



SPLIT-TYPE AIR CONDITIONERS

OPERATING INSTRUCTIONS

MSH09NW 2

MSH12NN 2

MSH15NN 2

MSH17NN 2

Mr. SLIM

For customers

Thank you very much for purchasing this Mitsubishi room air conditioner.

- To use this unit correctly and safely, be sure to read this operating instructions before using the unit and keep this manual carefully for later reference.
- Be sure to receive a guarantee card from your dealer and check that the purchased model, name, etc. are entered correctly.
- This air conditioner should not be installed by the customer (Safety and performance will not be assured).

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SAFETY PRECAUTIONS

- Before using the unit, carefully read these “safety precautions” and use correctly.
- Since these cautionary items shown here are important for safety, be sure to observe them. Marks and their meanings are as shown below.

	WARNING	Incorrect handling could cause a serious hazard, such as death, serious injury, etc with a high probability.
	CAUTION	Incorrect handling could cause a serious hazard depending on the conditions.

Meanings of symbols used in this manual are as shown below.

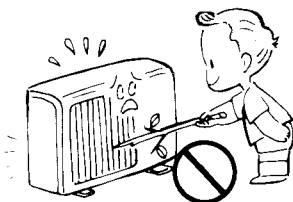
	Be sure not to do.
	Be sure to follow the instruction.
	Danger of an electric shock. Be careful.

- After reading this manual, keep it available together with the installation manual for prompt reference.

⚠ WARNING

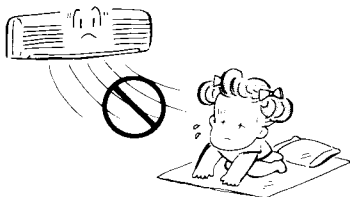
Do not insert your finger or stick, etc. into the air inlet/air outlet.

- Since the fan rotates at high speed, this may cause an injury.

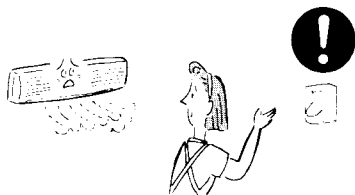


Do not expose the skin to cool air directly for long time.

- This could damage your health.

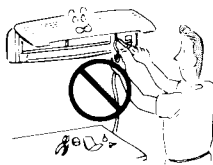


If an abnormality occurs, stop the air conditioner, and turn off the breaker.



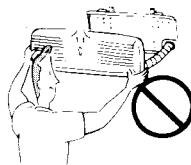
Repair or relocation should not be done by the customer.

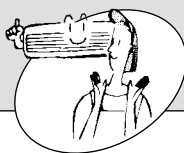
- If this is done incorrectly, it may cause a fire, electric shock, injury by dropping of the unit, water leakage, etc. Consult your dealer.



The customer should not install this unit.

- If this is done incorrectly, it may cause a fire, electric shock, injury by dropping of the unit, water leakage, etc. Consult your dealer.



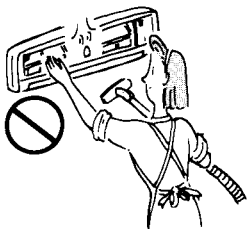


SAFETY PRECAUTIONS

⚠ CAUTION

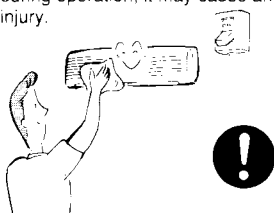
When the air filter is to be removed, do not touch the metal parts of the indoor unit.

- It may cause an injury.



Ensure power is turned off at the circuit breaker before cleaning the unit.

- Since the fan rotates at high speed during operation, it may cause an injury.



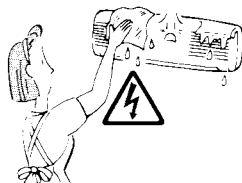
Do not operate switches with wet hands.

- It may cause an electric shock.



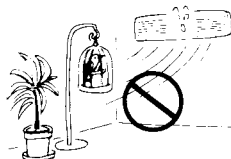
Do not clean the air conditioner with water.

- Water may enter the unit and degrade the insulation. It may cause an electric shock.



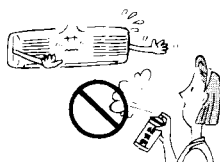
Do not put a pet or house plant where will be exposed to direct air flow.

- This could injure the pet or plant.



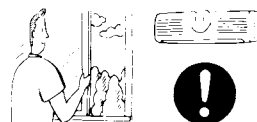
Do not apply an insecticide or flammable spray.

- It may cause a fire or deformation of the cabinet.



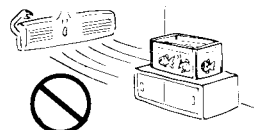
Ventilate well when used together with a stove, etc.

- An oxygen shortage may occur.



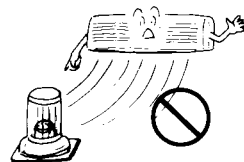
Do not use for special purposes.

- Do not use this air conditioner to preserve precision devices, food, animal, plants and art objects. It may cause deterioration of quality, etc.



Do not put a stove, heater, etc. where it is exposed to direct air flow or near the air conditioner and remote controller.

- It may cause imperfect combustion.
- The heat may deform the front panel and remote controller.



⚠ WARNING

- Consult your dealer for installing the air conditioner.

⚠ CAUTION**Apply grounding.**

- Do not connect a grounding wire to a gas pipe, water pipe, lightning rod or ground wire of a telephone. If a grounding is incorrect, it may cause an electric shock.

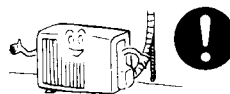
If the air conditioner is installed in a high humidity area or near a water source, a Ground Fault Interrupt (GFI) circuit breaker should be installed to protect against shock.

Do not install the unit where flammable gas could leak.

- If gas leak and collect around the unit, it may cause an explosion.

**Drain water should be fully drained.**

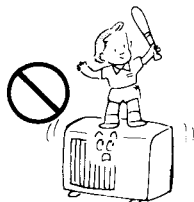
- If the drainage route is incomplete, water may drop from the unit. It may wet and spoil furniture.



