

SPLIT-TYPE AIR CONDITIONERS

INDOOR UNIT

MS-GE50VB MSH-GE50VB



OPERATING INSTRUCTIONS

For user

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

BEDIENUNGSANLEITUNG

For den Anwender

- Für einen sicheren und ordnungsgemäßen Gebrauch des Geräts unbedingt diese Bedienungsanleitung vor der Inbetriebnahme durchlesen.

NOTICE D'UTILISATION

A l'attention des clients

- Pour avoir la certitude d'utiliser cet appareil correctement et en toute sécurité, veuillez lire cette notice d'instructions avant de mettre le climatiseur sous tension.

BEDIENINGSINSTRUCTIES

Voor de klant

- Om dit apparaat correct en veilig te kunnen gebruiken moet u deze bedieningsinstructies voor gebruik eerst doorlezen.

MANUAL DE INSTRUCCIONES

Para los clientes

- Para utilizar esta unidad de forma correcta y segura, lea previamente estas instrucciones de funcionamiento.

LIBRETTO D'ISTRUZIONI

Per gli utenti

- Per utilizzare correttamente ed in tutta sicurezza questo apparecchio, leggere il presente libretto d'istruzioni prima dell'uso.

ΟΔΗΓΙΕΣ ΛΕΙΤΟΥΡΓΙΑΣ

Για το χρήστη

- Για να χρησιμοποιήσετε αυτή τη μονάδα σωστά και με ασφάλεια, βεβαιωθείτε ότι έχετε διαβάσει αυτό το εγχειρίδιο οδηγιών πριν από τη χρήση.

INSTRUÇÕES DE OPERAÇÃO

Para o utilizador

- Para utilizar esta unidade correctamente e com segurança, certifique-se de que lê estas instruções de operação antes da utilização.

BETJENINGSVEJLEDNING

Til kunden

- Læs denne betjeningsvejledning før brug, så enheden bruges korrekt og sikkert.

BRUKSANVISNING

För användaren

- Läs bruksanvisningen innan enheten tas i bruk så att den används säkert och på rätt sätt.

ÇALIŞTIRMA TALİMATLARI

Kullanıcı için

- Bu üniteyi doğru ve güvenli bir biçimde kullanmak için, kullanmadan önce bu işletim talimatlarını okuduğunuzdan emin olun.

ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ

Для пользователя

- В целях правильной и безопасной эксплуатации данного устройства обязательно перед его использованием прочтите настоящее руководство по эксплуатации.

English

Deutsch

Français

Nederlands

Español

Italiano

Ελληνικά

Português

Dansk

Svenska

Türkçe

Русский



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SAFETY PRECAUTIONS





- Since rotating parts and parts which could cause an electric shock are used in this product, be sure to read these "Safety Precautions" before use.
- Since the cautionary items shown here are important for safety, be sure to observe them.
- After reading this manual, keep it together with the installation manual in a handy place for easy reference.






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.

 WARNING	
	<p>Do not connect the power cord to an intermediate point, use an extension cord, or connect multiple devices to a single AC outlet.</p> <ul style="list-style-type: none"> • This may cause overheating, fire, or electric shock.
	<p>Make sure the power plug is free of dirt and insert it securely into the outlet.</p> <ul style="list-style-type: none"> • A dirty plug may cause fire or electric shock.
	<p>Do not bundle, pull, damage, or modify the power cord, and do not apply heat or place heavy objects on it.</p> <ul style="list-style-type: none"> • This may cause fire or electric shock.
	<p>Do not turn the breaker OFF/ON or disconnect/connect the power plug during operation.</p> <ul style="list-style-type: none"> • 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.
	<p>Do not expose your body directly to cool air for a prolonged length of time.</p> <ul style="list-style-type: none"> • This could be detrimental to your health.
	<p>The unit should not be installed, relocated, disassembled, altered, or repaired by the user.</p> <ul style="list-style-type: none"> • An improperly handled air conditioner may cause fire, electric shock, injury, or water leakage.
 	<p>Do not insert your finger, a stick, or other objects into the air inlet or outlet.</p> <ul style="list-style-type: none"> • This may cause injury, since the fan inside rotates at high speeds during operation.

