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Safety Precautions

Meanings of symbols displayed on indoor unit and/or outdoor unit

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

:

- Since rotating parts and parts which could cause an electric shock are used in this product, be sure to read these "Safety Precautions" before use.
- Since the cautionary items shown here are important for safety, be sure to
 observe them.
- After reading this manual, keep it together with the installation manual in a handy place for easy reference.
- Be sure to receive a guarantee card from your dealer and check that the purchased date and shop name, etc. are entered correctly.
- Wi-Fi[®] is a registered trademark of Wi-Fi Alliance[®].

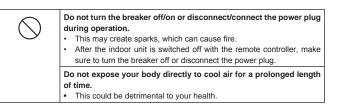
Marks and Their Meanings

🖄 Warning :	Incorrect handling could cause serious hazard, such as death, serious injury, etc. with a high probability.
A Caution :	Incorrect handling could cause serious hazard depending on the conditions.

🖄 Warning			
\bigcirc	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.		

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.
- A : 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.
- S : Never touch with wet hand.
- (Never splash water on the unit.

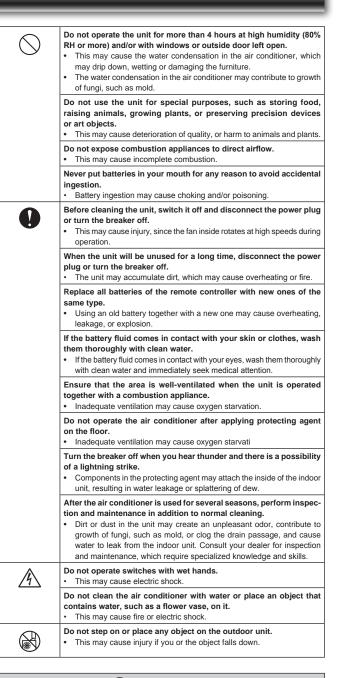


Safety Precautions

\bigcirc	 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.
	This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of ex- perience 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.
\bigcirc	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. The indoor unit must be installed in rooms which exceed the floor space specified. Please consult your dealer. 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
\bigcirc	Do not touch the air inlet or the aluminum fins of the indoor/outdoor unit. • This may cause injury. Do not use insecticides, flammable sprays, air refreshers, or antibac- terial agents 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

This may cause the batteries to leak, or cause a fire or explosion.

into a fire.



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.

•••••

Safety Precautions

For Installation

🖄 Warning				
\bigcirc	 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. 			
0	 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			
0	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.

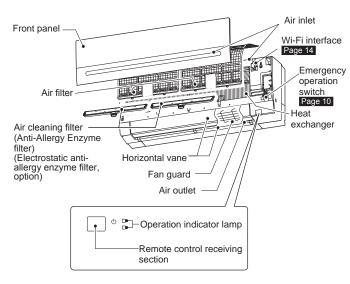
For Wi-Fi Interface

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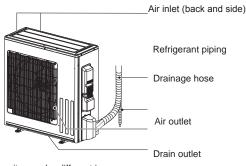
(Improper injury or de	handling may have serious consequences, including serious ath.)				
This appliance can be used by children aged from 8 years and ab and persons with reduced physical, sensory or mental capabilitie lack of experience and knowledge if they have been given sup sion or instruction concerning use of the appliance in a safe way understand the hazards involved.					
	Children shall not play with the appliance. Cleaning and user mainte- nance 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. 				
\bigotimes	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. 				
0	 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 regularements for EMC and electrical safety. 				
(Improper to building.	handling may have consequences, including injury or damage				
\bigcirc	Do not step on unstable stepstool to set up or clean the Wi-Fi interface. It may cause injury if you fall down. 				
\bigcirc	Do not use the Wi-Fi interface nearby other wireless devices, micro- waves, cordless phones, or facsimiles. • It can cause malfunctions.				

