



Floor And Ceiling-Type Air-Conditioners MCF-C13UV/C18UV/C24UV

CE

**OPERATING INSTRUCTIONS
BEDIENUNGSANLEITUNG
NOTICE D'UTILISATION
GEBRUIKSAANWIJZING
MANUAL DE INSTRUCCIONES
LIBRETTO D'ISTRUZIONI
ΟΔΗΓΙΕΣ ΛΕΙΤΟΥΡΓΙΑΣ
INSTRUÇÕES DE OPERAÇÃO
BRUGSANVISNING
BRUKSANVISNING
İŞLETME TALİMATLARI
РУКОВОДСТВО ПО
ЭКСПЛУАТАЦИИ**

**FOR USER
FÜR BENUTZER
POUR L'UTILISATEUR
VOOR DE GEBRUIKER
PARA EL USUARIO
PER L'UTENTE
ΓΙΑ ΤΟΝ ΧΡΗΣΤΗ
PARA O UTILIZADOR
TIL BRUGER
FÖR ANVÄNDAREN
KULLANICI İÇİN
ДЛЯ ПОЛЬЗОВАТЕЛЯ**

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 these cautionary items shown here are important for safety, be sure to observe them.

Marks and their meanings are as shown below.

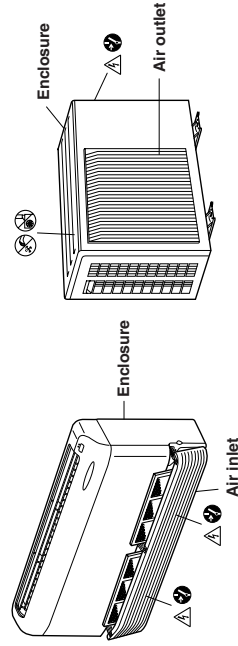
Warning: Incorrect handling could cause a serious hazard, such as death, serious injury etc. with a high probability.

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.
- ⚠ (Black) : Never insert your finger or a stick, etc.
- ⚠ (Black) : Never step onto the indoor/outdoor unit and do not put anything on them.
- ⚠ (Yellow) : Danger of electric shock. Be careful.
- ⚠ (Blue) : Be sure to shut off the power.
- After reading this manual, keep it together with the installation manual in a handy place for easy reference.

Warning mark position and Safety device

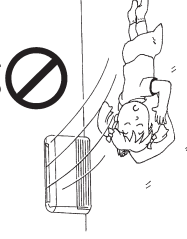


- This air conditioner is NOT intended for use by children or infirm persons without supervisions.

Warning

- Do not expose your skin directly to cool air for a long time.

This could damage your health.



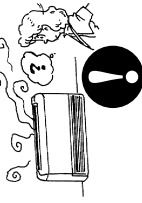
- Do not insert your finger or a stick, etc. into the air inlet/air outlet.

- Since the fan rotates at high speed, this may cause an injury to ensure that they do not play with the air conditioner.



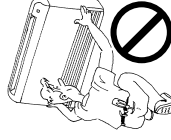
- When an abnormality (burning smell, etc) occurs, stop the air conditioner and turn off the breaker.

If the unit continues to be operated in an abnormal condition, it may cause a fire, trouble, etc. In this case, consult your dealer.



- Repairs or relocation should not be done by the customer.

If this is done incorrectly, it may cause a fire, an electric shock, or injury from the unit falling, water leaking, etc.



- The customer should not install this unit.

If this is done incorrectly, it may cause a fire, an electric shock, or injury from the unit falling, water leaking, etc.



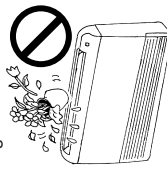
- Do not turn the breaker off/on during operation.

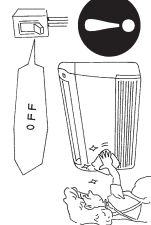
- This may cause a fire due to spark, etc.
- Be sure to turn off the breaker absolutely after switching the indoor unit off with the remote controller.

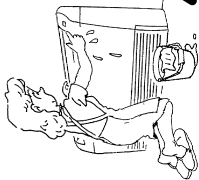


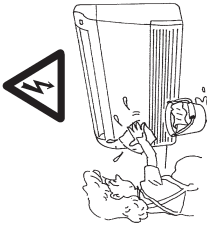
⚠ Caution

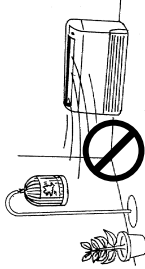
- **Do not put a vase or glass on the indoor unit.**
Water dripping into the indoor unit may deteriorate the insulation, causing electric shock.

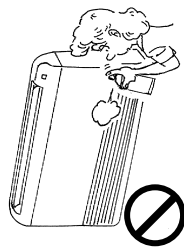

- **When the unit is to be cleaned, switch it off and turn off the breaker.**
Since the fan rotates at high speed during operation, this may cause an injury.



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

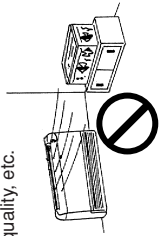

- **Do not clean the air conditioner with water.**
Water may enter the unit and degrade the insulation. This may cause an electric shock.