 	<p>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.</p> <ul style="list-style-type: none"> • A continued operation in the abnormal state may cause a malfunction, fire, or electric shock. In this case, consult your dealer.
	<p>When the air conditioner does not cool or heat, there is a possibility of refrigerant leakage. In this case, consult your dealer. If a repair involves recharging the unit with refrigerant, ask the service technician for details.</p> <ul style="list-style-type: none"> • The refrigerant used in the air conditioner is safe. Normally, it does not leak. However, if refrigerant leaks and comes in contact with a heat source such as a fan heater, kerosene heater, or cooking stove, it will create a harmful gas.
 CAUTION	
	<p>Do not touch the air inlet or the aluminum fins of the indoor/outdoor unit.</p> <ul style="list-style-type: none"> • This may cause injury.
	<p>Do not use insecticides or flammable sprays on the unit.</p> <ul style="list-style-type: none"> • This may cause a fire or deformation of the unit.
	<p>Do not expose pets or houseplants to direct airflow.</p> <ul style="list-style-type: none"> • This may cause injury to the pets or plants.
	<p>Do not place other electric appliances or furniture under the indoor/outdoor unit.</p> <ul style="list-style-type: none"> • Water may drip down from the unit, which may cause damage or malfunction.
	<p>Do not leave the unit on a damaged installation stand.</p> <ul style="list-style-type: none"> • The unit may fall and cause injury.

SAFETY PRECAUTIONS

⚠ CAUTION	
	Do not step on an unstable bench to operate or clean the unit. <ul style="list-style-type: none"> This may cause injury if you fall down.
	Do not pull the power cord. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> This may cause the batteries to leak, or cause a fire or explosion.
	Do not operate the unit for a long time at high humidity (80% RH or more), such as with a door or window left open. <ul style="list-style-type: none"> The water condensation in the air conditioner may drip down, wetting or damaging the furniture.
	Do not use the unit for special purposes, such as storing food, raising animals, growing plants, or preserving precision devices or art objects. <ul style="list-style-type: none"> This may cause deterioration of quality, or harm to animals and plants.
	Do not expose combustion appliances to direct airflow. <ul style="list-style-type: none"> This may cause incomplete combustion.
	Before cleaning the unit, switch it OFF and disconnect the power plug or turn the breaker OFF. <ul style="list-style-type: none"> This may cause injury, since the fan inside rotates at high speeds during operation.
	When the unit will be unused for a long time, disconnect the power plug or turn the breaker OFF. <ul style="list-style-type: none"> The unit may accumulate dirt, which may cause overheating or fire.
	Replace all batteries of the remote controller with new ones of the same type. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> Inadequate ventilation may cause oxygen starvation.
	Turn the breaker OFF when you hear thunder and there is a possibility of a lightning strike. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> This may cause fire or electric shock.
	Do not step on or place any object on the outdoor unit. <ul style="list-style-type: none"> This may cause injury if you or the object falls down.

For installation

⚠ WARNING	
	Consult your dealer for installing the air conditioner. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> A non-dedicated power supply may cause overheating or fire.
	Do not install the unit where flammable gas could leak. <ul style="list-style-type: none"> If gas leaks and accumulates around the outdoor unit, it may cause an explosion.
	Earth the unit correctly. <ul style="list-style-type: none"> Do not connect the earth wire to a gas pipe, water pipe, lightning rod, or a telephone ground 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). <ul style="list-style-type: none"> If an earth leakage breaker is not installed, it may cause electric shock.
	Ensure that the drain water is properly drained. <ul style="list-style-type: none"> 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 <p>Immediately stop operating the air conditioner and consult your dealer.</p>	

DISPOSAL

To dispose of this product, consult your dealer.