${f N}$ ame of Each Part

Indoor unit



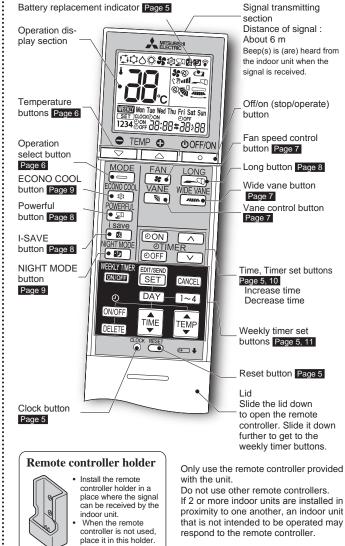
Outdoor unit



Outdoor units may be different in appearance.

Remote controller

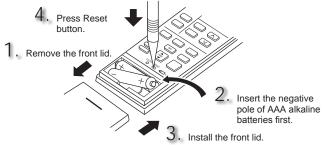
:



reparation Before Operation

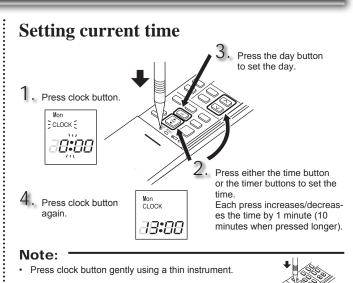
Before operation: Insert the power supply plug into the power outlet and/or turn the breaker on.

Installing the remote controller batteries



Note:

- Make sure the polarity of the batteries is correct.
- Do not use manganese batteries and leaking batteries. The remote controller could malfunction
- Do not use rechargeable batteries
- The battery replacement indicator lights up when the battery is running low. In about 7 days after the indicator starts lights up, the remote controller stops working.
- Replace all batteries with new ones of the same type.
- Batteries can be used for approximately 1 year. However, batteries with expired shelf lives last shorter.
- Press reset button gently using a thin instrument.
- If the reset button is not pressed, the remote controller may not operate correctly.



Note:

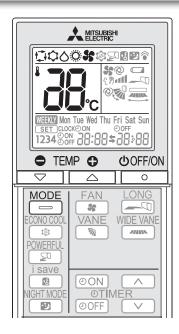
How to set remote controller exclusively for a particular indoor unit A maximum of 4 indoor units with wireless remote controllers can be used in a room.

- To operate the indoor units individually with each remote controller, assign a number to each remote controller according to the number of the indoor unit. This setting can be set only when all the following conditions are met:
- The remote controller is powered off.
- (1) Hold down $1 \sim 4$ button on the remote controller for 2 seconds to enter the pairing mode.
- (2) Press $1 \sim 4$ button again and assign a number to each remote controller. Each press of $1 \sim 4$ button advances the number in the following order: $1 \rightarrow 1$ $2 \rightarrow 3 \rightarrow 4.$ (3) Press SET button to complete the pairing setting.

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

The setting of indoor unit will be cancelled, if the breaker is turned off or the power supply is shut down.

Selecting Operation Modes



Press \bigcirc to start the operation.

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

3

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

ტoff/on Press ____ to stop the operation.

🗘 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 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.

O Heat Mode

Enjoy warm air at your desired temperature.

🛠 Fan Mode

Circulate the air in your room.

Note:

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

Note:

Multi system operation

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

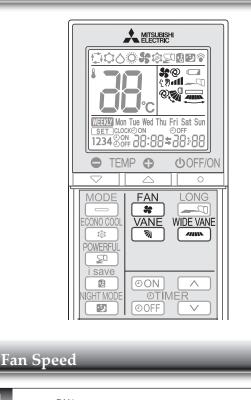
Operation indicator lamp

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

Indication	Operation state	Room temperature
※ ※	The unit is operating to reach the set temperature	About 2°C or more away from set tem- perature
*	The room temperature is approach- ing the set temperature	About 1 to 2°C from set temperature
※ ※	Demand Response mode Page 12	_

