode or dry mode, if the operation continues with air blowing horizontally for 1 hour, the direction of the air flow is automatically set to position (1) to prevent condensed water from dropping. The multi-flow vane is set to the closed position. • The horizontal vane and the multi-flow vane automatically moves in certain intervals to determine its position, and then it returns to the set position.
The operation is stopped for about 10 minutes in the heating operation.	• Defrosting of the outdoor unit is being done. 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, though it isn't operated with 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 controller just before the shutoff of the main power. Refer to "Auto Restart Function". Page 14
In cool mode/dry mode, when the room temperature reaches near the set temperature, the outdoor unit stops, then the indoor unit operates at low speed.	• When the room temperature deviates from the set temperature, the indoor fan starts running according to the settings on the remote controller.
The multi-flow vane opens and closes automatically.	• The multi-flow vane is automatically controlled by a microcomputer according to the air flow temperature and operation time of the air conditioner.
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 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.
The walls around the indoor unit have smudges.	• It is because the walls get dust in the air due to air circulation by the air conditioner.
Water leaks from the indoor unit.	• Does water flow smoothly from the edge of the drain hose?
Outdoor unit	
The fan of the outdoor unit does not rotate even though the compressor is running. Even if the fan starts to rotate, it stops soon.	• When the outside temperature is low during cooling operation, the fan operates intermittently to maintain sufficient cooling capacity.
Water leaks from the outdoor unit.	• During cooling operation and dry operation, pipe or pipe connecting sections are cooled and this causes water to condense. • In the heating operation, water condensed on the heat exchanger drips down. • In the heating operation, the defrosting operation makes water frozen on the outdoor unit melt and drip down.
White smoke is discharged from the outdoor unit.	• In the heating operation, vapor generated by the defrosting operation looks like white smoke.

When You Think That Trouble Has Occurred

Symptom	Explanation & Check points
Remote controller	
The display on the remote controller does not appear or it is dim. The indoor unit does not respond to the remote control signal.	• Are the batteries exhausted? Page 4 • Is the polarity (+, -) of the batteries correct? Page 4 • Did you press the reset button after replacing the batteries? Page 4 • Is the setting of multiple indoor units' installation the same as before replacing the batteries? Page 4 • Are any buttons on the remote controller of other electric appliances being pressed? • The indoor unit may not receive the signal well depending on the condition in the room. Get close to the indoor unit and operate the remote controller.
Does not cool or heat	
The room cannot be cooled or heated sufficiently.	• Is the temperature setting appropriate? Page 5 • Is the fan setting appropriate? Please change fan speed to High or Super High. Page 6 • Is the air outlet selection is set to 1 flow? Set it to 2 flow. Page 6 • Is the filter clean? Page 9 • 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? • If there is an obstacle above the indoor unit, the room may not be cooled or warmed due to insufficient airflow. Page 14 • If something is blocking the airflow from the downward airflow flap during 2 flow (upward and downward airflow), the airflow will be weakened and the room temperature will not be detected correctly. Do not place any obstacles near the unit as it will become difficult to heat or cool the entire room. If you cannot move obstacles, set ( ) on the remote controller to 1 flow operation (upward airflow). • 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.
Airflow	
The air from the indoor unit smells strange.	• Is the filter clean? Page 9 • 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.

Symptom	Explanation & Check points
Sound	
Cracking sound is heard.	• This sound is generated by the expansion/ contraction of the 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 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 switched.
The sound of motor and swirling sound is heard from the indoor unit.	• This is the sound of water condensed during cooling operation/dry operation being drained from the indoor unit. • Sound of water draining may also be heard from indoor units which are not operating. (The sound will stop automatically. Please wait.)
Heating operation stops and the sound is heard.	• The outdoor unit is defrosting. Heating operation starts after the frost on the outdoor unit has been removed. This can take about 2 to 10 minutes. • Cracking sound, Sound of water flowing, Hissing sound and Whistling sound are heard.
Timer	
Weekly timer does not operate according to settings.	• Is the on/off timer set? Page 7 • 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 8 • 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
The unit starts/stops the operation by itself.	• Is the weekly timer set? Page 8
Dirt	
The ceiling and wall around the indoor unit get dirty.	• Please clean the periphery of the air conditioner frequently. • Stains can be prevented by reducing the amount of air directed toward the ceiling and the walls and by adjusting the vertical wind direction.
Wi-Fi Interface	
When error occurs during connection setup or operation.	Refer to the SETUP MANUAL. For SETUP MANUAL, please go to the website below. New Zealand: www.mitsubishi-electric.co.nz/wifi Australian: www.mitsubishielectric.com.au/wifi
Other	
The aluminum fin on the edge of the heat exchanger is discolored as if it is burnt.	• This is the coating resin discolored due to welding heat when the heat exchanger was being produced. • The operation of the air conditioner is not the cause of the discoloration. It affects neither the performance of the heat exchanger nor the use of the air conditioner.

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.

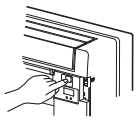
Emergency Operation

When the remote controller cannot be used...

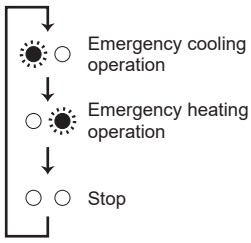
Emergency operation can be activated by pressing the emergency operation switch (E.O. SW) on the indoor unit.

Each time the E.O. SW is pressed, the operation changes in the following order:

Operation indicator lamp



Emergency operation switch (E.O SW)



Set temperature : 24°C
Fan speed : Medium
Horizontal vane : Auto
Air outlet : 2 flow

Note:

- The first 30 minutes of operation is test run. Temperature control does not work, and fan speed is set to High. The air outlet selection is set to 2 flow. Page 6
- In the emergency heating operation, the fan speed gradually rises to blow out warm air.