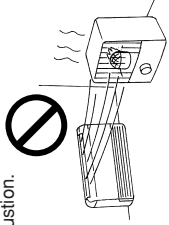

- **Do not put a pet or houseplant where it will be exposed to direct air flow.**
This could injure the pet or plant.

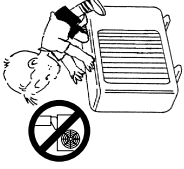

- **Do not use an insecticide or flammable spray.**
This may cause a fire or deformation of the cabinet.

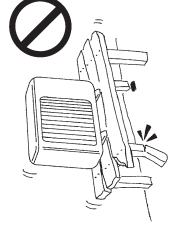

- **Ventilate well in using the unit with a stove, etc.**
An oxygen shortage may occur.

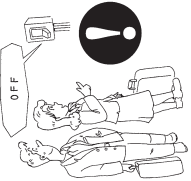

- **Do not use the unit for special purposes.**
Do not use this air conditioner to preserve precision devices, food, animals, plants and art objects. This may cause deterioration of quality, etc.


- **Do not put a stove, etc. where they are exposed to direct air flow.**
This may cause imperfect combustion.


- **Do not leave the unit on an indoor/outdoor unit.**
This may cause an injury, etc. if you or something falls down.

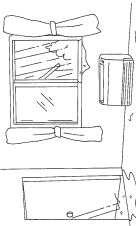

- **Do not step on or put anything on the indoor/outdoor unit.**
This may cause an injury, etc. if you or something falls down.



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

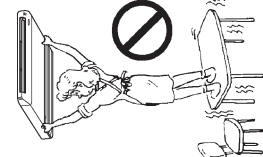


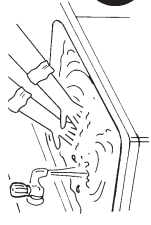
⚠ Caution

- **Do not operate the unit for a long time in high humidity, e.g. leaving a door or window open.**
In the cooling mode, if the unit is operated in a room with high humidity (80%RH or more) for a long time, water condensed in the air conditioner may drop and wet or damage furniture, etc.


- **Do not charge or disassemble the batteries and do not throw them into a fire.**
This may result in leakage, fire or an explosion.



- **Do not step onto an unstable bench when maintaining the unit, etc.**
This may cause an injury, etc. if you fall down.



- **If liquid from the alkaline batteries gets onto your skin or clothes, wash it well with clean water.**
If liquid from the alkaline batteries gets into your eyes, wash them well with clean water and consult a doctor at once.

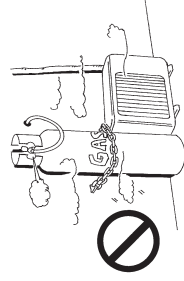


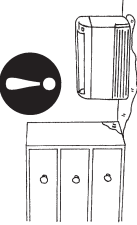
For installation

- ⚠ **Warning**
Consult your dealer for installation of the air conditioner.
- ⚠ **Caution**
■ **Earth the unit.**
Do not connect the earth to a gas pipe, water pipe, lightning rod or the earth of a telephone. If the earthing is incorrect, it may cause an electric shock.


- **Install an earth leakage breaker depending on the place where the air conditioner is to be installed (humid place, etc.).**
If the earth leakage breaker is not installed, it may cause an electric shock.