☀ Lit ☀ Blinking ○ Not lit

Fan Speed and Airflow Direction Adjustment



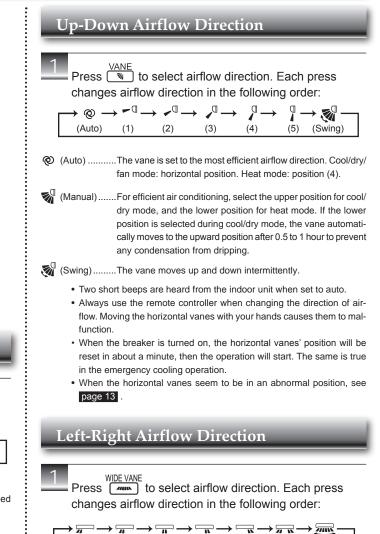
Press FAN to select fan speed. Each press changes fan speed in the following order:

• 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:

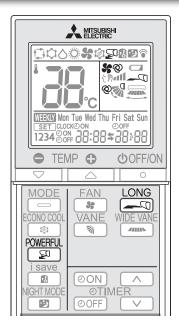
Multi system operation

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.



(Swing)

Long Operation



LONG

- Press even to start long operation.
- Fan speed increases and the horizontal vane moves to the position for LONG mode.
- Air reaches to longer distance.

Press again to cancel long operation.

 LONG operation is cancelled when the off/on, vane, or ECONO COOL button is pressed.

Powerful Operation

Press during cool or heat mode Page 6 to start powerful operation.

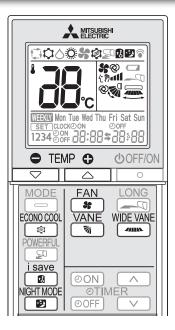
Fan speed : Exclusive speed for powerful mode Horizontal vane : Set position, or downward airflow position during auto setting

• Temperature cannot be set during powerful operation.

POWERF

- Press again to cancel powerful operation.
- POWERFUL operation also is cancelled automatically in 15 minutes, or when the off/on, fan mode, ECONO COOL, or I-SAVE button is pressed.

-SAVE Operation



A simplified set back function enables to recall the preferred (preset) setting with a single push of the $\underline{\mathbb{B}}$ button. Press the button again and you can go back to the previous setting in an instance.

1 Pres

Press B during cool mode, ECONO COOL, NIGHT MODE, or heat mode to select I-SAVE mode.

Set the temperature, fan speed, and airflow direction.

- The same setting is selected from the next time by simply pressing isave
- Two settings can be saved. (one for cool mode/ECONO COOL, one for heat mode)
- 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.

Press again to cancel I-SAVE operation.

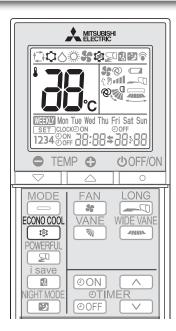
I-SAVE operation also is cancelled when the Operation select button is pressed.

Note:

Example of use:

- 1. Low energy mode
 - Set the temperature 2°C to 3°C warmer in cool and cooler in heat mode. This setting is suitable for unoccupied room, and while you are sleeping.
- 2. Saving frequently used settings
 - Save your preferred setting for cool mode/ECONO COOL 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 airflow) makes you feel cooler than stationarv airflow.

The set temperature and the airflow direction are automatically changed by the microprocessor. It is possible to perform cooling operation with keeping comfort. As a result energy can be saved.

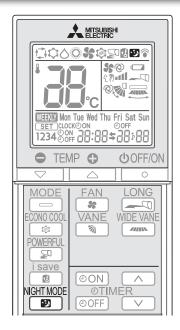
Press a during cool mode page 6 to start ECO-NO COOL operation.

The unit performs swing operation vertically in various cycles according to the temperature airflow.

Press again to cancel ECONO COOL operation.

· ECONO COOL operation is also cancelled when the VANE button is pressed.

NIGHT MODE Operation



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

NIGHT MODE Press During operation to activate NIGHT MODE.