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.

When the Air Conditioner Is Not Going to Be Used for a Long Time

1. Set to the highest temperature in manual cool mode, and operate for 3 to 4 hours. Page 5
   - 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 ⏻OFF/ON to stop the operation.
3. Do not turn the breaker off except the case of burning smell, or when performing maintenance or inspection. The refrigerant leakage cannot be detected, and this may cause a fire.
4. Remove all batteries from the remote controller.

When using the air conditioner again:

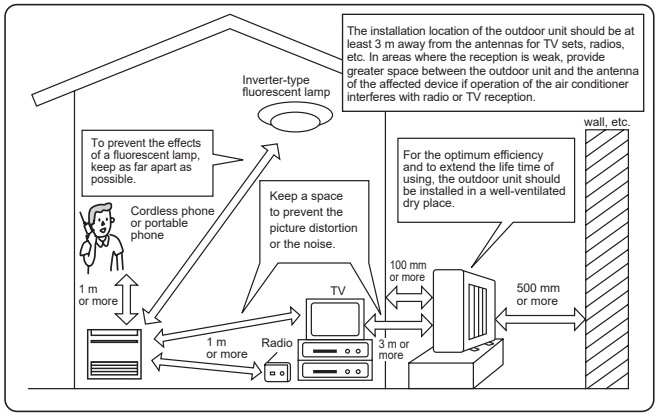
1. Clean the air filters. Page 9
2. Check that the air inlet and outlet of the indoor and outdoor units are not blocked.
3. Check that the earth is connected correctly.
4. Refer to the “Preparation Before Operation”, and follow the instructions. Page 4

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.
- Do not install the indoor unit at a place higher than 150 mm.
- 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.



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

Model	Indoor		MFZ-KW25VGK-A1		MFZ-KW35VGK-A1		MFZ-KW42VGK-A1	
	Outdoor		MUFZ-KW25VG2-A1		MUFZ-KW35VG2-A1		MUFZ-KW42VG2-A1	
Function			Cooling	Heating	Cooling	Heating	Cooling	Heating
Power supply			~/N, 230 V, 50 Hz					
Capacity		kW	2.5	3.4	3.5	4.3	4.2	5.4
Input		kW	0.57	0.78	0.87	1.14	1.11	1.43
Weight	Indoor	kg	15					
	Outdoor	kg	35					
Refrigerant filling capacity (R32)		kg	1.0					
IP code	Indoor		IP20					
	Outdoor		IP24					
Permissible excessive operating pressure	LP ps	MPa	2.77					
	HP ps	MPa	4.17					
Noise level	Indoor (Super High/ High/Med./Low./Quiet)	dB(A)	44/38/32/ 26/20	44/38/31/ 25/18	44/38/32/ 26/20	44/38/31/ 25/18	51/43/36/ 28/20	51/44/36/ 27/18
	Outdoor	dB(A)	48	46	48	47	48	47

Model	Indoor		MFZ-KW50VGK-A1				MFZ-KW60VGK-A1			
	Outdoor		MUFZ-KW50VG2-A1		MUFZ-KW50VGHZ2-A1		MUFZ-KW60VG2-A1		MUFZ-KW60VGHZ2-A1	
Function			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Power supply			~/N, 230 V, 50 Hz							
Capacity		kW	5.0	5.8	5.0	5.8	6.1	6.5	6.1	6.5
Input		kW	1.32	1.53	1.32	1.53	1.73	1.88	1.73	1.88
Weight	Indoor	kg	15							
	Outdoor	kg	54							
Refrigerant filling capacity (R32)		kg	1.3							
IP code	Indoor		IP20							
	Outdoor		IP24							
Permissible excessive operating pressure	LP ps	MPa	2.77							
	HP ps	MPa	4.17							
Noise level	Indoor (Super High/ High/Med./Low./Quiet)	dB(A)	44/39/35/ 31/27	50/45/40/ 35/29	44/39/35/ 31/27	50/45/40/ 35/29	53/46/39/ 35/27	51/47/41/ 35/29	53/46/39/ 35/27	51/47/41/ 35/29
	Outdoor	dB(A)	53	56	53	56	53	56	53	56

Guaranteed operating range

		Indoor	Outdoor	
			MUFZ-KW25/35/42/50/60VG2	MUFZ-KW50/60VGHZ2
Cooling	Upper limit	32°C DB 23°C WB	46°C DB —	46°C DB —
	Lower limit	21°C DB 15°C WB	-10°C DB —	-10°C DB —
Heating	Upper limit	27°C DB —	24°C DB 18°C WB	24°C DB 18°C WB
	Lower limit	20°C DB —	-15°C DB -16°C WB	-25°C DB -26°C WB

DB: Dry Bulb
WB: Wet Bulb

Note:

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

Wi-Fi interface

Model	MAC-588IF-E
Input Voltage	DC12.7 V (from indoor unit)
Power consumption	MAX. 2 W
Size H×W×D (mm)	73.5×41.5×18.5
Weight (g)	96 g (including cable)
Transmitter power level (MAX.)	20 dBm @IEEE 802.11b
RF channel	1ch ~ 13ch (2412~2472 MHz)
Radio protocol	IEEE 802.11b/g/n (20)
Encryption	AES
Authentication	WPA2-PSK
Length of cable (mm)	2,040

For Declaration of Conformity, please go to the website below.
http://www.mitsubishielectric.com/ldg/ibim/

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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