Fig. 1

Note:

This symbol mark is for EU countries only.
This symbol mark is according to the directive 2002/96/EC Article 10 Information for users and Annex IV, and/or to the directive 2006/66/EC Article 20 Information for end-users and Annex II.

Your MITSUBISHI ELECTRIC product is designed and manufactured with high quality materials and components which can be recycled and/or reused. This symbol means that electrical and electronic equipment, batteries and accumulators, at their end-of-life, should be disposed of separately from your household waste.

If a chemical symbol is printed beneath the symbol (Fig. 1), this chemical symbol means that the battery or accumulator contains a heavy metal at a certain concentration. This will be indicated as follows:

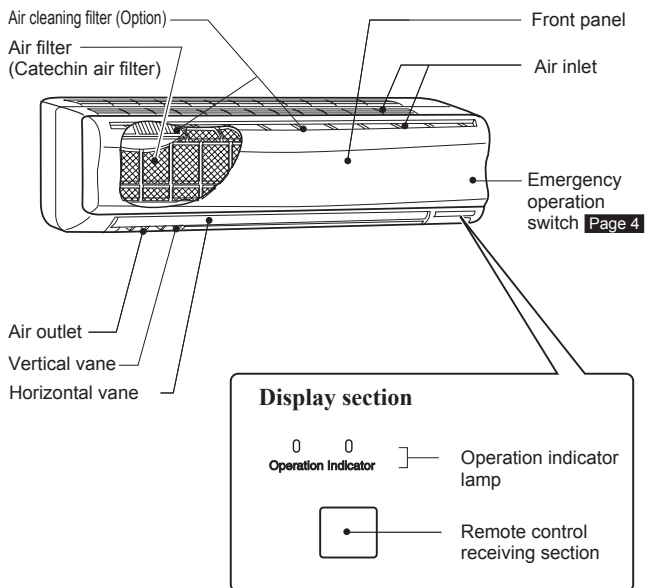
Hg: mercury (0,0005%), Cd: cadmium (0,002%), Pb: lead (0,004%)

In the European Union there are separate collection systems for used electrical and electronic products, batteries and accumulators.

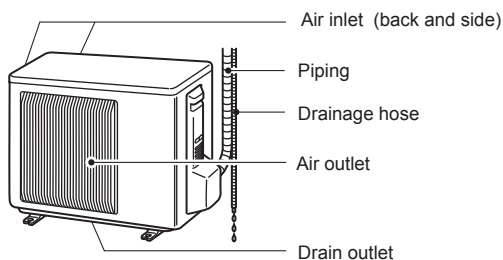
Please, dispose of this equipment, batteries and accumulators correctly at your local community waste collection/recycling centre.