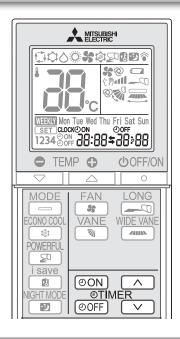
- The operation indicator lamp dims.
- The beep sound will be disabled except that emitted when the operation is started or stopped.
- · Noise level of the outdoor unit will be lower than that mentioned in SPECIFICATIONS.

Press 2 again to cancel NIGHT MODE.

Note:

- The cooling/heating capacity may drop.
- Noise level of the outdoor unit may not change after start-up of the unit, during the protection operation, or depending on other operating conditions.
- The fan speed of the indoor unit will not change.
 - The operation indicator lamp will be hard to be seen in a bright room.
 - Noise level of the outdoor unit will not decrease during Multi system operation.

Γ imer Operation (On/Off Timer)



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 5

2

Press (Increase) and (Decrease) to set the time of timer.

Each press increases or decreases the set time by 10 minutes. \bullet Set the timer while $\mathfrak{O}\texttt{ON}$ or $\mathfrak{O}\texttt{OFF}$ is blinking.

Press ON or OFF again to cancel timer.

Note: •

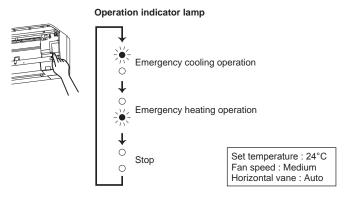
- On and off timers can be set together. S mark indicates the order of timer operations.
- If power failure occurs while on/off timer is set, see page 10 "Auto restart function".

Emergency Operation

When the remote controller cannot be used...

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

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



Note:

- The first 30 minutes of operation is test run. Temperature control does not work, and fan speed is set to High.
- In the emergency heating operation, the fan speed gradually rises to blow out warm air.
- In the emergency cooling operation, the horizontal vanes' position will be reset in about a minute, then the operation will start.

Auto Restart Function

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

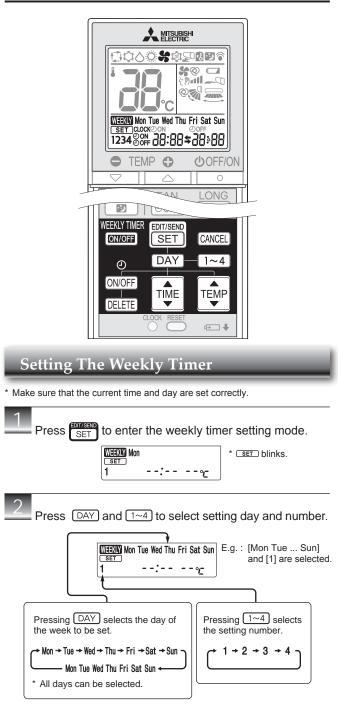
If you do not want to use this function, please consult the service representative because the setting of the unit needs to be changed.

$oldsymbol{N}$ eekly Timer Operation

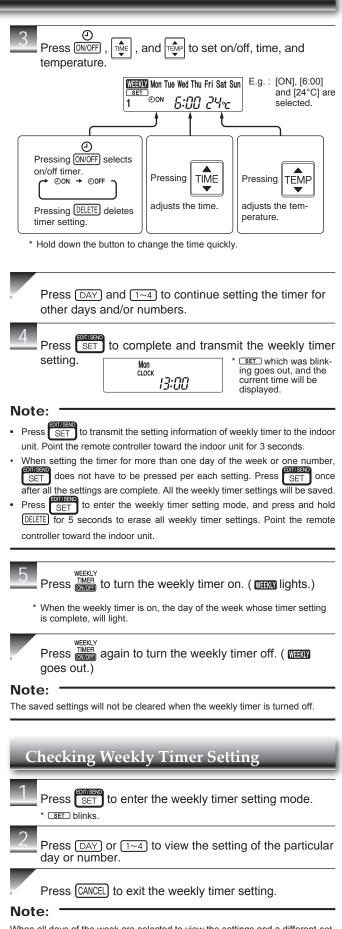
A maximum of 4 on or off timers can be set for individual days of the week.
A maximum of 28 on or off timers can be set for a week.