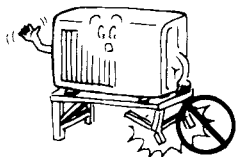
If the air conditioner will not be operated for long periods of time, disconnect power to the system or turn the circuit breaker off.

**Do not step on the indoor/outdoor unit and do not put anything on it.**

- It may cause an injury through dropping or falling down.

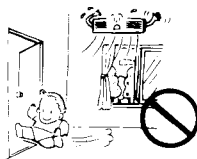
**Do not leave on installation stand which is damaged.**

- The unit may drop or fall down and cause an injury.



Do not operate for a long time in high humidity, e.g. leaving a door or window open.

- In the cooling mode, if it is operated in a room with high humidity (80%r.h. or more) for a long time, water condensed in the air conditioner may drop and may wet and spoil furniture, etc.



Do not step onto an unstable bench when attaching/detaching the panel.

- It may cause an injury, etc. by falling down.





NAME OF EACH PART

NAME OF EACH PART

Indoor unit

MSH09NW

Air cleaning filter
(White bellows type)(OPTION)

Deodorizing filter
(Gray spong type)(OPTION)

Air filter

Vertical vanes

Front panel

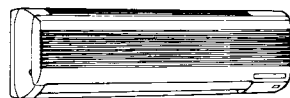
Air inlet

Remote control receiving section

Horizontal vane

Remote controller

MSH12NN,MSH15NN,MSH17NN



Operation section

(when the front panel is opened)

MSH09NW

Emergency operation switch

Display section

MSH09NW

Operation Indicator lamp

Receiving section

MSH12NN,MSH15NN,MSH17NN

Emergency operation switch

MSH12NN,MSH15NN,MSH17NN

Operation Indicator lamp

Receiving section

Outdoor unit

MUH09NW

Air inlet (back and side)

Piping

Drain hose from indoor unit

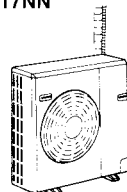
Air outlet

Drain outlet

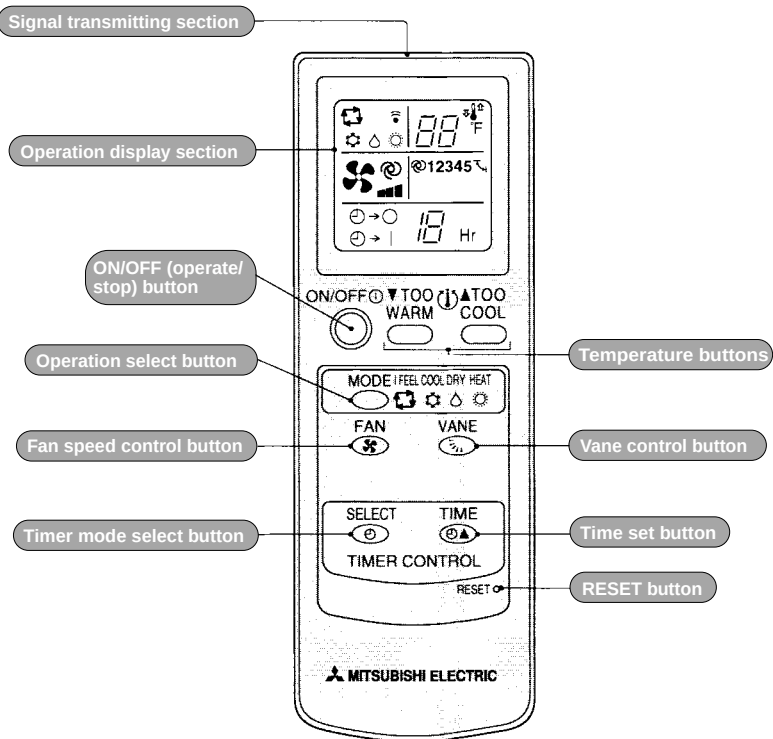
MUH12NN,MUH15NN



MUH17NN



Remote controller



(This diagram shows an overall view.)



PREPARATION BEFORE OPERATION

Auto restart function

These models are equipped with the auto restart function. If you do not want to use this function, please consult the service representative because the setting of the unit needs to be changed.

Auto restart function is ...

When the unit is controlled with the remote controller, the operation mode, the set temperature, and the fan speed are memorized by the memory. If a power failure occurs or the main power is turned off during operation, "Auto restart function" sets automatically to start operating in the same mode as set with the remote controller right before the shutoff of main power. (Refer to page 5 in detail.)

Indoor unit

Insert the power plug into the power outlet and/or turn the breaker on.



WARNING

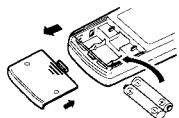
Remove dirt from the power plug and insert the plug securely.
If dirt adheres to the plug or insertion is incomplete, it may cause a fire or an electric shock.

Remote controller

1

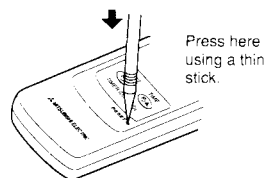
Remove the back lid and insert batteries. Then reattach the back lid.

Check if the polarity of the batteries is correct.



2

Press the RESET button.



■ If the RESET button is not pressed, the remote controller may not operate correctly.

Handling of the remote controller

- The range that the signal can reach is about 20 feet when pointed at the front of the indoor unit.
- When the button is pressed, one or two beeps will be heard from the indoor unit. If no sound is heard, operate again.
- Use the remote controller carefully. If it is dropped, thrown or gets wet, it may not operate.

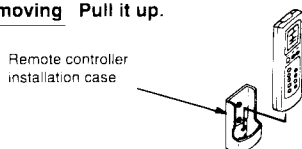
When installing on a wall, etc.

- Install it using the remote controller installation case in a position where the signal reception sound (beep) can be heard from the indoor unit when the **ON/OFF** button is pressed.

How to install/remove the remote controller

Installing Insert the remote controller downward.

Removing Pull it up.



Dry-cell batteries

Reference for replacing batteries

When the signal does not operate the indoor unit, or the display becomes dim, replace the batteries with new batteries (size AAA).

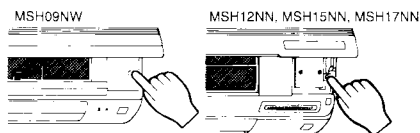
- Though both alkaline batteries and manganese batteries can be used, alkaline batteries are recommended because their service life is longer than that of manganese batteries.
- The service life of an alkaline battery is about 1 year. However, since the recommended usable time limit is indicated (month/year) on the bottom of the battery, a battery the time limit of which is approaching may become exhausted sooner.
- Replace 2 batteries with new batteries of the same type.
- Do not use rechargeable batteries.
- To prevent liquid leakage, take out all batteries when the remote controller is not going to be used for a long time.
- Dispose of exhausted batteries in the correct manner.

WHEN THE REMOTE CONTROLLER CANNOT BE USED (EMERGENCY OPERATION)

When the batteries of the remote controller run out or remote controller malfunctions, **EMERGENCY OPERATION** can be done using the **EMERGENCY OPERATION** switch.

1 Press the **EMERGENCY OPERATION** switch.

* Each time the switch is pressed, the unit changes the **EMERGENCY COOL MODE**, **EMERGENCY HEAT MODE** and **STOP MODE**.

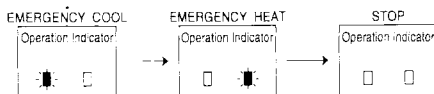


Details of operation are as shown below. However, the temperature control does not work for about 30 minutes at first and the unit is set to the continuous operation mode with the fan speed set to "Medium".

Operation Mode	COOL	HEAT
Set temperature	75°F	75°F
Fan speed	Medium	Medium
Horizontal vane	Auto	Auto

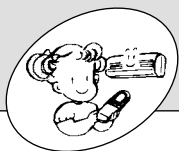
The operation mode is indicated on the operation indicator lamp on the indoor unit.

Operation Indicator Lamp



To stop EMERGENCY OPERATION, press EMERGENCY OPERATION switch again.

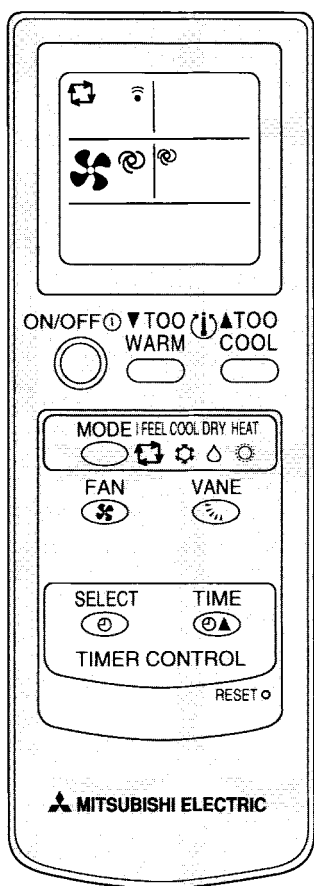
* Each time the switch is pressed, the unit changes the **EMERGENCY COOL MODE**, **EMERGENCY HEAT MODE** and **STOP MODE**.



“I FEEL...” AUTO OPERATION

With the “ (I FEEL...)” auto operation mode, the optimum room condition can be set automatically with a one-touch operation.

“I FEEL...” AUTO OPERATION



● To start operation:



Press the button.

When the “ (I FEEL...)” mode is selected, the air conditioner is automatically controlled at the optimum temperature.

● To stop operation:



Press the button.

If you feel slightly warm:



Press the button to lower the temperature.

One press lowers the temperature by about 2°F.

If you feel slightly cool:

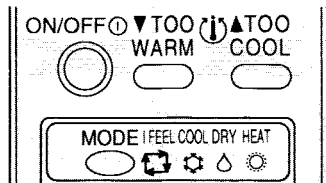


Press the button to raise the temperature.

One press raises the temperature by about 2°F.

When “ (I FEEL...)” is not selected, press the button until the auto operation mode is set.

Each time the button is pressed, the operation mode is changed in sequence: (I FEEL...) → (COOL) → (DRY) → (HEAT).



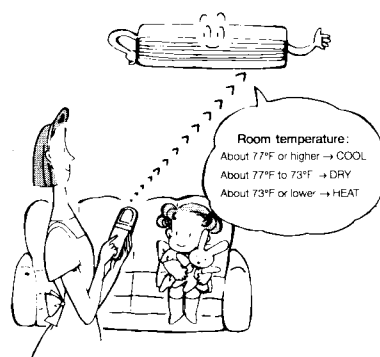
Description of "I FEEL..." mode

Details of operation

According to the room temperature when the operation starts, the operation mode is automatically selected between COOL, DRY and HEAT. However, when operation is started again within 2 hours after the operation is stopped, the same operation mode before it is stopped is selected. The operation mode selected first is not changed even if the room temperature changes. If the operation mode does not match the room condition, select the required operation mode by pressing the  button.

Details of "I FEEL..." auto operation

Room temperature when started	Operation mode	Target temperature (initial state)
About 77°F or higher	COOL	About 75°F
About 77°F to 73°F	DRY	—
About 73°F or lower	HEAT	About 79°F



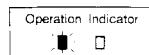
NOTE

COOL: When the room temperature is 4°F higher than the set temperature, the set temperature may not be changed since the air conditioner is operating to reach the target (set) temperature. In this case, please wait until the room temperature drops to within 4°F of the set temperature and then operate.

HEAT: When the room temperature is 4°F lower than the set temperature, the set temperature may not be changed since the air conditioner is operating to reach the target (set) temperature. In this case, please wait until the room temperature rises to within 4°F of set temperature and then operate.

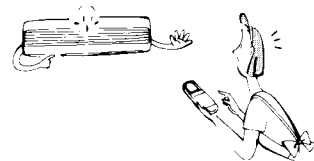
Display details on the indoor unit

The operation indicator at the right side of the indoor unit indicate the operation state.



Operation Indicator lamp

Indication	Operation state	Difference between set temperature and room temperature
	This shows that the air conditioner is operating to reach the target temperature. Wait for some time until the target temperature is obtained.	About 4°F or more
	This shows that the room temperature is approaching the target temperature.	About 4°F or less



Description of "AUTO RESTART FUNCTION"

- This unit is equipped with the auto restart function. When the main power is turned on, the air conditioner will start operation automatically in the same mode as set with the remote controller before the shutoff of main power.
- If the unit was set to off with the remote controller before the shutoff of main power, it will remain stopped even after the main power is turned on.
- If the unit was in the emergency operation before the shutoff of main power, it will start operation, at main power on, in the same mode as set with the remote controller before the emergency operation.
- Since the air conditioner has been shipped from the factory with the cooling mode saved in the memory for auto restart function, it starts cooling operation when the user turns on the main power for the first time after installation.



MANUAL OPERATION (COOL,

To select the COOL, DRY or HEAT mode

1

Press the  button.

2

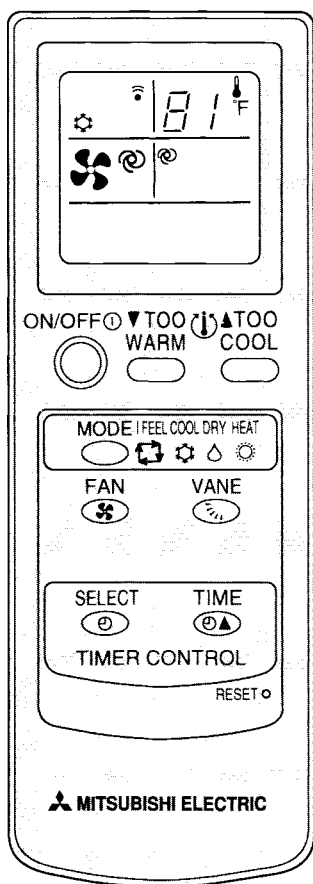
Select the operation mode by pressing the  button.

Each time this button is pressed, the operation mode is changed in sequence:  (I FEEL...) →  (COOL) →  (DRY) →  (HEAT).

● To stop operation:

Press the  button.

After the operation mode is set once, the operation starts in the mode set previously from the next time by simply pressing the  button.



When the set temperature is to be changed:

■ Press the  button to lower the temperature.

One press lowers the temperature by about 2°F.

■ Press the  button to raise the temperature.

One press raises the temperature by about 2°F.

In HEAT operation

■ If the air conditioner absorbs too much heat from the air, it may be overloaded. Following a judgement made by the microprocessor, the fan in the outdoor unit is automatically stopped to protect the air conditioner. When the outdoor unit's fan is stopped, frost may form on the outdoor unit, but this is not a problem.

In DRY operation

■ The temperature control (temperature setting) cannot be done.
■ The room temperature is slightly lowered in this operation mode.

Note

- When the ambient temperature is too high, the room temperature may not reach the set temperature since the unit operates to cool under high load. (COOL MODE)

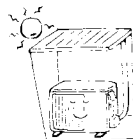
The details displayed on the operation section of the indoor unit are explained on page 5.

DRY,HEAT)

CONVENIENT INFORMATION

COOL For effective cooling

- ① Close the windows and pull down blinds. Sunshine is reduced and cooling efficiency increases.
- ② Paste a heat shield film (generally available) on the window. Heat entering the room is reduced.
- ③ Block the outdoor unit from direct sunlight. This saves energy.



HEAT

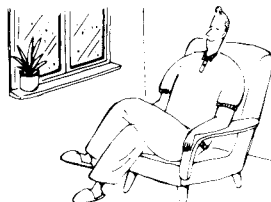
Comfortable warmth depends on the the temperature difference from the external temperature.

It is recommended that the set temperature in the heating operation does not differ from the external temperature too much. Though there is a regional difference, as a reference, a set temperature between about 72°F and 75°F is most suitable.

DRY

The humidity at which humans feel comfortable

When air contains too much moisture, humans feel clammy. Humidity is related with temperature and wind. The humidity at which humans feel comfortable is 60%~75%RH in summer, 55%~70%RH in winter.



MANUAL OPERATION (COOL, DRY, HEAT)

Description of "AUTO RESTART FUNCTION"

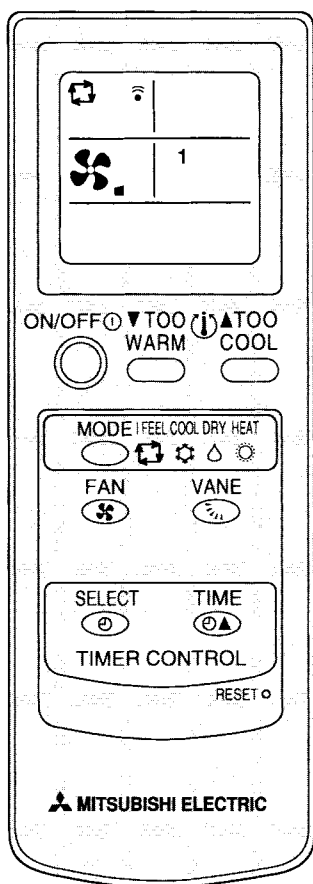
■ Refer to page 5.



AIR FLOW VELOCITY AND DIRECTION

AIR FLOW velocity and direction can be selected as required.

AIR FLOW VELOCITY AND DIRECTION ADJUSTMENT



To change the AIR FLOW velocity, press the  button.

Each time the button is pressed, the fan speed is changed in sequence:  (Lo) →  (Med) →  (Hi) →  (AUTO).

- Use the  (Hi) notch to cool or heat the room more.

To change the AIR FLOW blowing direction vertically, press the  button.

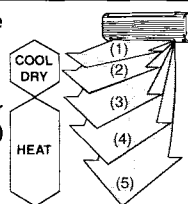
Each time the button is pressed, the angle of the horizontal vane is changed in sequence: - (1) → (2) → (3) → (4) → (5) →  (SWING) →  (AUTO).

SWING OPERATION

Use the swing operation for the air flow to reach all corners of the room.

Recommended horizontal vane range

Use the  (AUTO) position usually. Use positions - (1) or (2) in the COOL or DRY mode and use positions (3) to (5) in the HEAT mode.



Note

- In the cooling operation, when the air conditioner is operated with AIR FLOW blowing down (4) or (5) for 1 hour, the AIR FLOW direction is automatically set to level to prevent condensed water from dropping.
- Adjust the vertical AIR FLOW direction using the remote controller. If the horizontal vane is moved manually, it may cause trouble.
- In the heating operation, if the air flow temperature is too low or when defrosting is done, the horizontal vane position is set to - (1).

SECTION ADJUSTMENT

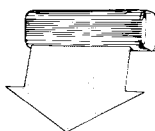
AUTO AIR FLOW DIRECTION CONTROL OPERATION

◆ When the AUTO mode is selected with the  button, the position of the horizontal vane is automatically set to correspond to the operation mode to perform effective operation.

(1) HEAT • When the air flow temperature is too low, the air is blown out horizontally.



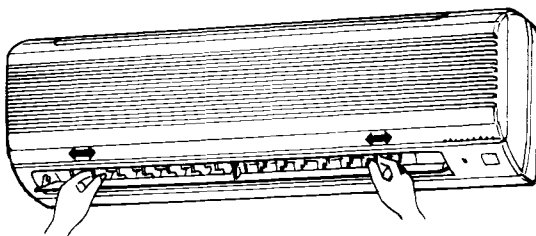
• When the air flow temperature rises, the air is blown out downwards.



(2) COOL, DRY • The AIR FLOW blows level.



To change the horizontal direction of the AIR FLOW
move the vertical vanes manually.



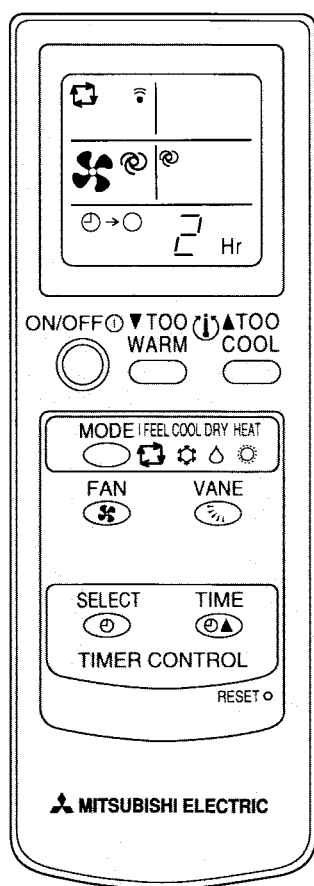
Adjust the vanes before operation starts.
Since the horizontal vane moves automatically, your fingers may be caught.



TIMER OPERATION (OFF/ON T

TIMER

It is convenient to set the timer when you go to bed, when you get home, when you get up, etc.



1

Select the timer mode by pressing the **SELECT** button during operation.

Each time this button is pressed, the timer mode is changed in sequence: $\odot \rightarrow \circ$ (OFF TIMER) $\rightarrow \odot \rightarrow$ (ON TIMER) $\rightarrow$ TIMER RELEASE.

2

Set the time of the timer using the **TIME** button.

Each time this button is pressed, the set time increases by 1 hour to 12 hours.

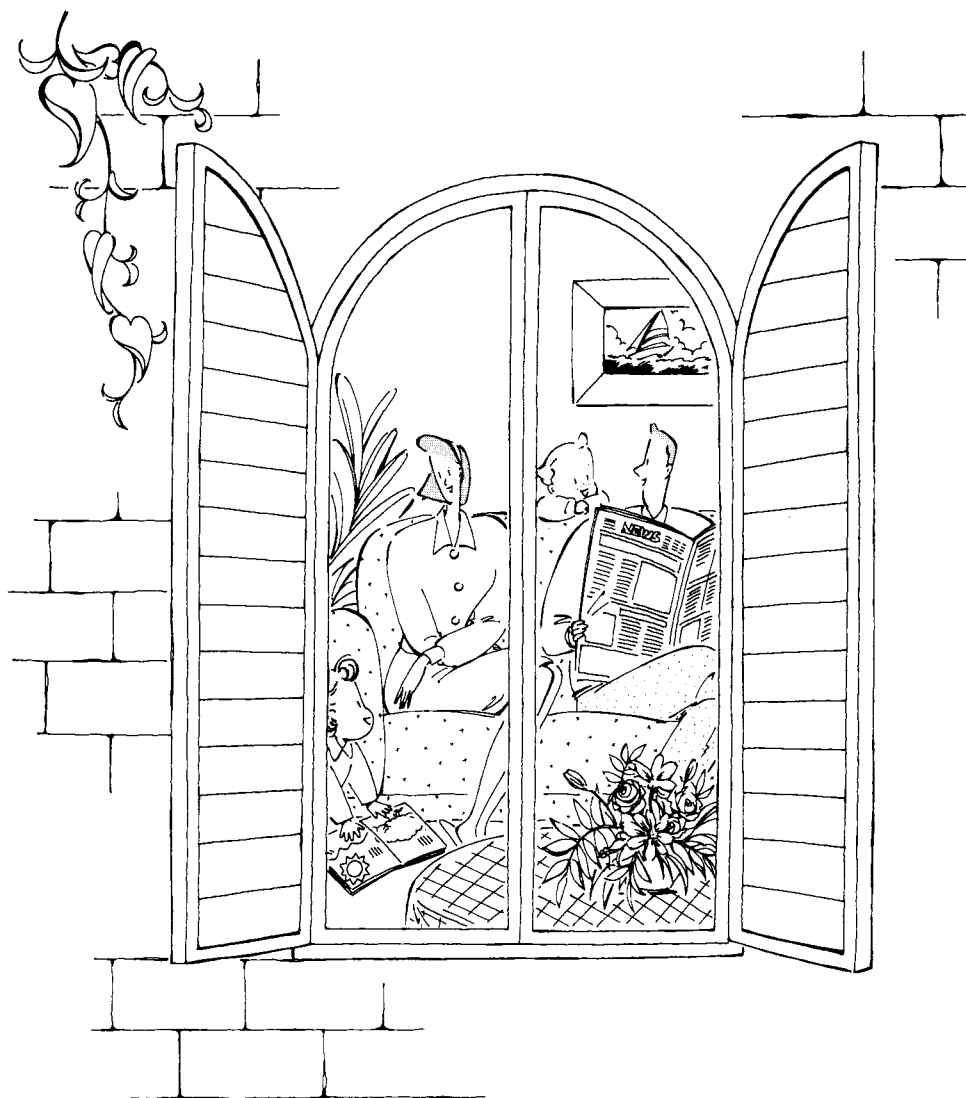
● To release the timer:

Select the **TIMER RELEASE** mode by pressing the **SELECT** button. (Refer to **1**.)

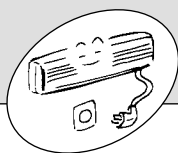
Note

- The OFF TIMER and the ON TIMER can not be set at the same time.
- If the main power is turned off or a power failure occurs while OFF/ON timer is active, the timer setting is cancelled. As these models are equipped with the auto restart function, the air conditioner should start operating at the same time that a power has restored.

TIMER)



TIMER OPERATION (OFF/ON TIMER)

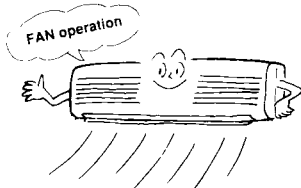


WHEN THE AIR CONDITIONER IS NOT GOING TO BE USED FOR A LONG TIME

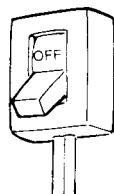
When it is not going to be used for a long time:

- 1 Perform FAN operation for 3 or 4 hours to dry the inside of the air conditioner.

● To perform FAN operation, the highest set temperature is selected the MANUAL COOL OPERATION mode. (Page 6)



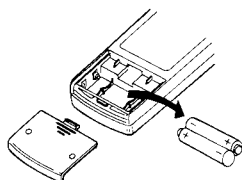
- 2 Turn off the breaker.



CAUTION

Turn off the breaker when the air conditioner is not going to be used for a long time.

- 3 Remove the batteries from the remote controller.

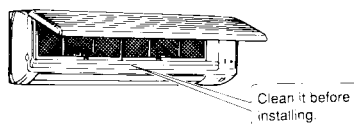


CAUTION

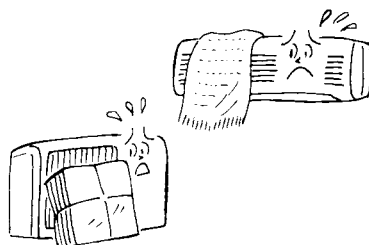
To prevent liquid leakage, take out all batteries when the remote controller is not going to be used for a long time.

When the air conditioner is to be used again:

- 1 Clean the air filter and install it in the indoor unit.
(Refer to page 10 for cleaning it.)



- 2 Check that the air inlet and outlet of the indoor/outdoor unit are not blocked.



- 3 Check that the ground wire is connected correctly.

CAUTION

Apply grounding.

Do not connect a grounding wire to a gas pipe, water pipe, lightning rod or ground wire of a telephone. If a grounding is incorrect, it may cause an electric shock.



MAINTENANCE

Before starting maintenance

Turn off the breaker.



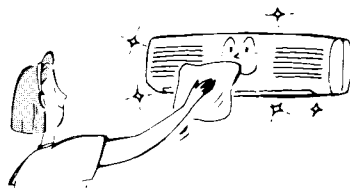
⚠ CAUTION

When the unit is to be cleaned, switch off and turn off the breaker.

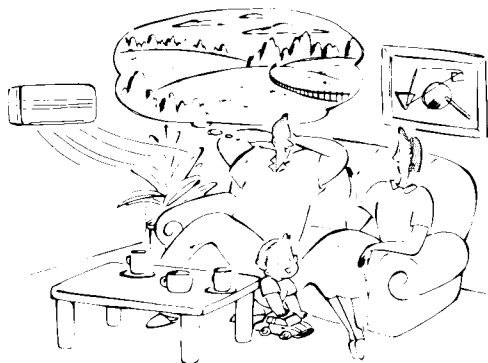
Since the fan rotates at high speed during operation, it may cause an injury.

Cleaning the indoor unit

Clean using soft dry cloth.



Do not use gasoline, benzine, polishing powder and detergent. And do not spray with insecticide. The unit may be damaged.





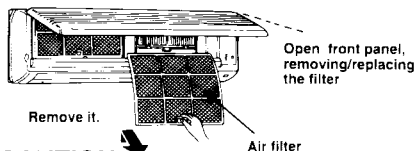
CLEANING THE AIR FILTER / DEODORIZING FILTER

When the front panel is to be opened, do not open it up to the level position. If you do, the front panel may come off.

Cleaning the air filter

(about once every 2 weeks)

1 Remove the air filter.



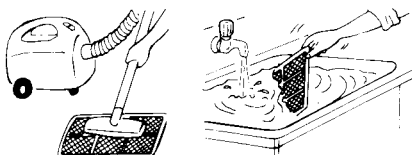
CAUTION

When the air filter is to be removed, do not touch the metal parts of the indoor unit.

It may cause an injury.

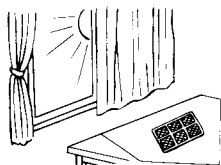
2 Clean dirt from the air filter using a vacuum cleaner or by washing with water.

- If dirt is conspicuous, wash with a solution of detergent in lukewarm water.
- If hot water (120°F or more) is used, it may be deformed.

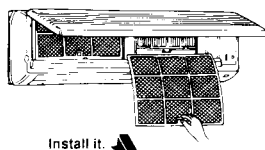


3 After washing with water, dry well in the shade.

- Do not expose the air filter to direct sunlight or heat from a fire when drying it.



4 Install the air filter.

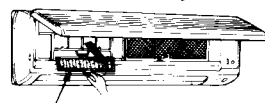


Cleaning the deodorizing filter

(about once every 2 weeks) (OPTION)

1 Remove the air filter and then remove the deodorizing filter (gray sponge type).

- The deodorizing filter is harmless to humans. However, to keep its effect, be sure to hold the frame and do not touch the surface of the filter with your hand.



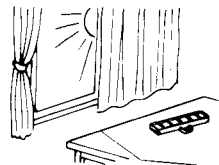
2 Soak the filter together with frame in lukewarm water for about 15 minutes.

- If dirt is conspicuous, use a solution of detergent in lukewarm water.
- If hot water (120°F or more) is used, it may be deformed.
- Do not use a scrubbing brush or sponge. It may damage the surface of the filter.
- Do not use a chlorine detergent.



3 After washing with water/lukewarm water, dry completely in the shade.

- Do not expose the deodorizing filter to direct sunlight or heat from a fire when drying it.



4 Install the deodorizing filter (gray sponge type) and then install the air filter.



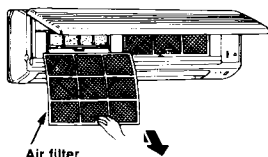


REPLACEMENT OF THE DEODORIZING FILTER/AIR CLEANING FILTER (OPTION)

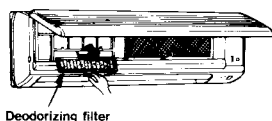
When the capacity is lowered because of dirt, etc., It is necessary to replace the deodorizing filter/air cleaning filter.

Deodorizing filter replacement (replace about once a year)

1 Remove the air filter.



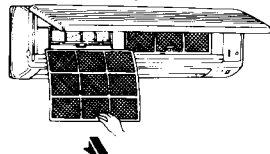
2 Remove the deodorizing filter (gray sponge type).



3 Install a new deodorizing filter.



4 Install the air filter. (Securely close the front panel.)



Deodorizing filter

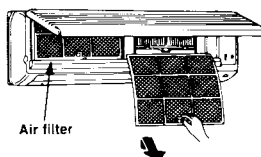
- Cleaning is necessary about once every 2 weeks. However, if dirt is conspicuous, clean more often.
- When the color of the filter is not restored even if the filter is washed as the procedure shown in the left (Cleaning the deodorizing filter) or when the filter becomes black, replace the filter with a new one.
- Standard interval for the filter replacement is about 1 year.

Optional parts Optional parts are available from your local dealer.

Name of part	Type name
DEODORIZING FILTER	MAC-1500DF (for MSH09) MAC-1600DF (for MSH12/15/17)
AIR CLEANING FILTER	MAC-1000FT (for MSH09) MAC-1100FT (for MSH12/15/17)

Air cleaning filter replacement (replace about once every 4 months)

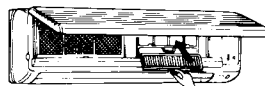
1 Remove the air filter.



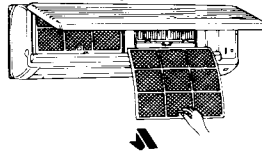
2 Remove the air cleaning filter. (white bellow type).



3 Install a new air cleaning filter.



4 Install the air filter. (Securely close the front panel.)

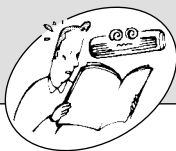


Air cleaning filter

- 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. The standard usable term is about 4 months. However, if the color of the filter turns to dark brown, replace soon.

CLEANING THE AIR FILTER /
DEODORIZING FILTER

REPLACEMENT OF THE DEODORIZING
FILTER/AIR CLEANING FILTER (OPTION)



BEFORE CONTACTING THE SERVICEMAN, CHECK THE FOLLOWING AGAIN

WHEN YOU THINK THAT TROUBLE
HAS OCCURRED

BEFORE CONTACTING THE SERVICEMAN,
CHECK THE FOLLOWING AGAIN

The air conditioner cannot be operated.

Check the following.

- 1 The breaker is turned on and fuse is not blown.



- 2 The ON-timer is not set.



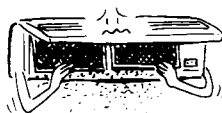
Cannot be cooled and heated sufficiently.

Check the following.

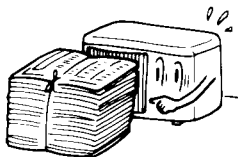
- 1 The temperature setting is correct.



- 2 Air filter is not dirty.



- 3 Outlet of the outdoor unit are not blocked.



Display of the remote controller
does not appear.

The remote control signal
cannot be received if it is not
near the air conditioner.

- 1 The batteries are exhausted.



- 2 The polarity (+, -) of the batteries is confused.



When a power failure occurs.

↓
Check the following after the
restoration of the power.

If the air conditioner had operated before the power failure, as these models are equipped with the auto restart function, the air conditioner should start operating again. (Refer to Description of "AUTO RESTART FUNCTION" on page 5.)

- 1 Does the air conditioner start operating again?

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

In the following cases, stop operation and consult your dealer.

- The remote control signal may not be received in a room with an electronic ON/OFF type fluorescent lamp (inverter type fluorescent lamp, etc.) is used.
- In a weak radio wave area, when the air conditioner is operated, noise may be generated in radio reception.
- When thunder is heard, stop operation and turn off the breaker. Otherwise, the electrical parts may be damaged.



WHEN YOU THINK THAT TROUBLE HAS OCCURRED

Question

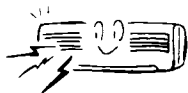
The air conditioner cannot be operated for 3 minutes when re-started.



Answer (not a malfunction)

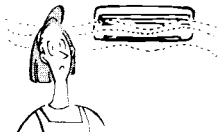
- This protects the air conditioner by instructions from the microprocessor. Wait.

Crack sound is heard.



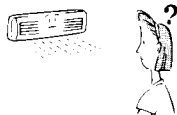
- This sound is generated by the expansion/contraction of the front panel, etc. due to changes of temperature.

Room smells strange.



- The air conditioner circulates an odor adhering to walls, carpet, furniture, cloth, etc. and blows it out with air.

Fan stops during the DRY operation.



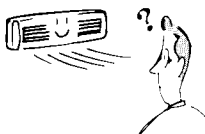
- If water condensing to the heat-exchanger evaporated again, the humidity increases. To prevent this, fan operation of the indoor unit stops when the room temperature has dropped sufficiently.

Water flowing sound is heard.



- This is the sound of refrigerant flowing inside the air conditioner.
- This is the sound of condensed water on the heat-exchanger flowing.
- This is a sound of the heat-exchanger defrosting.

Air Flow direction is changed during operation.



- When the air conditioner is operated in the COOL or DRY mode, if the operation continues with air blowing down for 1 hour, the direction is automatically set to level to prevent condensed water from dropping.
- When the air conditioner is operated in the HEAT mode, if the air flow temperature is too low or when defrosting is done, the air flow direction is automatically set to level.



WHEN YOU THINK THAT TROUBLE HAS OCCURRED

Question

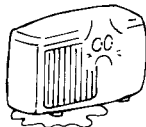
A mechanical sound is heard from the indoor unit.



Answer (not a malfunction)

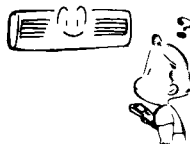
- This is the sound of the switch turning ON/OFF the fan or compressor.

Water leaks from the outdoor unit.



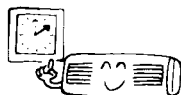
- During cooling operation, pipe or pipe connector section are cool and cause water condensed.
- Water or water vapor created by the defrosting operation is collected.
- Water adhering to the heat exchanger during heating operation drips.

Air does not blow out quickly in the heating operation.



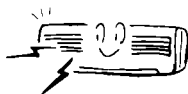
- Wait as the air conditioner is preparing to blow out warm air.

The operation is stopped for about 10 minutes in the heating operation.



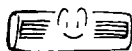
- Defrosting of the outdoor unit is being done (Defrosting operation). Since this is completed with 10 minutes, wait. (When the external temperature is too low and humidity is too high, frost is formed).

Sometimes, a hissing sound is heard.



- This is the sound when the flow of refrigerant inside the air conditioner is switched.

The air conditioner does not operate when the main power is turned on.



- If the unit was turned off with the remote controller or emergency operation switch before the shutoff of main power, the unit will not operate just by turning on the main power. Turn on the unit with the remote controller.



INSTALLATION, RELOCATION AND INSPECTION

Installation place

Avoid installing the air conditioner in the following places.

- Where flammable gas could leak.

⚠ CAUTION

Do not install the unit where flammable gas could leak.

If gas leak and collect around the unit, it may cause an explosion.

- Where there is much machine oil.
- Salty place such as the seaside.
- Where sulfide gas is generated such as a hot spring.
- Where oil is splashed or is filled with oily smoke.

Electrical work

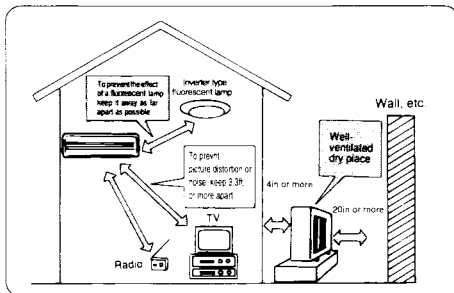
- Provide an exclusive circuit for power supply of the air conditioner.
- Use the correct power (voltage and frequency) indicated on the unit to operate the air conditioner and use only fuses or breakers with specified capacity. Do not use pieces of wire instead of fuses.

⚠ WARNING

- The customer should not install this unit. If this is done incorrectly, it may cause a fire, electric shock, injury by dropping of the unit, water leakage, etc.
- Unit should be installed by licensed contractor according to local code requirements.
- Do not connect using branched outlet or an extension cord, and do not attach many loads one electric outlet. A fire or electric shock may result from poor contact, poor insulation, exceeding the permissible current, etc. Consult your dealer.

⚠ CAUTION

- Apply grounding. Do not connect a grounding wire to a gas pipe, water pipe, lightning rod or ground wire of a telephone. If a grounding is incorrect, it may cause an electric shock.
- If the air conditioner is installed in a high humidity area or near a water source, a Ground Fault Interrupt (GFI) circuit breaker should be installed to protect against shock.



Inspection and maintenance

- When the air conditioner is used for several seasons, the capacity may be lowered due to dirt inside the unit.
- Depending on the use condition, an odor may be generated or dehumidified water may not drain out smoothly due to dirt, dust, etc.
- It is recommended to apply inspection and maintenance (charged) by a specialist in addition to normal maintenance. Consult your dealer.

Also consider operation sound

- Do not put an object around the air outlet of the outdoor unit. It may cause lowering of capacity or increase operation sound.
- If abnormal sound is heard during operation, consult your dealer.

Relocation

- When the air conditioner is to be removed or re-installed because of rebuilding, moving, etc., special techniques and work are required.

⚠ WARNING

Repair or relocation should not be done by the customer.

If this is done incorrectly, it may cause a fire, electric shock, injury by dropping of the unit, water leakage, etc. Consult your dealer.

Disposal

To dispose of this product, consult your dealer.

WHEN YOU THINK THAT TROUBLE HAS OCCURRED

INSTALLATION, RELOCATION AND INSPECTION

If you have any questions, consult your dealer.



MITSUBISHI ELECTRIC

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