NAME OF EACH PART

Indoor unit

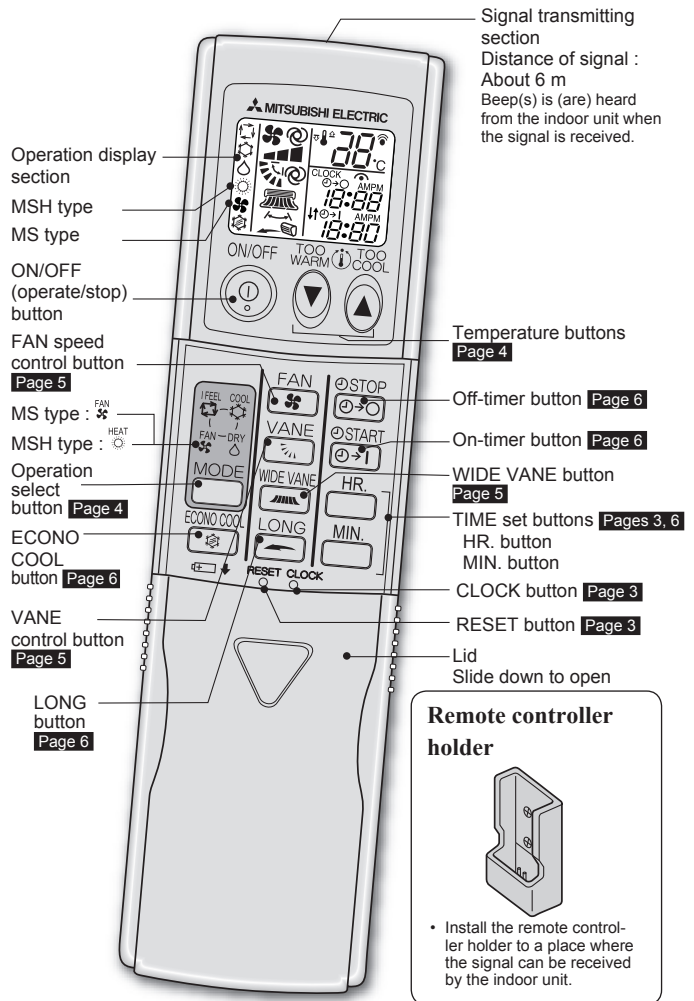


Outdoor unit



Outdoor units may be different in appearance.

Remote controller

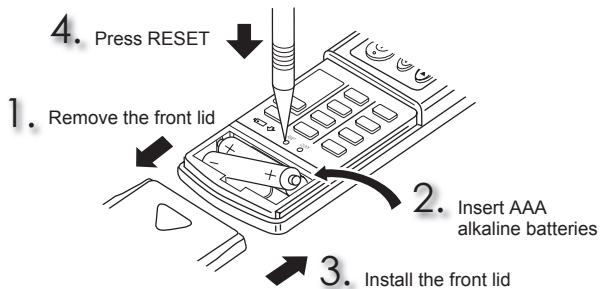


Use the remote controller provided with the unit only.
Do not use other remote controllers.

PREPARATION BEFORE OPERATION

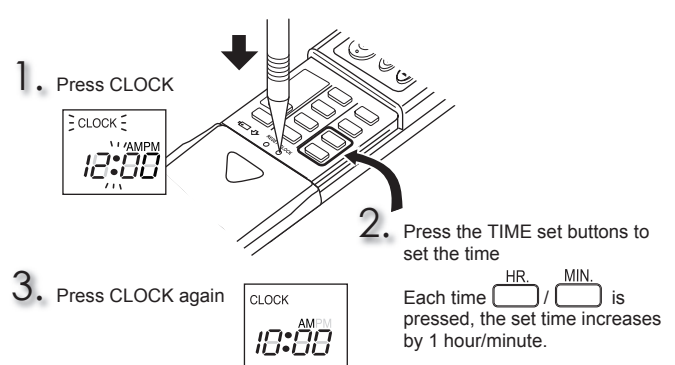
Before operation: Insert the power supply plug into the power outlet and/or turn the breaker on.

Installing the remote controller batteries



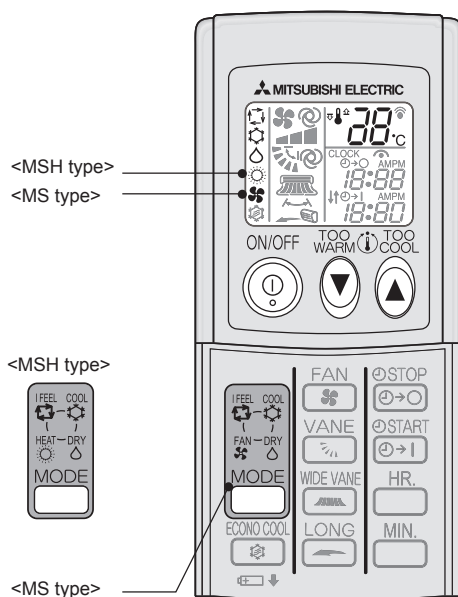
- Make sure the polarity of the batteries is correct.
- Do not use manganese batteries. The remote controller could malfunction.
- Do not use rechargeable batteries.
- Replace all batteries with new ones of the same type.
- Batteries can be used for approximately 1 year. However, batteries with expired shelf lives last shorter.
- Press RESET gently using a thin instrument.
If the RESET button is not pressed, the remote controller may not operate correctly.