E.g. : Runs at 24°C from waking up to leaving home, and runs at 27°C from getting home to going to bed on weekdays. Runs at 27°C from waking up late to going bed early on weekends.					
Mon	Setting1	Setting2	Setting3	Setting4	
NION ,	ON	OFF	ON	OFF	
ć	24	°C	2	7°C	
Fri	6:00	8:30	17:30	22:00	
Sat		Setting1		Setting2	
		ON		OFF	
, ,			27°C		
Sun		8:00		21:00	

Note:



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



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

Demand Response and Indoor Unit Operation(Demand Type Only)

Demand response

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

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

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

This unit supports 3 Demand Response Modes (DRMs).

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

Note:

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

DRM cannot be invalidated or changed manually.

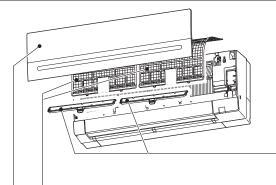
• You might feel this unit does not sufficiently perform cooling or heating operation during DRM.

• Operation settings can be changed as usual with the remote controller during DRM. However, you might not feel cool or warm enough as DRM is prioritized.



Instructions:

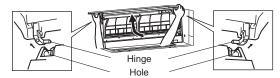
- Switch off the power supply or turn off the breaker before cleaning.
- Be careful not to touch the metal parts with your hands.
- Do not use benzine, thinner, polishing powder, or insecticide.
- When dirt stands out, wash it with kitchen neutral detergent diluted with lukewarm water to the specifi ed concentration, then wipe off the detergent with a damp towel.Use only diluted mild detergents.



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



- · 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 (Anti-Allergy Enzyme filter)

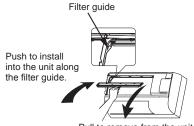
Every 3 months:

- 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-2350FT-E

(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.
- Every year:
- Replace it with a new air cleaning filter for best performance.
- Parts Number MAC-2310FT-E



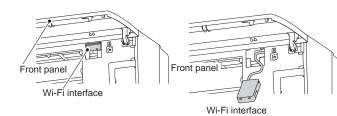
Pull to remove from the unit.

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.

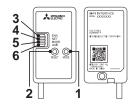
i-Fi Interface Setting Up (VGK Type Only)

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

No	Item	Description
1	Mode Button	Selects modes.
2	Reset Button	Resets the system and all settings.
3	Err LED (Orange)	Shows the network error state.
4	Net LED (Green)	Shows the network state.
5	Mode LED (Orange)	Shows the Access Point mode state.
6	Unit LED (Green)	Shows the indoor unit state.



(1) MODE button

WPS-push

- · Hold down the mode button for 2 seconds to start WPS-push Pairing.
- When WPS-push is enabled on the Wi-Fi interface, the Mode LED starts flashing orange (every second) and the pairing can be completed by enabling WPS-push on the Router.

Access Point mode

- Hold down the mode button for 7 seconds to start Access Point mode. When Access Point mode is enabled on the Wi-Fi interface, the Mode LED starts flashing orange (every 5 seconds).
- To cancel Access Point mode, hold down the mode button for 7 seconds again and ensure that the Mode LED is no longer flashing.

(2) RESET Button

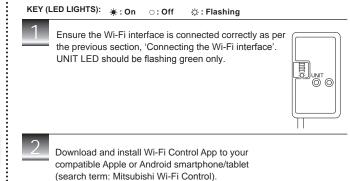
- · Hold down the RESET Button for 2 seconds to reboot the system.
- Hold down the RESET Button for 15 seconds to initialise the Wi-Fi interface to the factory default.