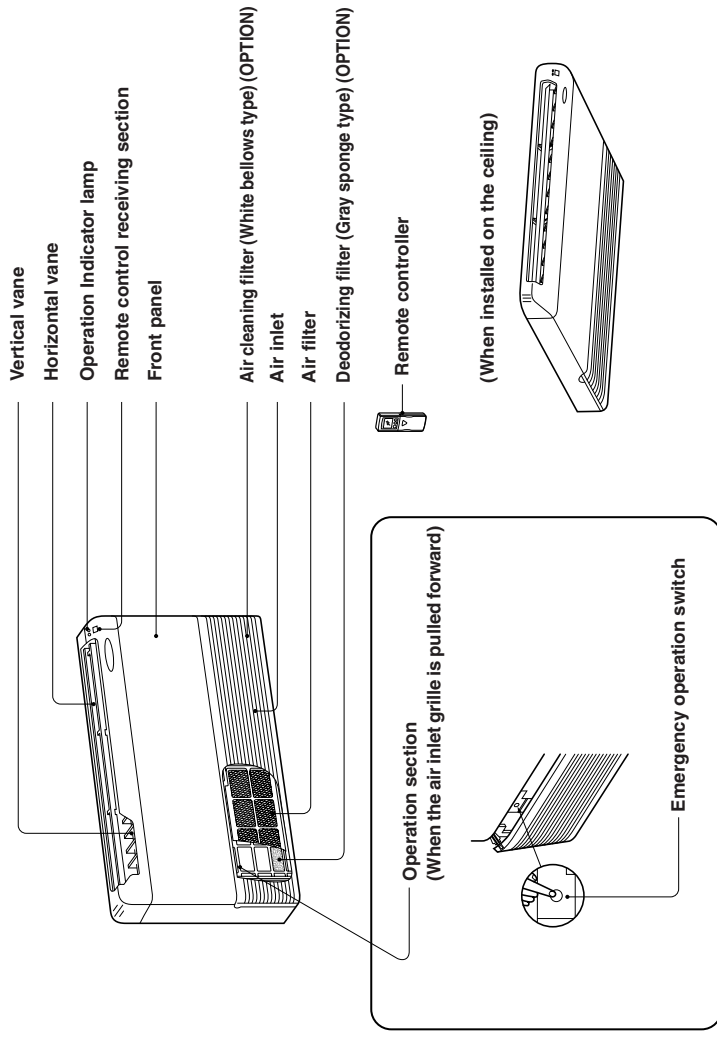

- **Do not install the unit where flammable gas could leak.**
If gas leaks and collects around the unit, it may cause an explosion.


- **Drain should be fully drained.**
If the drainage route is incomplete, water may drop from the unit. This may wet and damage furniture.



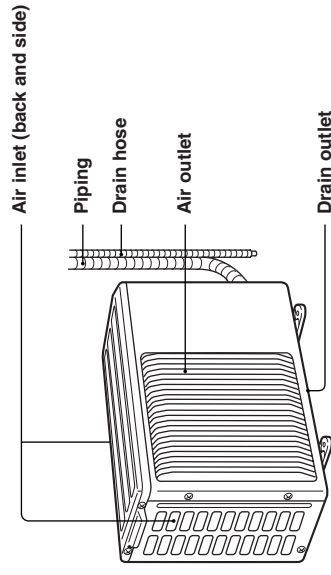
NAME OF EACH PART

Indoor unit (When installed on the floor)

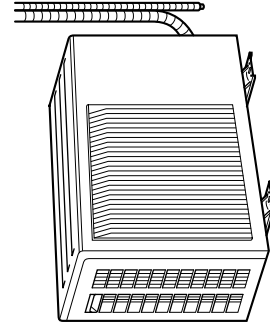


Outdoor unit

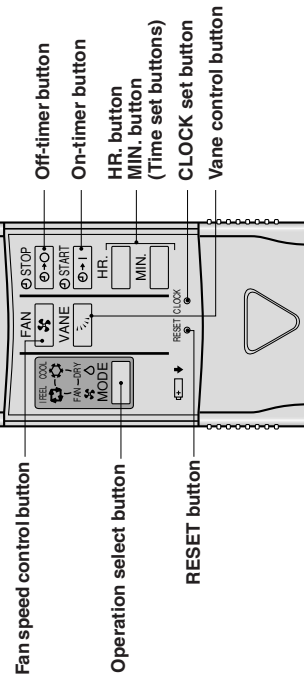
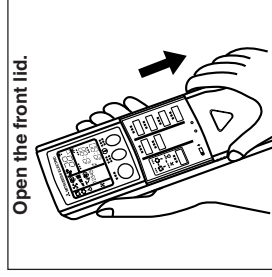
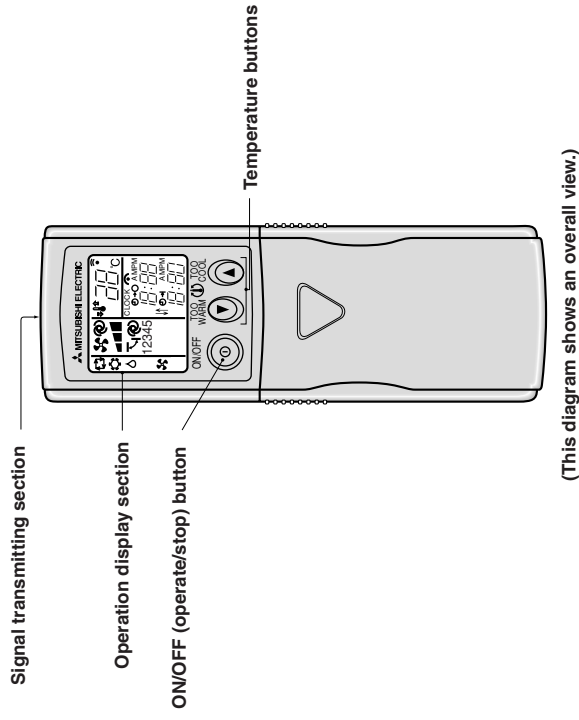
MUCF-C13UV



MUCF-C18UV
MUCF-C24UV



Remote controller



PREPARATION BEFORE OPERATION

Auto restart function

These models are equipped with an 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 indoor unit is controlled with the remote controller, the operation mode, the set temperature and the fan speed are stored in 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 the one set with the remote controller just before the shutdown of the main power. (Refer to page 6 for details.)

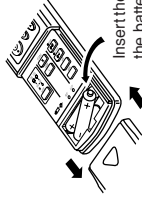
Breaker for the air conditioner

Turn the breaker ON.

Remote controller (How to set the batteries and the current time)

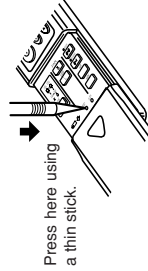
1 Remove the front lid and insert batteries. Then reattach the front lid.

Insert the minus pole of the batteries first. Check if the polarity of the batteries is correct.



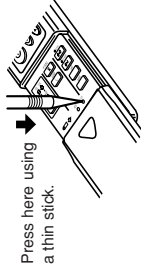
2 Press the RESET button.

Insert the minus pole of the batteries first.

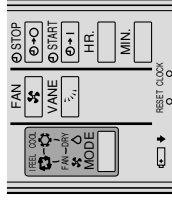


If the RESET button is not pressed, the remote controller may not operate correctly.

3 Press the CLOCK set button.



4 Press the HR and MIN buttons (TIME set buttons) to set the current time.



Each time the HR button is pressed, the set time is counted up by 1 hour, and each time the MIN button is pressed, the set time is counted up by 1 minute.

5 Press the CLOCK set button again and close the front lid.

Handling of the remote controller

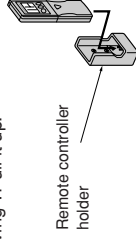
- The range that the signal can reach is about 6 m when the remote controller is pointed at the front of the indoor unit.
- When a button is pressed, one or two beeps will be heard from the indoor unit. If no sound is heard, operate again.
- Use the remote controller carefully.
- If it is dropped, thrown or it gets wet, the remote controller may not operate.

When installing on a wall, etc.

- Install the remote controller holder 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.



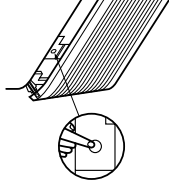
Dry-cell batteries

- Reference for replacing batteries
- When the indoor unit does not respond to the signal from the remote controller, or the display becomes dim, replace the batteries with new ones (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, a battery which the time limit is approaching may be exhausted soon. The recommended usable time limit is indicated (month/year) on the bottom of the battery.
- Replace the 2 batteries with new ones 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 the remote controller malfunctions, EMERGENCY OPERATION can be done using the EMERGENCY OPERATION switch.

1 Press the EMERGENCY OPERATION switch. When the EMERGENCY OPERATION switch is pressed, the unit will operate in test run for 30 minutes at first and then the operation mode shifts to EMERGENCY COOL MODE.

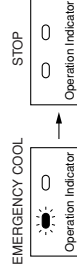


Details of EMERGENCY COOL MODE are as shown below. However, the temperature control does not work for 30 minutes in test run and the unit is set to continuous operation. The fan speed is set to High in test run and shifts to Medium after 30 minutes.

Operation mode	COOL
Set temperature	24°C
Fan speed	Medium
Horizontal vane	Auto

The operation mode is indicated by the Operation Indicator lamp on the indoor unit as following figures.

Operation indicator lamp

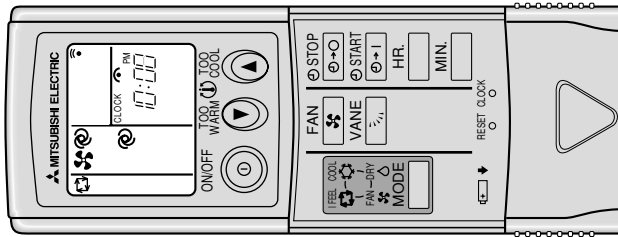


To stop the EMERGENCY COOL MODE, press the EMERGENCY OPERATION switch again.

Each time the switch is pressed, the operation mode alternates between the EMERGENCY COOL 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.



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 1°C.

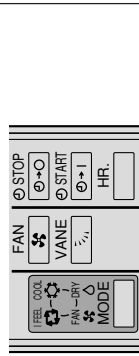
If you feel slightly cool,

Press the button to raise the temperature.

One press raises the temperature by about 1°C.

When "I FEEL..." is not selected, press the button until it is set.

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



Description of "I FEEL..." mode

Details of operation

According to the room temperature when the operation starts, the operation mode is automatically set to either COOL or DRY. However, when operation is started again within 2 hours after it is stopped, the same operation mode before the operation 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 appropriate operation mode by pressing the button.

Details of auto operation

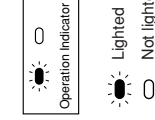
Room temperature when started	Operation mode	Target temperature (initial state)
About 25°C or higher	COOL	About 24°C
About 25°C or lower	DRY	—

Note:

When both Operation Indicator lamps are lighting, as the air conditioner is operating to reach the target temperature, the set temperature may not be changed. In this case, please wait until the lighting of Operation Indicator lamp changes from two to only one and then change the set temperature.

Details of display on the indoor unit

The Operation Indicator lamps at the right side of the indoor unit indicate the operation state.



Operation Indicator lamp

Indication	Operation state	Difference between target temperature and room temperature
	This shows that the air conditioner is operating to reach the target temperature. Wait until the target temperature is obtained.	About 2°C or more
	This shows that the room temperature is approaching the target temperature.	About 2°C or less

Description of "AUTO RESTART FUNCTION"




- These units are equipped with an auto restart function. When the main power is turned on, the air conditioner will start operation automatically in the same mode as the one set with the remote controller just before the shutoff of the main power.
- If the unit was set to off with the remote controller before the shutoff of the 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 the main power, it will start operation, when main power comes on, in the same mode as the one set with the remote controller before the emergency operation.
- If the unit is operated in "I FEEL..." mode before power failure, the operation is not stored in the memory. In "I FEEL..." mode, the operation is decided by the initial room temperature at (re)start.

MANUAL OPERATION (COOL, DRY, FAN)

To select the “COOL”, “DRY” or “FAN” 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) →  (FAN)

To stop operation:

 Press the  button.

After the operation mode is set once, the operation starts in the same mode as the one 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 1°C.
- Press the  button to raise the temperature. One press raises the temperature by about 1°C.

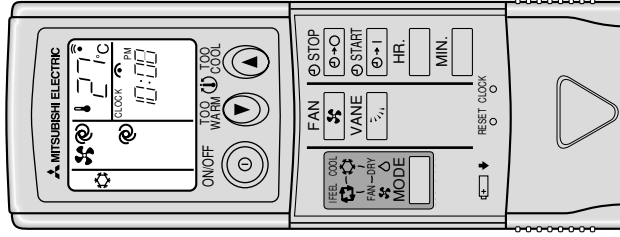
In “DRY” operation

- 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 the room under a high load.

The details of the display on the indoor unit are explained on page 6.



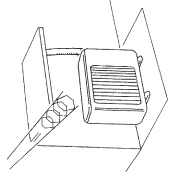
CONVENIENT INFORMATION

“COOL” For effective cooling

① Close the windows and pull down blinds. Sunlight is reduced and cooling efficiency increases.



③ Block the outdoor unit from direct sunlight. This saves energy.



“DRY” The humidity at which people feel comfortable

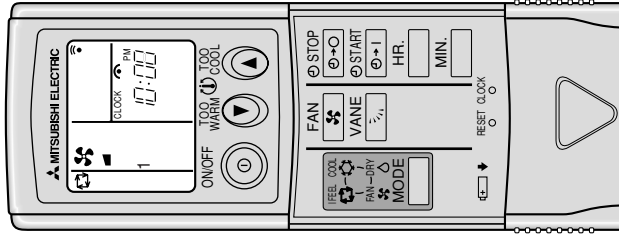
When air contains too much moisture, people feel uncomfortable. Humidity is related to temperature and wind. The humidity at which people feel comfortable is 60%-75% RH in summer, 55%-70% RH in winter.

Description of “AUTO RESTART FUNCTION”

Refer to page 6.

AIR FLOW VELOCITY AND DIRECTION ADJUSTMENT

AIR FLOW velocity and direction can be selected as required.



To change the AIR FLOW velocity, press the **FAN** button.

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

- Use the (High) notch to cool the room more.
- If the operating sound of the air conditioner disturbs your sleep, use the (Low) notch.

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

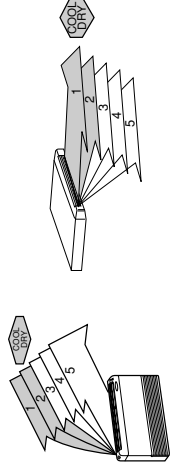
Each time the button is pressed, the angle of the horizontal vane is changed in sequence: 1 → 2 → 3 → 4 → 5 → (SWING) → (AUTO)

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 position 1 or 2 in the COOL or DRY mode when adjusting to your requirements.



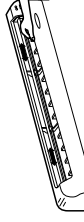
Notes:

- In the cooling operation, when the air conditioner is operated with setting the horizontal vane to 4 or 5 for 1 hour, the AIR FLOW direction is automatically set to position 1 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.

To change the horizontal direction of the AIR FLOW

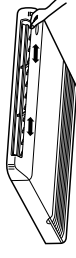
For the floor standing unit

- Change the direction of the vertical vane manually.



For the ceiling suspended unit

- Change the direction of the vertical vane manually.



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

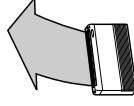
AUTO AIR FLOW DIRECTION CONTROL OPERATION

- When the AUTO mode is selected with the **VANE** button, the position of the horizontal vane is automatically set to correspond to the operation mode for effective operation.

For the floor standing unit

(1) COOL, DRY

- The air is blown out upwards.



For the ceiling suspended unit

(1) COOL, DRY

- The air is blown out horizontally.



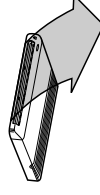
(2) FAN

- The air is blown out horizontally.



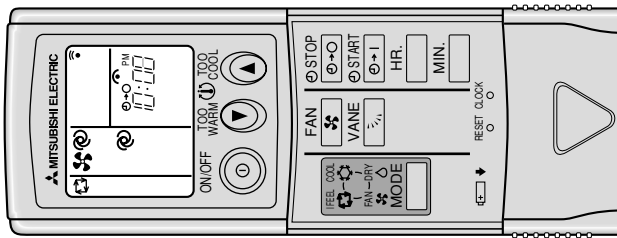
(2) FAN

- The air is blown out downwards.



TIMER OPERATION (ON/OFF TIMER)

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



TIMER

How to set the ON timer

- 1 Press the **START** button during operation. Each time the button is pressed, the ON timer mode alternates between ON and OFF.
- 2 Set the time of the timer using the **HR.** and **MIN.** buttons. Each time the **HR.** button is pressed, the set time is counted up by 1 hour; each time the **MIN.** button is pressed, the set time is counted up by 10 minutes.

To release the ON timer:

- Press the **START** button.



How to set the OFF timer

- 1 Press the **STOP** button during operation. Each time the button is pressed, the OFF timer mode alternates between ON and OFF.
- 2 Set the time of the timer using the **HR.** and **MIN.** buttons. Each time the **HR.** button is pressed, the set time is counted up by 1 hour; each time the **MIN.** button is pressed, the set time is counted up by 10 minutes.

To release the OFF timer:

- Press the **STOP** button.

Programming timer operation

The ON timer and the OFF timer can be used in combination. The timer of the set time that is reached first will operate first. ("*" mark indicates the order of timer operations.)

- If the current time has not been set, the timer operation cannot be used.

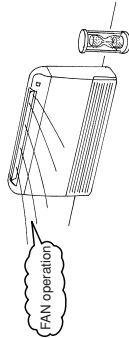
Note:

If the main power is turned off or a power failure occurs while AUTO START/STOP timer is active, the timer setting is cancelled. As these models are equipped with an auto restart function, the air conditioner should start operating at the same time that power is restored.

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.



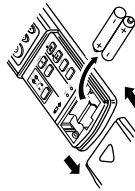
- 2 Turn off the breaker.



Caution:

Turn off the breaker when the air conditioner is not going to be used for a long time. Dirt may collect and this may cause a fire.

- 3 Remove the batteries from the remote controller.

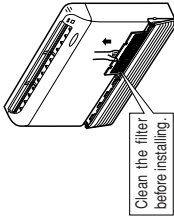


Caution:

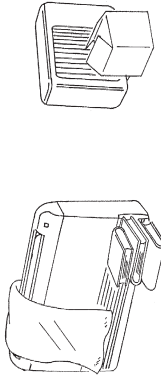
To prevent liquid leakage, take out all batteries when the remote controller is not going to be used for a long time.

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 instructions.)



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



- 3 Check that the earth is connected correctly.

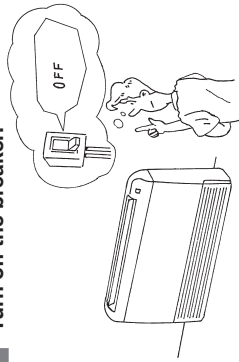
Caution:

Earth the unit. Do not connect the earth to a gas pipe, water pipe, lightning rod or the earth of a telephone. If the earthing is incorrect, it may cause an electric shock.

MAINTENANCE

Before starting maintenance

- Turn off the breaker.

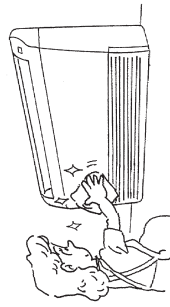


Caution:

When the unit is to be cleaned, switch it 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 the unit using a soft dry cloth.

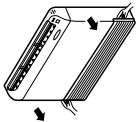


Do not use gasoline, benzene, polishing powder, detergent and insecticide. The unit may be damaged.

CLEANING THE AIR FILTER/DEODORIZING FILTER (OPTION)

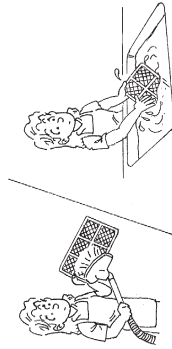
Cleaning the air filter (about once every 2 weeks)

- 1 **Remove the air filter.**
 - Pull the air inlet knob forward.

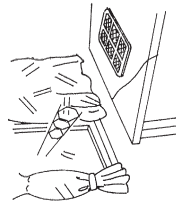


(If there is deodorizing or air cleaning filter (OPTION), please remove it before cleaning the air filter.)

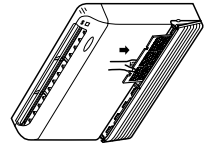
- 2 **Remove dirt from the air filter using a vacuum cleaner or by washing the filter with water.**
 - If dirt is conspicuous, wash the filter with a solution of detergent in lukewarm water.
 - If hot water (50°C or more) is used, the filter may be deformed.



- 3 **After washing with water/lukewarm water, dry the air filter well in the shade.**
 - Do not expose the air filter to direct sunlight or heat from a fire when drying it.

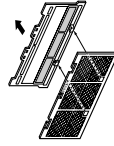
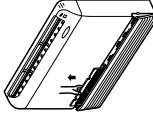


- 4 **Install the air filter.**
 - Set the air inlet knob.

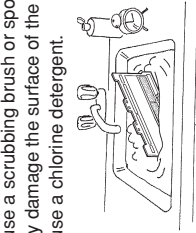


Cleaning the deodorizing filter (about once every 2 weeks)

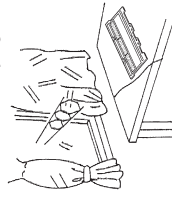
- 1 **Remove the air filter and the deodorizing filter together. Then separate the deodorizing filter (Gray sponge type) from the air filter.**
 - The deodorizing filter is harmless to people. However, to keep its effectiveness, be sure to hold the frame and not to touch the surface of the filter with your hand.



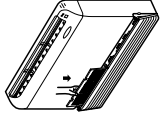
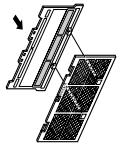
- 2 **Soak the filter together with its frame in lukewarm water for about 15 minutes.**
 - If dirt is conspicuous, use a solution of detergent in lukewarm water.
 - If hot water (50°C or more) is used, the filter may be deformed.
 - Do not use a scrubbing brush or sponge.
 - This may damage the surface of the filter.
 - Do not use a chlorine detergent.



- 3 **After washing with water/lukewarm water, dry the deodorizing filter well in the shade.**
 - Do not expose the deodorizing filter to direct sunlight or heat from a fire when drying it.



- 4 **Attach the deodorizing filter to the air filter. (Place the catch into the hole of the air filter for the security.) Then install both of them to the body.**

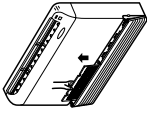


REPLACEMENT OF THE DEODORIZING FILTER (OPTION)/ AIR CLEANING FILTER (OPTION)

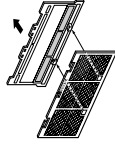
When the capacity is lowered because of dirt, etc., it is necessary to replace the deodorizing filter/air cleaning filter.

Deodorizing filter replacement (about once a year)

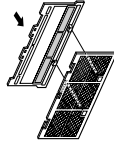
- 1 **Remove the air filter and the deodorizing filter together.**



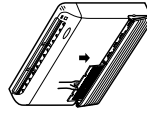
- 2 **Separate the deodorizing filter (Gray sponge type) from the air filter.**



- 3 **Replace a new deodorizing filter and attach it to the air filter. (Place the catch into the hole of the air filter for the security.)**



- 4 **Install the air filter and the deodorizing filter together.**

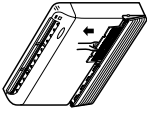


Deodorizing filter

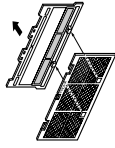
- Cleaning is necessary about once every 2 weeks. However, if dirt is conspicuous, clean more often.
- When the colour of the filter is not restored even if the filter is washed as the procedure shown in the left (Cleaning the deodorizing filter) or when the filter becomes black, replace the filter with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

Air cleaning filter replacement (about once every 4 months)

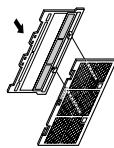
- 1 **Remove the air filter and the air cleaning filter together.**



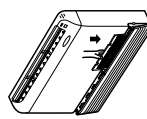
- 2 **Separate the air cleaning filter (White bellows type) from the air filter.**



- 3 **Replace a new air cleaning filter and attach it to the air filter. (Place the catch into the hole of the air filter for the security.)**



- 4 **Install the air filter and the air cleaning filter together.**



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 colour of the filter turns to dark brown, replace the filter at once.

Optional parts are available from your local dealer.

Parts name	Model
Deodorizing filter	MAC-1700DF
Air cleaning filter	MAC-1200FT

BEFORE CONTACTING THE SERVICE REPRESENTATIVE, CHECK THE FOLLOWING AGAIN

The air conditioner cannot be operated.



Check the following.

- 1 Is the breaker turned on?
- 2 Isn't the fuse blown?
- 3 Isn't the ON-timer set?

The room cannot be cooled sufficiently.



Check the following.

- 1 Is the temperature setting correct?
- 2 Isn't the filter dirty?
- 3 Isn't the outlet of the outdoor unit blocked?

Display of the remote controller does not appear (1, 2).
The remote control signal cannot be received if the remote controller is not operated near the air conditioner (1).



Check the following.

- 1 Aren't the batteries exhausted?
- 2 Is the polarity (+, -) of the batteries correct?

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 an auto restart function, the air conditioner should start operating again. (Refer to Description of "AUTO RESTART FUNCTION" on page 6.)

- 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 where an electronic ON/OFF type fluorescent lamp (inverter type fluorescent lamp, etc.) is used.
- In the region where the electric wave is weak, 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	Answer (not a malfunction)
The air conditioner cannot be operated for about 3 minutes when restarted.	<ul style="list-style-type: none"> • This protects the air conditioner according to the instructions from the microprocessor. Please wait. • This sound is generated by the expansion/contraction of the front panel, etc. due to change in temperature.
Cracking sound is heard.	<ul style="list-style-type: none"> • The air conditioner sucks in an odor adhering to the wall, carpet, furniture, cloth, etc. and blows it out with air.
The room smells strange.	<ul style="list-style-type: none"> • In COOL operation, the unit operates using the same refrigerant circuit as in DRY 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.
The fan stops during the DRY operation.	<ul style="list-style-type: none"> • This is the sound of refrigerant flowing inside the air conditioner. • This is the sound of condensed water flowing in the heat exchanger. • This is the sound of the heat exchanger defrosting.
The sound of water flowing is heard.	<ul style="list-style-type: none"> • This sound is heard when the outside air is absorbed from the drain hose in turning on the range hood or the ventilation fan and that makes water flowing in the drain hose spout out. This sound is also heard when the outside air blows into the drain hose in case the outside wind is strong.
The sound as burbling is heard.	<ul style="list-style-type: none"> • 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 air temperature is high, the cooling effect may not be sufficient.
The room cannot be cooled sufficiently.	<ul style="list-style-type: none"> • This is the switching sound in turning on/off the fan or the compressor.
Mechanical sound is heard from the indoor unit.	<ul style="list-style-type: none"> • 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 of the air flow is automatically set to position 1 to prevent condensed water from dripping.
The air flow direction is changed during operation.	<ul style="list-style-type: none"> • During COOL and DRY operations, pipe or pipe connecting sections are cooled and this causes water to condense.
Water leaks from the outdoor unit.	<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 air conditioner with the remote controller and is turned on again, the air conditioner will start operation automatically in the same mode as the one set with the remote controller just before the shutoff of the main power.

INSTALLATION, RELOCATION AND INSPECTION

Installation place

Avoid installing the air conditioner in the following places.

- Where flammable gas could leak.

⚠ Caution:

If gas leaks and collects 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 where the area is filled with oily smoke.

⚠ Warning:

If the air conditioner operates but does not cool or heat (depending on model) the room, consult your dealer since there may be a refrigerant leak. Be sure to ask the service representative whether there is refrigerant leakage or not when repairs are carried out.

The refrigerant charged in the air conditioner is safe. Refrigerant normally does not leak, however, if refrigerant gas leaks indoors, and comes into contact with the fire of a fan heater, space heater, stove, etc., harmful substances will be generated.

Electrical work

- Provide an exclusive circuit for the power supply of the air conditioner.
- Be sure to observe the breaker capacity.

⚠ Warning:

The customer should not install this unit. If the unit is installed incorrectly, fire, electric shock, injury due to the unit falling, water leakage, etc. may result.

⚠ Caution:

- Earth the unit.
Do not connect the earth to a gas pipe, water pipe, lightning rod or the earth of a telephone. If the earthing is incorrect, it may cause an electric shock.
- Install an earth leakage breaker depending on the place where the air conditioner is to be installed (humid place, etc.).

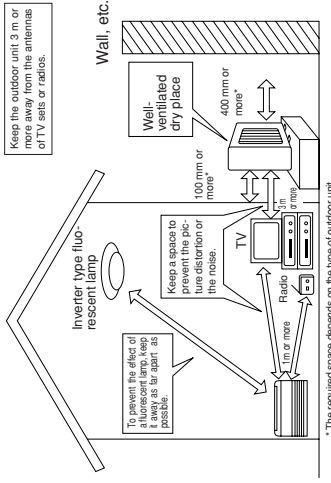
If the earth leakage breaker is not installed, it may cause an electric shock.

Inspection and maintenance

- When the air conditioner is used for several seasons, the capacity may be lowered due to dirt inside the unit.
- Depending upon the conditions of use, an odor may be generated or dirt, dust, etc. may prevent proper drainage.
- It is recommended that the unit be inspected and maintained (charged) by specialist in addition to normal maintenance. Consult your dealer.

Operating sound considerations

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



Relocation

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

⚠ Warning:

Repairs or relocation should not be done by the customer.

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

Disposal

- To dispose of this product, consult your dealer.

If you have any questions, consult your dealer.

SPECIFICATIONS

Function	Model	MCF-C13UV	MCF-C18UV	MCF-C24UV
Power supply		Cooling	Cooling	Cooling
Capacity		3.7	5.0	6.4
Input		1.31-1.38	1.92-2.01	2.87-2.97
	Indoor	26	26	26
Weight		34	55	61
	Indoor	0.85	1.50	2.15
Refrigerant filling capacity (R-407C)		IP20	IP20	IP20
IP code		IP24	IP24	IP24
	Indoor	1.3	1.3	1.3
Permissible excessive operating pressure	LP ps	3.9	4.3	4.2
	HP ps	43-44	46-47	48
Noise level (High)	Indoor	49	52	53
	Outdoor	—	—	—

Notes:

1. Rating condition
Cooling — Indoor: 27°C DB, 19°C WB
Outdoor: 35°C DB

2. Guaranteed operating range

Cooling	Upper limit		Lower limit	
	Indoor	Outdoor	Indoor	Outdoor
	32°C DB	43°C DB	23°C WB	—
	21°C DB	21°C DB	15°C WB	—

This product is designed and intended for use in the residential,
commercial and light-industrial environment.

The product at hand is based on the following EU regulations:

- Low Voltage Directive 73/23/EEC
- Electromagnetic Compatibility Directive 89/336/EEC

 **mitsubishi electric corporation**
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