Setting current time



- Press CLOCK gently using a thin instrument.

SELECTING OPERATION MODES



1 Press to start the operation.

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

→ → → → <MS type>

→ → → → <MSH type>

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

Press to stop the operation.
• The same setting is selected the next time by simply pressing .

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

Lighted Not lighted

I FEEL mode

The unit selects the operation mode according to the room temperature when I FEEL is selected. When the room temperature is higher than 25°C, COOL is selected (set temperature: 24°C). When the room temperature is lower than 25°C, DRY is selected. However, when operation is stopped and then started within 2 hours, the mode which has been selected previously is operated. With MSH type, when the room temperature is lower than 23°C, HEAT is selected.

Note:

During COOL operation, the set temperature may not be changed when the room temperature is more than 2°C higher than the set temperature. In this case, please wait until the room temperature drops to within 2°C of the set temperature.

COOL mode

Enjoy cool air at your desired temperature.

DRY mode

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

FAN mode <MS type>

Circulate the air in your room.

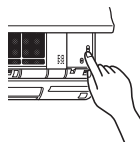
HEAT mode <MSH type>

Enjoy warm air at your desired temperature.

Emergency operation

When the remote controller cannot be used...

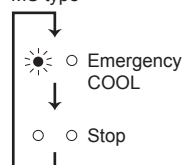
Emergency operation can be activated by pressing the emergency operation switch (E.O.SW) on the indoor unit.



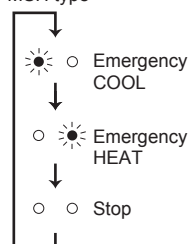
Each time the E.O.SW is pressed, the operation changes in the following order:

Operation indicator lamp

<MS type>



<MSH type>



Set temperature : 24°C
Fan speed : Medium
Horizontal vane : Auto

Note:

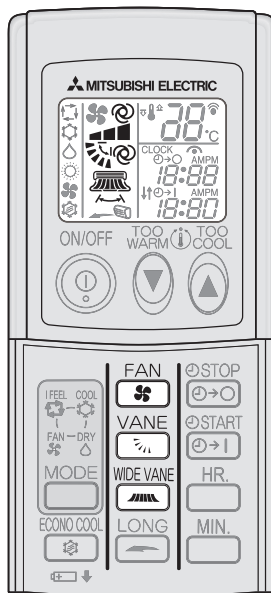
The first 30 minutes of operation is test run. Temperature control does not work, and fan speed is set to High.


Auto restart function

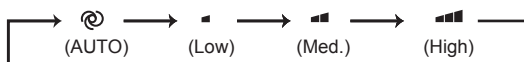
If a power failure occurs or the main power is turned off during operation, "Auto restart function" automatically starts operation in the same mode as the one set with the remote controller just before the shutoff of the main power. When timer is set, timer setting is cancelled and the unit starts operation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


FAN SPEED AND AIRFLOW DIRECTION ADJUSTMENT

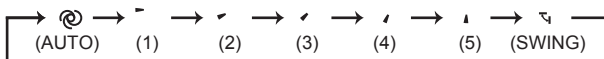


FAN
Press  to select fan speed. Each press changes fan speed in the following order:




• Two short beeps are heard from the indoor unit when set to AUTO.

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



• Two short beeps are heard from the indoor unit when set to AUTO.

WIDE VANE
Press  to select horizontal airflow direction. Each press changes airflow direction in the following order:



Vertical airflow direction

(AUTO)

The vane is set to the most efficient airflow direction. COOL/DRY:horizontal position. FAN/HEAT:downward position.

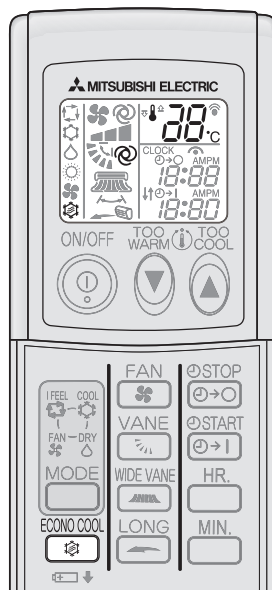
(Manual)


For efficient air conditioning, select upper position for COOL/DRY. During COOL/DRY, when the vane is set to position (4) or (5), the vane automatically moves to horizontal position after 1 hour to prevent water dripping.




(Swing)

The vane moves up and down intermittently.

ECONO COOL OPERATION



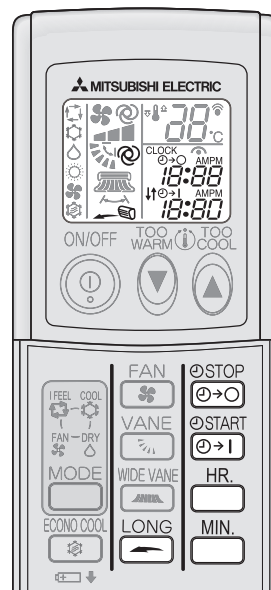
Press  during COOL mode **page 4** to start ECONO COOL operation.
The unit performs swing operation vertically in various cycle according to the temperature of the unit. Set temperature is set 2°C higher automatically.


Press  again to cancel ECONO COOL operation.
• Pressing  or  also cancels ECONO COOL operation.


What is “ECONO COOL”?

Swing air flow (change of air flow) makes you feel cooler than constant air flow. So, even though the set temperature is automatically set 2°C higher, it is possible to perform cooling operation with keeping comfort. As a result, energy can be saved.

LONG OPERATION





Press  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 following buttons are pressed: ON/OFF button, VANE button, ECONO COOL button.

TIMER OPERATION (ON/OFF TIMER)

1 Press  or  during operation to set the timer.



 (ON timer) : The unit will turn ON at the set time.



 (OFF timer) : The unit will turn OFF at the set time.

*  or  blinks.


* Make sure that the current time is set correctly. **Page 3**

2 Press  and  to set the time of timer.

Each time  /  is pressed, the set time increases by 1 hour/10 minutes.

Press  or  again to cancel timer.

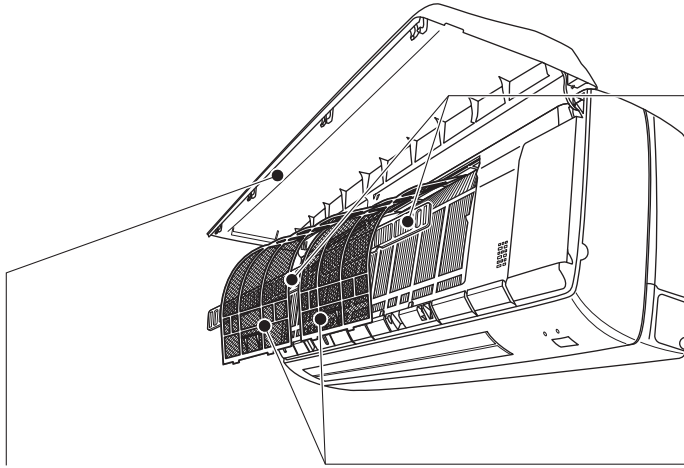
Note:

- ON and OFF timers can be used in combination.  mark indicates the order of timer operations.
- If power failure occurs while ON/OFF timer is set, see **page 4** “Auto restart function”

CLEANING

Instructions:

- Switch off the power supply or turn off the breaker before cleaning.
- Be careful not to touch the metal parts with your hands.
- Do not use benzine, thinner, polishing powder, or insecticide.
- Use only diluted mild detergents.
- Do not expose parts to direct sunlight, heat, or flames to dry.
- Do not use water hotter than 50°C.



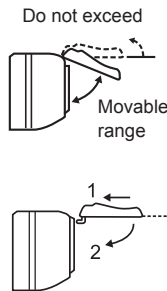
Front panel

Do not open the front panel up past the level position.

- The panel may come off in order to prevent it from being damaged.
- The panel may also come off if the upper part of the panel is pulled down.

If the front panel comes off, attach it as explained below.

1. Keep the front panel level with one hand, and insert the hinges one by one with the other hand into the notches at the left, right, and center of the top of the indoor unit until they click into place.
2. Close the front panel.



Air cleaning filter (Option)

Back side of air filter

- **If the air cleaning filter is clogged, it may lower the unit's capacity or cause condensation at the air outlet.**
- The air cleaning filter is disposable.
- If the color of the filter turns brown, replace the filter at once.
- Replace it with a new air cleaning filter **every 4 months** for best performance.
- Parts Number **MAC-1700FT**

Air filter (Catechin air filter)

- **Clean every 2 weeks**
- Remove dirt by a vacuum cleaner, or wash with water.
- Dry it well in shade before installing it.

What is "Catechin air filter" ?

Catechin is a bioflavonoid that is found in green tea that has both antiviral and antioxidant qualities. In addition to these benefits, Catechin also offers excellent deodorizing characteristics. Catechin air filter uses this compound to not only improve air quality but also prevent the spread of bacteria and viruses in the room.

Note:

Clean the filters regularly for best performance and to reduce power consumption.

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.	<ul style="list-style-type: none"> Is the breaker turned on? Is the power supply plug connected? Is the ON timer set? Page 6
The unit cannot be operated for about 3 minutes when restarted.	<ul style="list-style-type: none"> This protects the unit according to instructions from the microprocessor. Please wait.
The fan stops during the DRY operation.	<ul style="list-style-type: none"> In DRY operation, the unit operates using the same refrigerant circuit as in COOL operation. DRY operation time has to be reduced in order to lower humidity without much room temperature decreasing. So the compressor sometimes stops, and at the same time the indoor fan stops. This prevents water condensed on the heat exchanger from evaporating again.
Mist is discharged from the air outlet of the indoor unit.	<ul style="list-style-type: none"> The cool air from the unit rapidly cools moisture in the air inside the room, and it turns into mist.
The swing operation of the HORIZONTAL VANE/VERTICAL VANE is suspended for a while, then restarted.	<ul style="list-style-type: none"> This is for the swing operation of the HORIZONTAL VANE/VERTICAL VANE to be performed normally.
The air flow direction changes during operation. The direction of the horizontal vane cannot be adjusted with the remote controller.	<ul style="list-style-type: none"> 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 air flow is automatically set to horizontal position to prevent water from condensing and dripping. 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 horizontal position.
The operation is stopped for about 10 minutes in the heating operation.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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 4.
Outdoor Unit	
Water leaks from the outdoor unit.	<ul style="list-style-type: none"> During COOL and DRY operations, pipe or pipe connecting sections are cooled and this causes water to condense. In the heating operation, water condensed on the heat exchanger drips down. In the heating operation, the defrosting operation makes water frozen on the outdoor unit melt and drip down.
White smoke is discharged from the outdoor unit.	<ul style="list-style-type: none"> In the heating operation, vapor generated by the defrosting operation looks like white smoke.

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.	<ul style="list-style-type: none"> Are the batteries exhausted? Page 3 Is the polarity (+, -) of the batteries correct? Page 3 Are any buttons on the remote controller of other electric appliances being pressed?
Does not cool or heat	
The room cannot be cooled or heated sufficiently.	<ul style="list-style-type: none"> Is the temperature setting appropriate? Page 4 Is the fan setting appropriate? Please change fan speed to higher setting. Are the filters clean? Page 7 Is the fan or heat exchanger of the indoor unit clean? Are there any obstacles blocking the air inlet or outlet of the indoor or outdoor unit? Is a window or door open? 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. When the outside temperature is low, the heating effect may not be sufficient.
Air does not blow out soon in the heating operation.	<ul style="list-style-type: none"> Please wait as the unit is preparing to blow out warm air.
Airflow	
The air from the indoor unit smells strange.	<ul style="list-style-type: none"> Are the filters clean? Page 7 Is the fan or heat exchanger of the indoor unit clean? The unit may suck in an odor adhering to the wall, carpet, furniture, cloth, etc. and blow it out with the air.
Sound	
Cracking sound is heard.	<ul style="list-style-type: none"> This sound is generated by the expansion/contraction of the front panel, etc. due to change in temperature.
"Bubbling" sound is heard.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> This is the switching sound in turning on/off the fan or the compressor.
The sound of water flowing is heard.	<ul style="list-style-type: none"> This is the sound of refrigerant or condensed water flowing in the unit.

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

- When water leaks or drips from the indoor unit.
- When the 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 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 4**
 - This dries the inside of the unit.
 - Moisture in the air conditioner contributes to growth of fungi, such as mold.
- 2 Press  to stop the operation.
- 3 Turn off the breaker and/or disconnect the power supply plug.
- 4 Remove all batteries from the remote controller.

When using the air conditioner again:

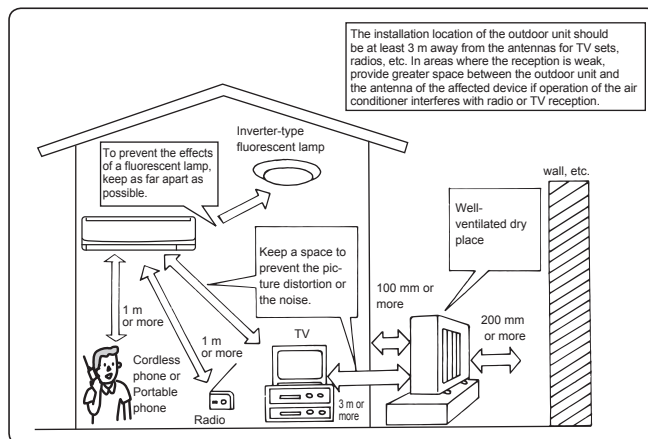
- 1 Clean the air filter. **Page 7**
- 2 Check that the air inlet and outlet of the indoor and outdoor units are not blocked.
- 3 Check that the earth is connected correctly.

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 a hot spring.
- Where oil is splashed or where the area is filled with oily smoke.
- Where there is high-frequency or wireless equipment.
- Where the air from the outdoor unit air outlet is blocked.
- Where the operation sound or air from the outdoor unit does not bother the house next door.



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	Set name		MS-GE50VB	MSH-GE50VB
	Indoor		MS-GE50VB	MSH-GE50VB
	Outdoor		MU-GE50VB	MUH-GE50VB
Function			Cooling	Cooling Heating
Power supply			~ /N, 230 V, 50 Hz	
Capacity		kW	5.0	5.0 5.2
Input		kW	1.81	1.78 1.61
Weight	Indoor	kg	16	
	Outdoor	kg	38	40
Refrigerant filling capacity (R410A)		kg	1.35	1.45
IP code	Indoor		IP 20	
	Outdoor		IP 24	
Permissible excessive operating pressure	LP ps	MPa	1.64	
	HP ps	MPa	4.15	
Noise level	Indoor (High/Med./Low)		42/38/34	
	Outdoor		52	52 52

Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	32°C DB 23°C WB	43°C DB —
	Lower limit	21°C DB 15°C WB	21°C DB —
Heating	Upper limit	27°C DB —	24°C DB 18°C WB
	Lower limit	20°C DB —	-10°C DB -11°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