Note:

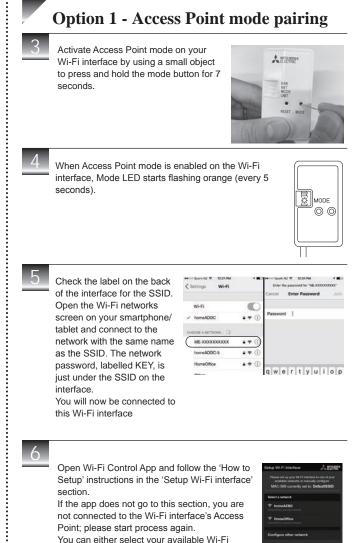
When the Wi-Fi interface is reset to the factory default, ALL the configuration information will be lost. Take great care in implementing this operation.

Information for Users

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



There are two options of connecting



Network, or manually configure a Wi-Fi Network.



Wi-Fi Interface Setting Up (VGK Type Only)



Once completed, the MAC and ID will be filled in 'Add new unit'. Select 'Add' and then 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.
- 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.





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.

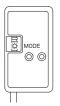


Activate WPS on your Wi-Fi interface by using a small object to press and hold the mode button for 2 seconds.





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



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



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



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





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



LED Pattern

. On o: Off a: Flashing

Software initialising				
Description	ERR (Orange)	NET (Green)	MODE (Orange)	UNIT (Green)
Firmware updating	0	*	*	0
Firmware downloading	0	☆ (every second)	☆ (every second)	0
Reset to the factory default	0	0	۲	۲
Wireless setting		-		
Description	ERR (Orange)	NET (Green)	MODE (Orange)	UNIT (Green)
Access Point mode activated	0	0	☆ (every 5 sec)	☆ (every 5 sec)
WPS-PUSH mode activated	0	0	⊹ (every second)	0
WPS-PIN mode activated	0	0	☆ (every 0.5 sec)	0
Pairing process via WPS completed	0	(5 sec)	0	0
Pairing process via WPS failed	(5 sec)	0	0	0
Connection to server	in progress			
Description	ERR (Orange)	NET (Green)	MODE (Orange)	UNIT (Green)
Communicating with server, and starting up indoor unit communication	0	☆ (*1)	0	*
Communicating with server, and communicating with indoor unit	0	☆ (*1)	0	☆ (every 5 sec)
Normal operation				
Description	ERR (Orange)	NET (Green)	MODE (Orange)	UNIT (Green)
Communicating with server, and communicating with indoor unit	0	☆ (every 5 sec)	0	☆ (every 5 sec)

(*1) Details of flash pattern

• Every 0.5 sec: Searching for server.

• Every second: Registering the information of the Wi-Fi interface to server.

${f W}$ i-Fi Interface Setting Up (VGK Type Only)

Troubleshooting

Description	ERR (Orange)	NET (Green)	MODE (Orange)	UNIT (Green)
Connection to server established, and connection to indoor unit failed	0	☆	0	0
Connection to Router failed, and connection to indoor unit established	0	。 (*3)	0	☆
Connection to Router failed, and starting up indoor unit connection	0	。 (*3)	0	*
Connection to Router failed, and connection to indoor unit failed	0	。 (*3)	0	0
Connection to server failed, and connection to indoor unit established	.☆ (*2)	¢.	0	¢.
Connection to server failed, and starting up indoor unit connection	贷 (*2)	÷¢÷	0	*
Connection to server failed, and connection to indoor unit failed	☆ (*2)	ţĊ.	0	0

(*2) Details of flash pattern

- Every 0.5 sec: IP address setting is invalid.Check DHCP Settings of the Router, or check IP address settings of the Wi-Fi interface. If both settings are correct but still the problem persists, push RESET Button for more than 15 seconds to retry the pairing.
- Every second: DNS setting is invalid.Check DNS Settings of the Router, or check DNS address settings of the Wi-Fi interface. If both settings are correct but still the problem persists, push RESET Button for more than 15 seconds to retry the pairing.
- Twice every 5 sec: Not connected to server. Check if the Router is connected to the internet.
- Once every 5 sec: Not communicating with server properly. push RESET Button for 2 seconds.

(*3) Details when Net LED is off

The Wi-Fi interface failed to connect to the Router. Check the following, and pair the Wi-Fi interface.

- 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 the Router uses WPA2-PSK(AES) encryption.
- Make sure that the number of connected devices to the Router does not exceed the limit.
- Make sure that WPS is working on the Router.
- Make sure that the Router is compatible with the Wi-Fi interface.
- If Static IP has been set make sure it is correct as per Router network settings.

If a problem regarding connecting your Router and the Wi-Fi interface persists, please contact your local Mitsubishi Electric office, as listed on the back of this guide. A list of compatible Routers is also available.

Note:

- Ensure that the Router supports the WPA2-AES encryption setting before starting the Wi-Fi interface setup.
- The End user should read and accept the terms and conditions of the Wi-Fi service before using this Wi-Fi interface.
- To complete connection of this Wi-Fi interface to the Wi-Fi service, the Router may be required.
- This Wi-Fi interface 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 interface 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 interface setting on the last page of this manual, when you set up this Wi-Fi interface.
- At the time of relocation or disposal, reset the Wi-Fi interface to the factory default.

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.

(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

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.



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

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

Symptom	Explanation & Check Points
Indoor Unit	
The unit cannot be operated.	 Is the breaker turned on? Is the power supply plug connected? Is the on timer set? Page 9
The horizontal vane does not move.	 Are the horizontal vane and the vertical vane installed correctly? Is the fan guard deformed? When the breaker is turned on, the horizontal vanes' position will be reset in about a minute. After the reset has completed, the normal hori- zontal 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.
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 horizon- tal vane is suspended for a while, then restarted.	 This is for the swing operation of the horizontal vane to be performed normally.
When swing is selected in cool/ dry/fan mode, the lower horizon- tal vane does not move.	 It is normal that the lower horizontal vane does not move when swing is selected in cool/dry/fan mode.
The airflow direction changes during operation. The direction of the horizontal vane cannot be adjusted with the remote controller.	 When the unit is operated in cool or dry mode, if the operation continues with air blowing down for 0.5 To 1 hour, the direction of the airflow is automatically set to upward position to prevent water from condensing and dripping. In the heating operation, if the airflow tempera- ture is too low or when defrosting is being done, the horizontal vane is automatically set to hori- zontal position. Also the fan speed decreases or the fan stops.
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, though it isn't oper- ated 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 control- ler just before the shutoff of the main power. Refer to "Auto restart function". Page 11
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.
The ceiling and the walls around the indoor unit have smudges.	 It is because the ceiling and the walls get dust in the air due to air circulation by the air condi- tioner.
Water leaks from the indoor unit.	 Is the front panel closed accurately? Page 13 Does water flow smoothly from the edge of the drain hose?
The operation indicator lamp is dim. The unit does not beep.	Is the NIGHT MODE set? Page 9
Multi System	
The indoor unit which is not operating becomes warm and a sound, similar to water flowing, is heard from the unit.	 A small amount of refrigerant continues to flow into the indoor unit even though it is not 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.

Symptom	Explanation & Check Points
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.
Water leaks from the outdoor unit.	 During cool and dry mode operations, pipe or pipe connecting sections are cooled and this causes water to condense. In the heating operation, water condensed on the heat exchanger drips down. In the heating operation, the defrosting operation makes ice forming on the outdoor unit melt and drip down.
White smoke is discharged from the outdoor unit.	 In the heating operation, vapor generated by the defrosting operation looks like white smoke.
Remote Controller	
The display on the remote controller does not appear or it is dim. The indoor unit does not respond to the remote control signal.	 Are the batteries exhausted? Page 5 Is the polarity (+, -) of the batteries correct? Page 5 Did you press the reset button after replacing the batteries? Page 5 Is the setting of multiple indoor units' installation the same as before replacing the batteries? Page 5 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 romo. 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 6 Is the fan setting appropriate? Please change fan speed to High or Super High. Page 7 Are the filters clean? Page 12 Is the fan or heat exchanger of the indoor unit clean? Page 12 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. Is the NIGHT MODE set? Page 9
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 cool- ing effect may not be sufficient.
The room cannot be heated sufficiently.	When the outside temperature is low, the heat- ing 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.
Poor cooling or heating perfor-	Do you have an arrangement with your electric
mance.	company for Demand Response?
The air from the indoor unit smells strange.	 Are the filters clean? Page 12 Is the fan or heat exchanger of the indoor unit clean? Page 12 The unit may suck in an odor adhering to the wall, carpet, furniture, cloth, etc. and blow it out with the air.
Sound	• This sound is gonarated by the expension (
Cracking sound is heard.	 This sound is generated by the expansion/ contraction of the front panel, etc. due to change in temperature.
"Burbling" sound is heard.	 This sound is heard when the outside air is absorbed from the drain hose by turning on the range hood or the ventilation fan, making water flowing in the drain hose to spout out. This sound is also heard when the outside air blows into the drain hose in case the outside wind is strong.
Mechanical sound is heard from the indoor unit.	 This is the switching sound in turning on/off the fan or the compressor.
The sound of water flowing is heard.	This is the sound of refrigerant or condensed water flowing in the unit.
Hissing sound is sometimes heard.	This is the sound when the flow of refrigerant inside the unit is changed.
Heating operation stops and the sound is heard.	 The outdoor unit is defrosting. Heating operation starts after the frosy 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.

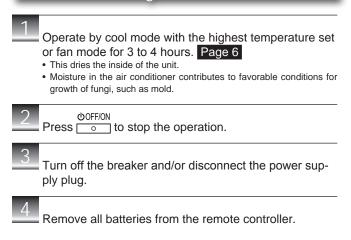
When You Think That Trouble Has Occurred

Symptom	Explanation & Check Points
Timer	
Weekly timer does not operate according to settings.	 Is the on/off timer set? Page 9 Transmit the setting information of the weekly timer to the indoor unit again. When the information is successfully received, a long beep will sound from the indoor unit. If information fails to be received, 3 short beeps will be heard. Ensure information is successfully received. Page 10 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 5
The unit starts/stops the opera- tion by itself.	Is the weekly timer set? Page 10
Others	
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 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



When using the air conditioner again:

Clean the air filter. Page 13

outdoor units are not blocked.



Check that the air inlet and outlet of the indoor and



Check that the earth is connected correctly.

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Refer to the "PREPARATION BEFORE OPERATION", and follow the instructions. Page 5

Installation Place and Electrical Work

Installation place

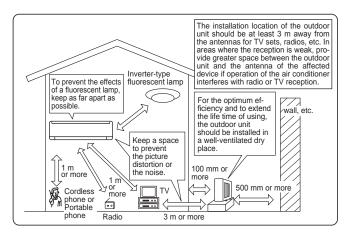
- Avoid installing the air conditioner in the following places.
- Where there is much machine oil.
- Salty places such as the seaside.
- Where sulfide gas is generated such as hot spring, sewage, waste water.
- Where oil is splashed or where the area is filled with oily smoke (such as cooking areas and 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 air from the outdoor unit air outlet is blocked.
 Where the operation sound or air from the outdoor unit bothers the house next
- dor. • The mounting height of indoor unit 1.8 m to 2.3 m is recommended. If it is
- 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.

For Wi-Fi interface

- 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 peo-
- 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.



Electrical work

Provide an exclusive circuit for the power supply of the air conditioner.

Be sure to observe the breaker capacity.

If you have any questions, consult your dealer.

Specifications

Guaranteed operating range

		Indoor	Outdoor
Quality	Upper limit	32°C DB 23°C WB	46°C DB —
Cooling	Lower limit	21°C DB 15°C WB	-10°C DB
l la atia a	Upper limit	27°C DB —	24°C DB 18°C WB
Heating	Lower limit	20°C DB —	-15°C DB -16°C WB
			DB : Dry Bulb WB : Wet Bulb

Wi-Fi interface

Model	MAC-578IF2-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)	46 (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
Software version	xX.00

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	

MEMO

MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BUILDING, 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN