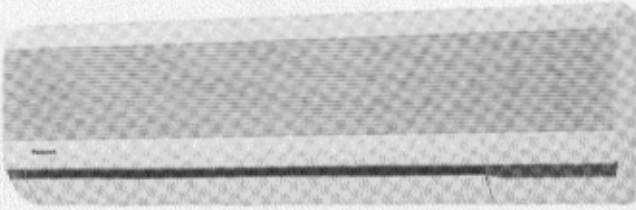


Panasonic

Room Air Conditioner



Operating Instructions

	Indoor		Outdoor
Model	CS-XC181KP	Model	CU-XC181KP
	CS-XC241KP		CU-XC241KP



Before using your air-conditioner, please read this operating instructions carefully and keep it for future reference.

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ESPAÑOL P. 23 – P. 44

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Safety Precautions

Before operating, please read the following "Safety Precautions" carefully.

To prevent personal injury, injury to others and property damage, the following instructions must be followed.

- Incorrect operation due to ignoring of instructions will cause harm or damage, the seriousness of which is classified as follows :



Warning : This sign warns of death or serious injury.



Caution : This sign warns of injury or damage to property only.

- The instructions to be followed are classified by the following symbols :



This symbol (with a white background) denotes an action that is PROHIBITED.



These symbols (with a black background) denote an action that is COMPULSORY.

Installation precautions






Warning

- **Do not install, remove and reinstall the unit yourself.**
Improper installation will cause leakage, electric shock or fire. Please consult an authorized dealer or specialist for the installation work.



Caution

- **This room air conditioner must be earthed.**
 Improper grounding could cause electric shock.
- **Ensure that drainage piping is connected properly.**
 Otherwise, water will leak out.
- **Do not install the unit in a place where there may be explosive gas leaks.**
 Gas leaks near the unit could cause fires.

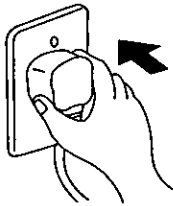
Operation precautions



Warning

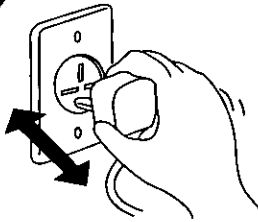
■ **Insert the power plug properly.**

Heat generated by a loose power plug could cause electric shock or fire.



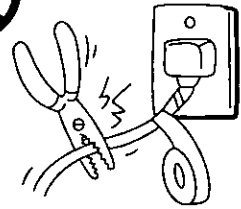
■ **Do not operate or stop the unit by inserting or pulling out the power plug.**

It could cause electric shock or fire.



■ **Do not damage or use an unspecified power cord.**

It will cause electrical shock or fire.



■ **Do not modify the length of the power cord or use an extension cord.**

It could cause electric shock or fire.



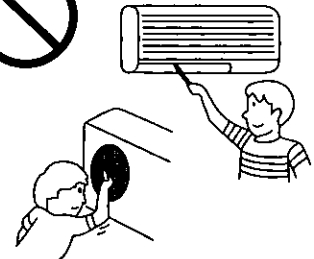
■ **Do not operate the unit with wet hands.**

It could cause an electric shock.



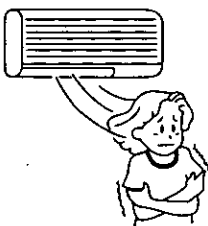
■ **Do not insert finger, sticks or other objects into the units.**

It could lead to physical injury and cause damage to the units.



■ **Do not be directly exposed to the cold airstream for too long.**

It could lead to health problems.



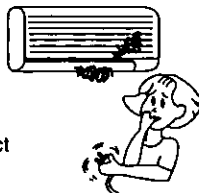
■ **If there is a smell of burning, stop the air conditioner and disconnect the power supply.**

The heat generated could cause electric shock or fire. Please consult an authorized dealer or service center.



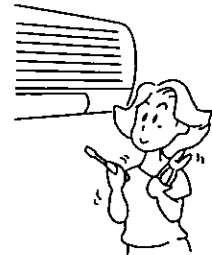
Switch off the breaker.

Disconnect the power plug.



■ **Do not try to repair the unit yourself.**

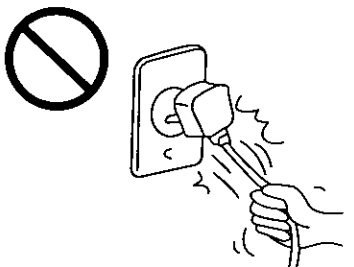
It could lead to fire or cause an electric shock. Please call an authorized dealer or service center.



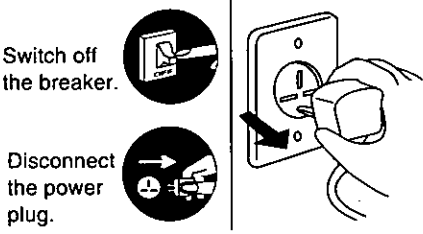


Caution

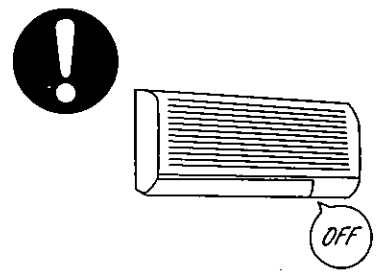
■ **Do not remove the power plug by pulling the cord.**
 Hold the plug when disconnecting the plug from the wall outlet.



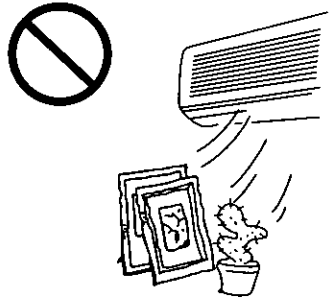
■ **Switch off the power supply if the unit is not going to be used for a long period of time.**
 If dust accumulates on the plug, it will generate heat and this could cause a fire.



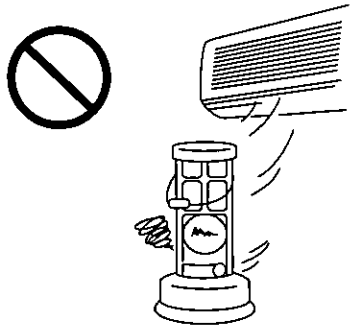
■ **When cleaning the unit, remove the plug.**
 This is to prevent injury due to the rotating fan in the unit.



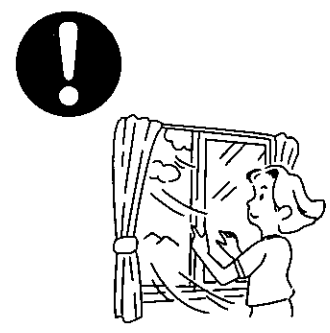
■ **Do not use for other purposes.**
 Do not use for preservation purposes. It will affect food quality, animals or plants.



■ **Do not place combustor in the path of the airflow from the unit.**
 Incomplete combustion could cause toxic gas (CO) poisoning.



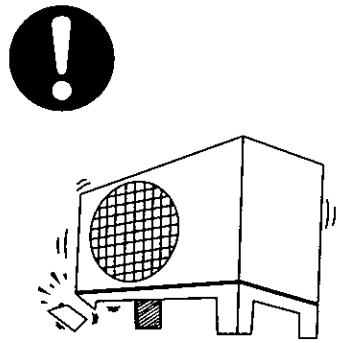
■ **Ventilate the room regularly.**
 If not ventilated regularly, the lack of oxygen could cause headaches.



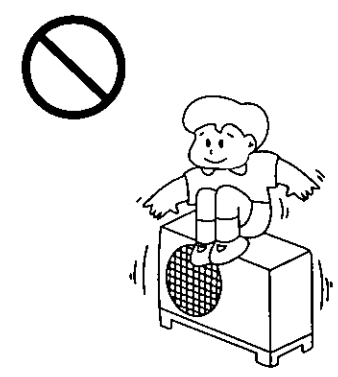
■ **Do not wash the unit with water.**
 It could cause an electric shock.



■ **Inspect the unit for any damage.**
 Ensure that the necessary repairs are carried out.

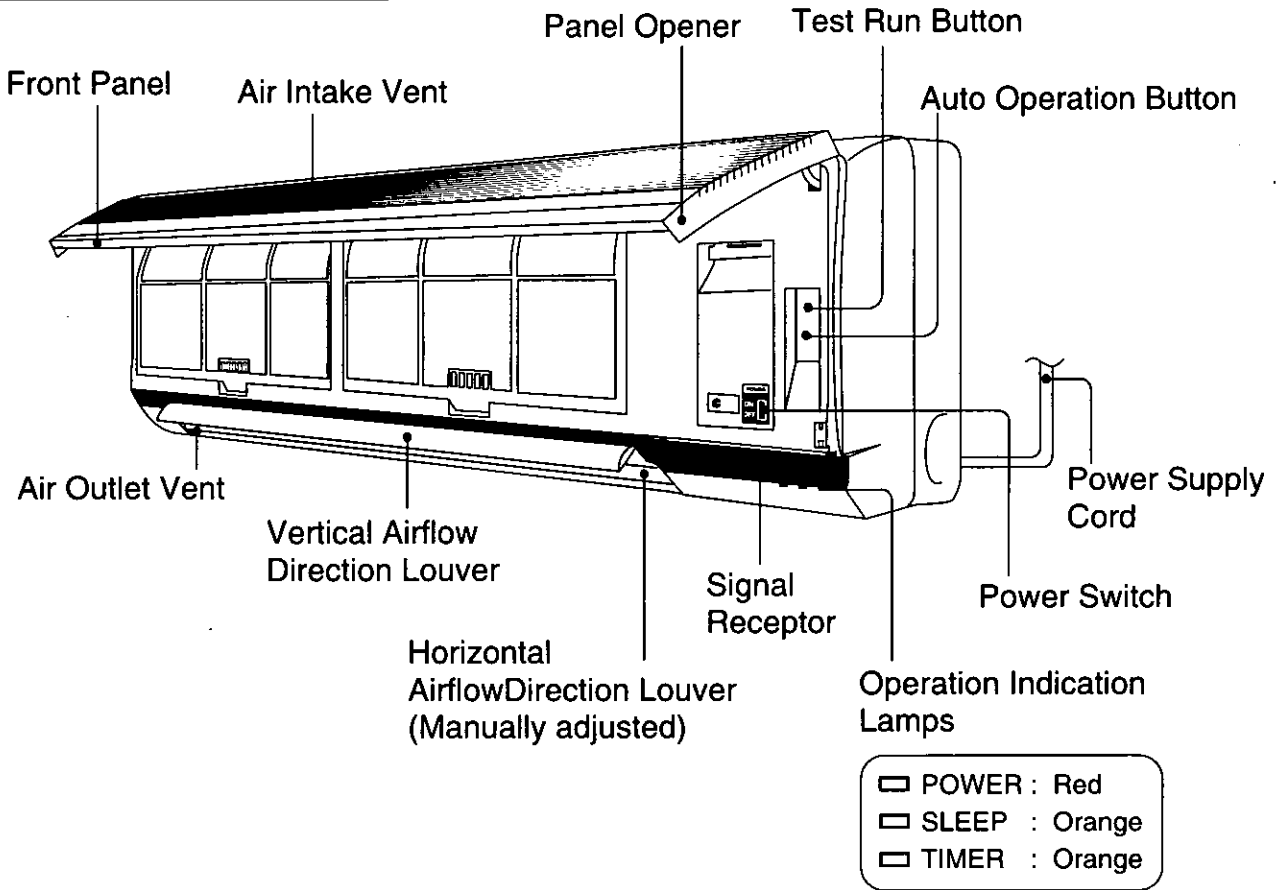


■ **Do not sit or place anything on the outdoor unit.**
 You might fall off or the unit might collapse.

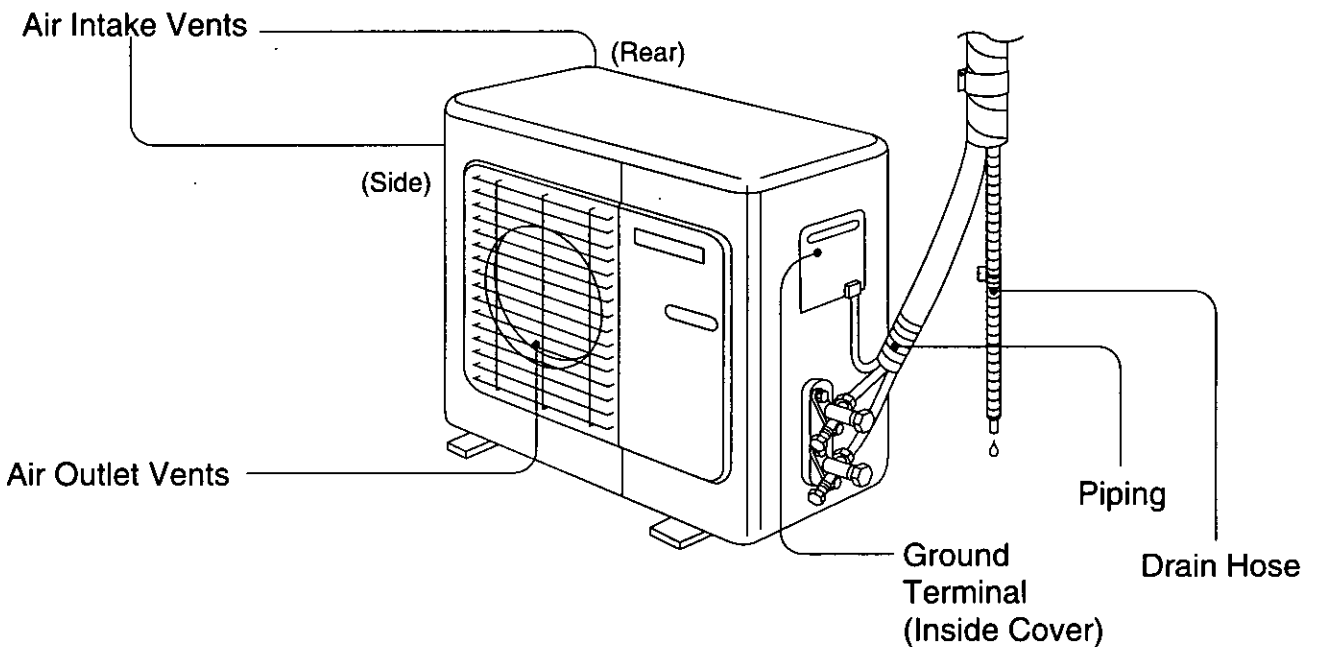


Name of Each Part

Indoor unit



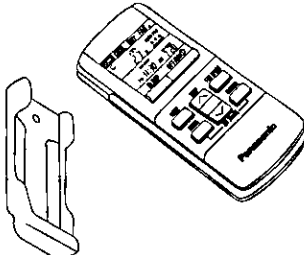
Outdoor unit



Remote control


Accessories

Remote Control




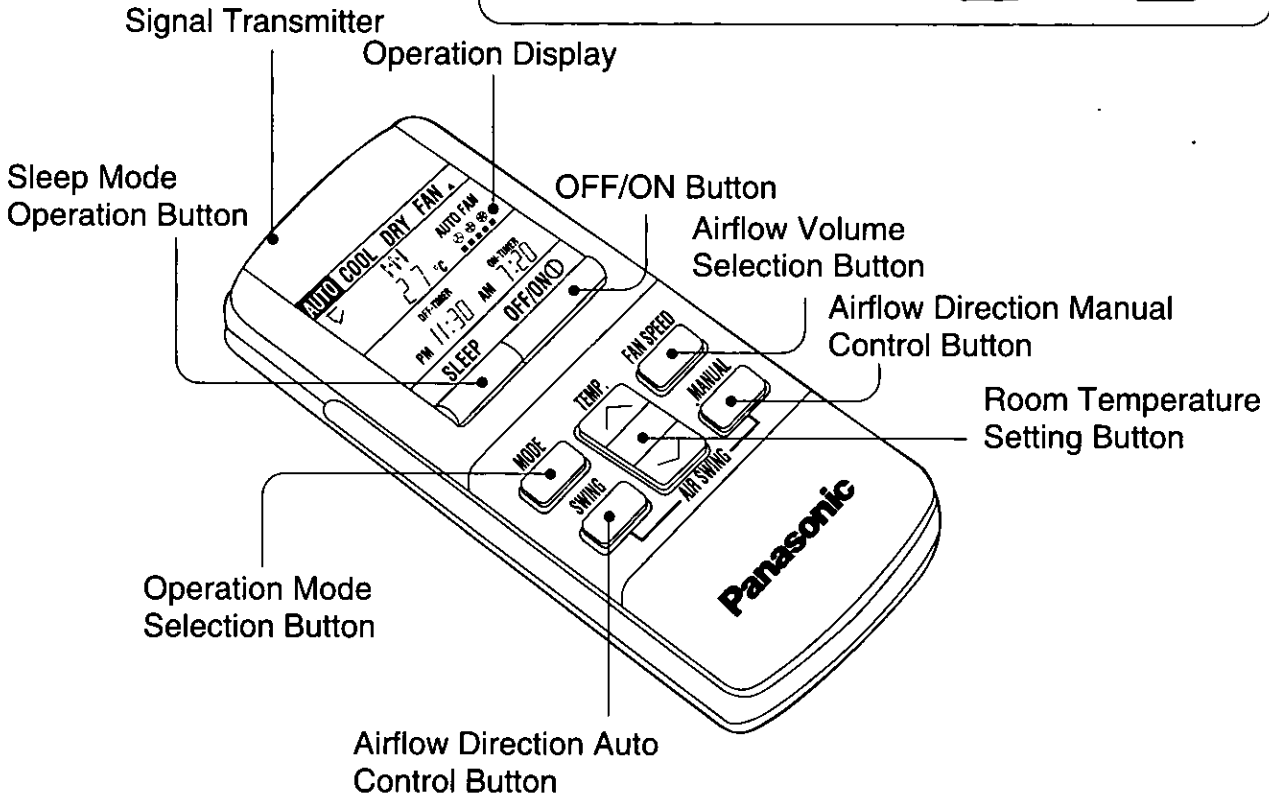
Remote Control Holder

Two R03 dry-cell batteries or equivalent

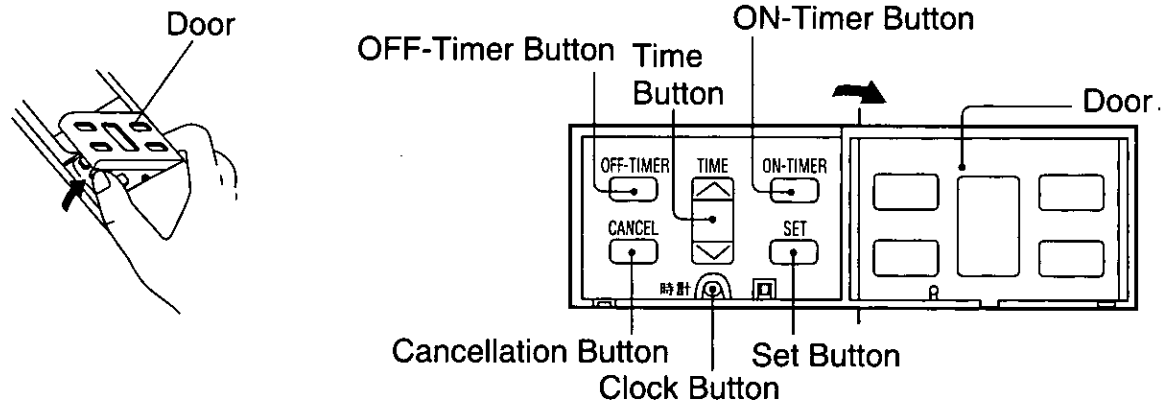


Air Purifying Filters (with deodorizing function)



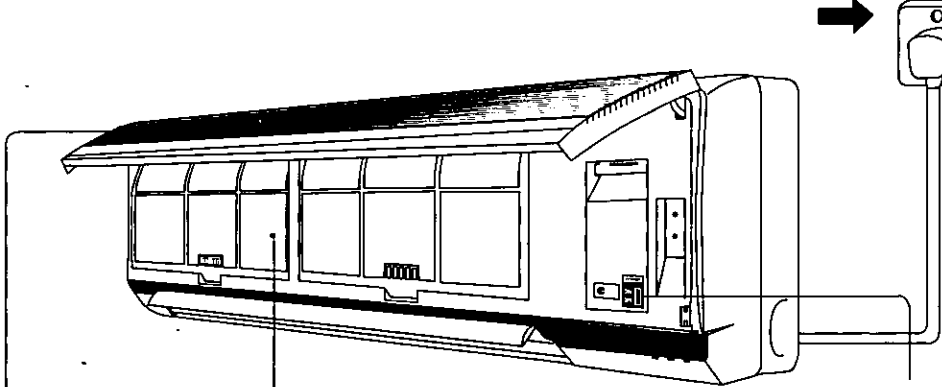


Separate displays and functions are available when the door is opened.



Preparation Before Operation

Before operating the unit

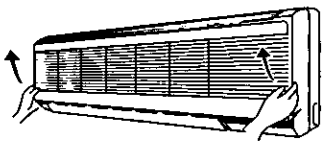


1

■ Insert power plug into an electrical outlet.

2

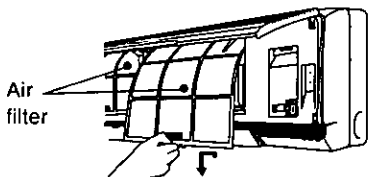
■ Open the front panel.



Hold the panel openers at both sides and pull up the front panel.

3

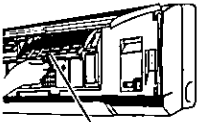
■ Remove air filter.



Air filter

Hold the tab to raise up slightly and then pull down.

■ Insert air purifying filter.

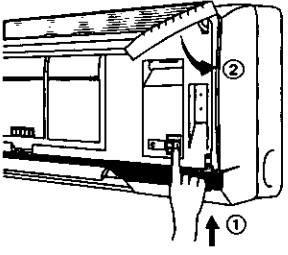


Be careful not to hurt your hands by metal parts.

Air purifying filter

4

■ Switch on the power switch and close the front panel.




<Note>

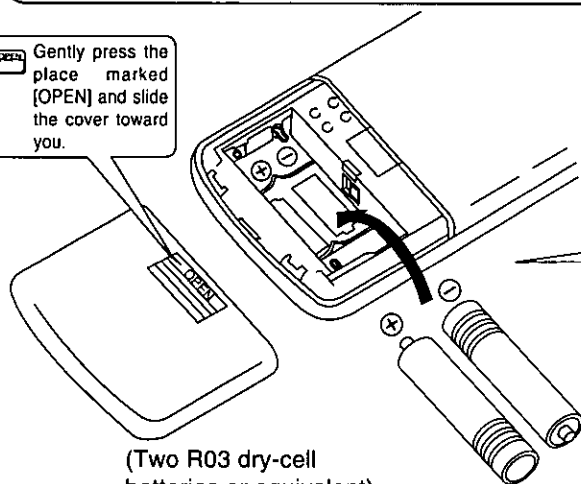
Use under the following conditions:

(Unit in °C)

DBT: Dry Bulb Temperature WBT: Wet Bulb Temperature	Cooling			
	Indoor		Outdoor	
	DBT	WBT	DBT	WBT
Maximum Temperature	32	23	43	26
Minimum Temperature	16	11	16	11

How to insert batteries

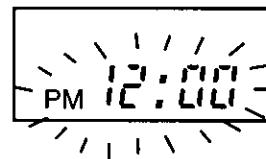
 Gently press the place marked [OPEN] and slide the cover toward you.



(Two R03 dry-cell batteries or equivalent)

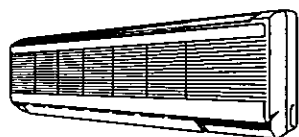
- Fix the cover to the back of the remote control ("PM 12:00" will flash in the operation display.)

⊕⊖ Be sure that the (+) and (-) directions are correct.



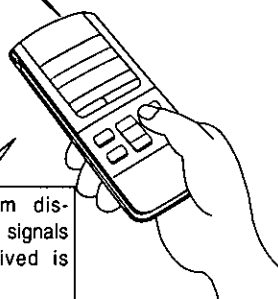
If the display does not appear when the batteries are inserted, remove the batteries and insert them once more.

Operating the remote control



Make sure that the signal path is not obstructed.

The maximum distance at which signals can be received is about 10 m.



- Aim at the signal receptor on the room air conditioner when operating.
- Do not drop or throw the remote control.
- Do not place the remote control in a location that is exposed to direct sunlight or next to a heating unit or other heat source.
- Signal received sound.
One short beep or one long beep.

Set the power switch to "O" (OFF) when:

- **The air conditioner is not going to be used for an extended period of time.**

If the power switch is left at "I" (ON), approximately 3.25 watts of electric power are used even if the main unit is turned off by remote control.

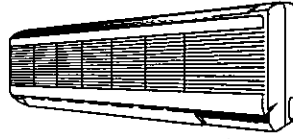
- **There is a danger of lightning.**

The air conditioner is provided with a built-in protective device, but the control equipment may be adversely affected depending on the extent of lightning activity.

Regarding the batteries.

- The batteries can be used for approximately one year.
- Do not use rechargeable (Ni-Cd) batteries, because such batteries differ from standard dry-cell batteries in shape, dimensions and performance.
- Be sure to replace the batteries with two new batteries of the same type.
- Remove the batteries if the air conditioner is not going to be used for an extended period of time.

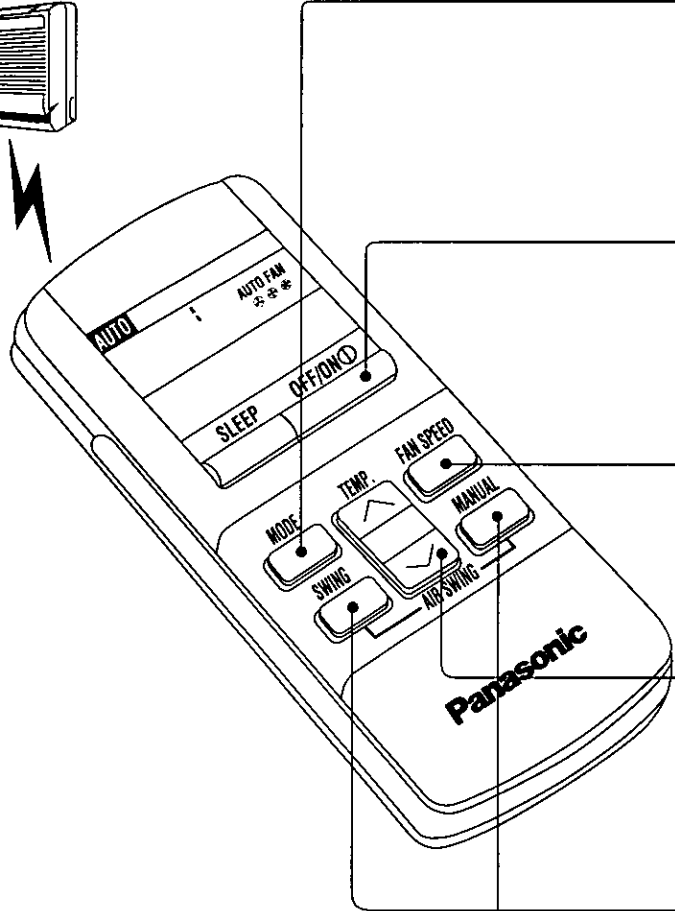
How to Operate



Auto Restart Control.

- If there is a power failure, operation will be automatically restarted after 3 minutes when the power is resumed with previous operation mode and airflow direction. (When the operation is not stopped by remote control.)
 - If you intend not to continue the operation when the power is resumed, switch off the power switch at main unit or power supply.
- When you switch on the power switch, the operation will be automatically restarted with previous operation mode and airflow direction.

Note: 1. If you do not require Auto Restart Control, please consult your dealer.
2. Auto Restart Control is not available when Timer or Sleep Mode is set.



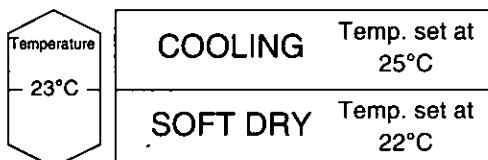
Recommended temperature for health and comfort.

For Cooling : 26°C - 28°C
For Soft Dry : 1°C - 2°C lower than room temperature.

<Operation Details>

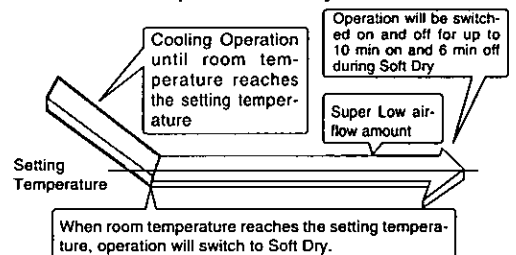
AUTO – Automatic Operation.







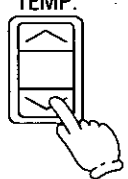



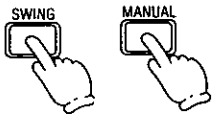



- Once the Automatic Operation is selected, the indoor temperature sensor operates automatically to select the desired operation mode with Cooling or Soft Dry.



DRY – Soft Dry Operation.

- Soft Dry is a very gentle Cooling Operation consisting primarily of dehumidifying. It does not lower the room temperature very much.



<p>1</p>		<p>Press to select operation mode.</p> <ul style="list-style-type: none"> The display changes in the order AUTO → COOL → DRY → FAN each time the button is pressed.
<p>2</p>		<p>Press to start the operation.</p> <ul style="list-style-type: none"> Operation indication lamp (RED) will light up. Press once more, to stop the operation.
<p>3</p>		<p>Press to select airflow volume.</p> <ul style="list-style-type: none"> The display changes in the order. <p>AUTO FAN →  →  → </p> <p>Automatic Low Medium High</p>
<p>4</p>		<p>Press to select room temperature.</p> <ul style="list-style-type: none"> Cooling, Soft Dry, Air Circulation – Select temperature as desired. (16°C ~ 30°C) Automatic. <p>  2°C lower than standard  standard  2°C higher than standard </p>
<p>5</p>		<p>Press  continuously.</p> <ul style="list-style-type: none"> The vertical airflow direction louver will move up and down. Release the button when the louver is at the desired position. <p>Press .</p> <ul style="list-style-type: none"> The vertical airflow direction louver will swing up and down automatically. To stop the automatic airflow direction operation, press  button.

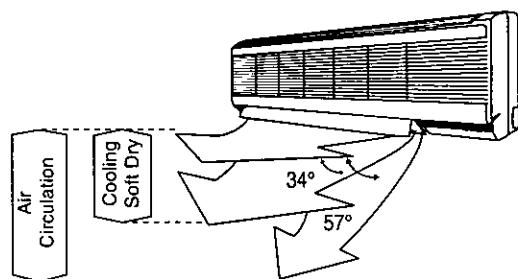
FAN – Air Circulation Operation.

- When the room temperature reaches the setting temperature, operation commences at Low air-flow volume. It stops when the room temperature drops to 2°C below the setting temperature (It is useful when using a heater).

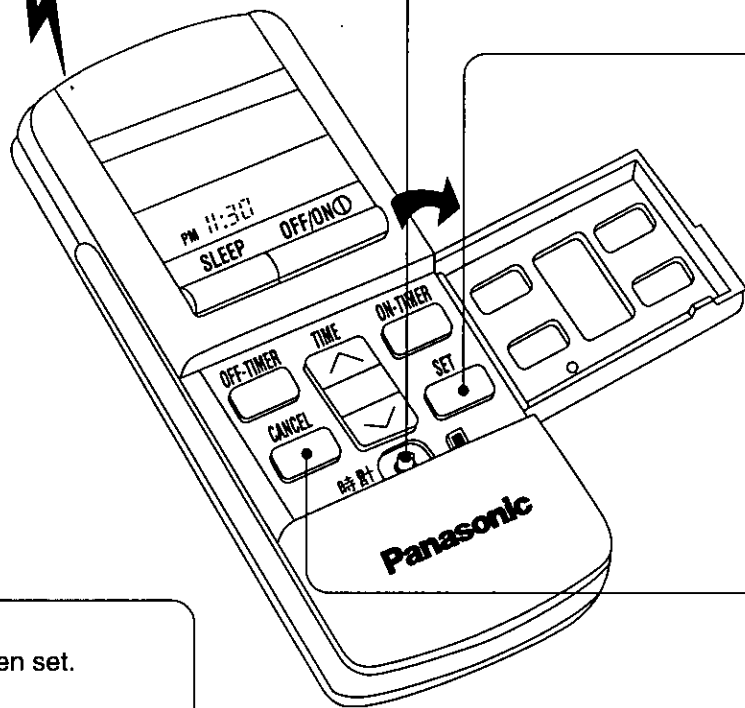
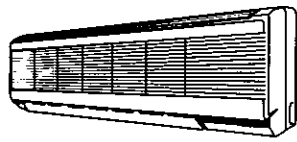
Automatic Airflow Volume.

- The speed of the indoor fan is adjusted automatically according to the operation. The indoor fan stops occasionally during cooling operation.

Range of louver adjustment.

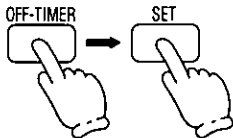


Setting the Timer



If there is a power failure.

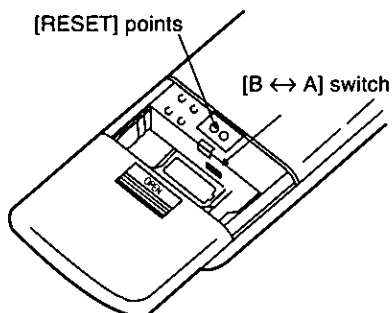
To reset the Timer.
(Example) If the OFF Timer has been set.



- Even if there is a power failure, the setting time is still stored in the memory because the remote control is a battery operated type.

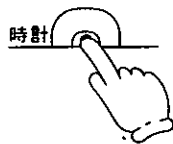
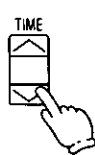
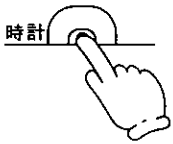
<Note>

Regarding remote control.




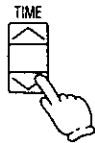
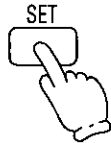
- If the current time is not set correctly, correct Timer setting will not be possible.
- When the Timer is set, the current time display will vanish.
- [RESET] points will clear the memory once they are shorted.
- [B ↔ A] switch is used when two air conditioners units have been installed in one room. Please consult your dealer.

To set the current time.

■  → **Set hours and minutes**  ... to advance the time
 ... to reverse the time → 




To set the Timer.

■ **OFF Timer**

 → **Set hours and minutes**  ... to increase 10 minutes each step.
 ... to decrease 10 minutes each step. → 

The "OFF-TIMER" will blink. The Timer indication lamp at main unit will light up. LED colour: Orange.



■ **ON Timer**

 → **Set hours and minutes**  ... to increase 10 minutes each step.
 ... to decrease 10 minutes each step. → 

The "ON-TIMER" will blink. The Timer indication lamp at main unit will light up. LED colour: Orange.

To cancel the Timer.


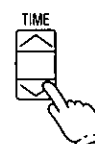

■ **OFF Timer**

 → 

- The Timer indication lamp at main unit will go off.
- To cancel the ON Timer, follow the same procedure.

To change the Timer setting time.

■ (Example) To change the ON Timer setting time.

 → **Change hours and minutes setting**  ... to increase 10 minutes each step.
 ... to decrease 10 minutes each step. → 

Timer

- The ON Timer and OFF Timer can only be set once during a day.
- The operation will start before the actual setting time with ON Timer setting.

Automatic, Cooling and Soft Dry :
15 minutes before

This is to allow time to attain your desired set temperature.

■ **Setting the OFF Timer.**

This is useful for saving electricity costs incurred by forgetting to turn off the air conditioner.

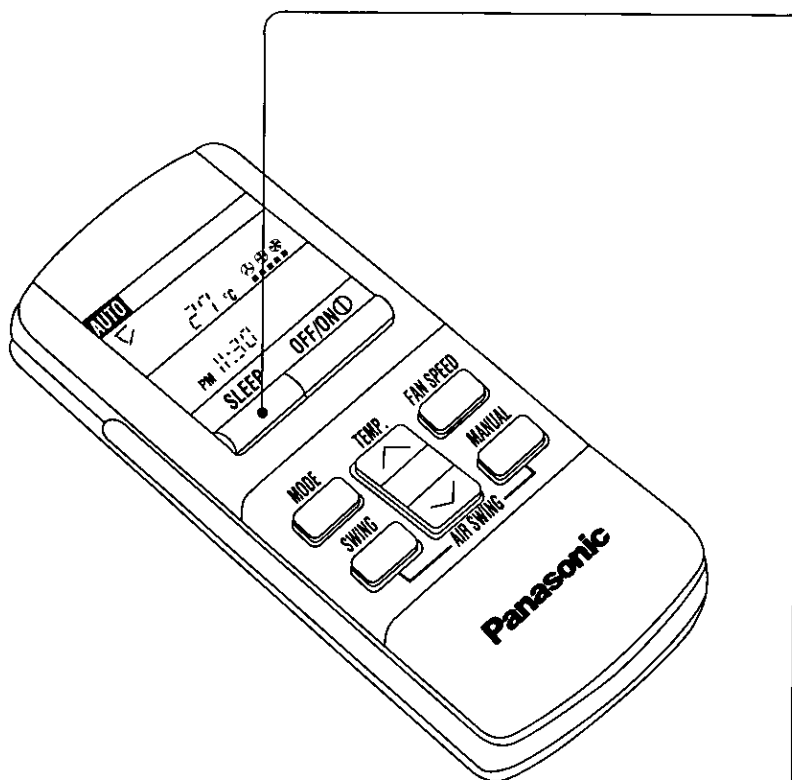
■ **Setting the ON Timer.**

If the air conditioner is set before you go out, the room temperature will be close to your desired temperature when you return.

Convenient Operation

Sleep Mode

This is to gain a comfortable room temperature while sleeping.



To set Sleep Mode.

- Press



(The sleep indication lamp on the main unit will light up.)

To cancel Sleep Mode.

- Press once more



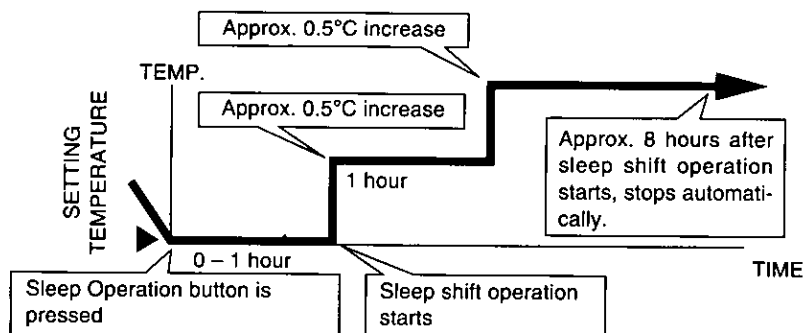
(The sleep indication lamp on the main unit will switch off.)

Sleep Mode Operation.

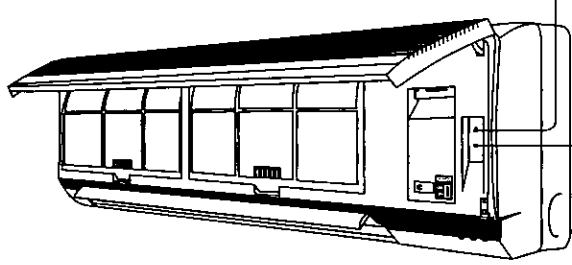
- When the room temperature reaches the setting temperature or after 1 hour of operation, sleep shift operation starts and the airflow volume will automatically change to low.
- Sleep Mode Operation time is 8 hours.
- When using together with the Timer, the Timer has priority.

<Information>

- Cooling or Soft Dry Operation for Sleep Mode movement will start to avoid overcooling.



When the remote control cannot be used



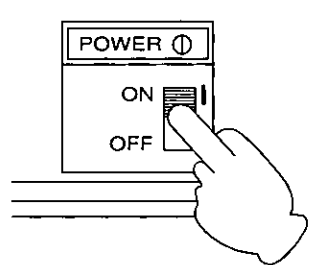

Test Run Button.
(Use when installing and moving)

Auto Operation Button.

- When the remote control cannot be used, press Auto Operation Button to run Automatic Operation.
(Airflow direction setting will be automatic.)

To set Auto Operation.

- Confirm the power switch is at "I" (ON).
- Press Auto Operation Button.
(The operation indication lamp will blink for 20 seconds, and then light up)
- If the button is pressed once more, the air conditioner will stop.
(The operation indication lamp will switch off.)

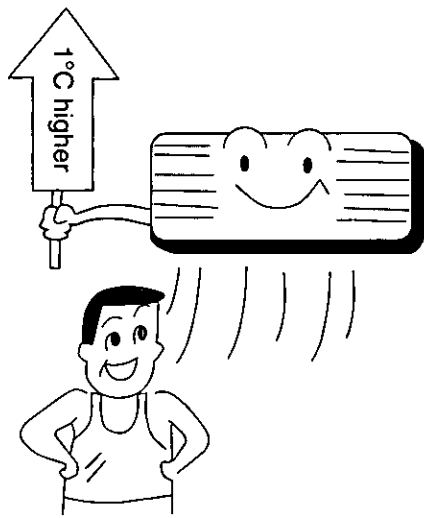



OFF/ON remote control signal receiving sound

- The Remote Control Signal receiving sound can be omitted as desired.
- To switch OFF the signal receiving sound, press Auto Operation Button for 10 seconds or more. At the same time, Automatic Operation starts.
(To switch ON, press Auto Operation Button once more for 10 seconds or more.)

Operation Hints

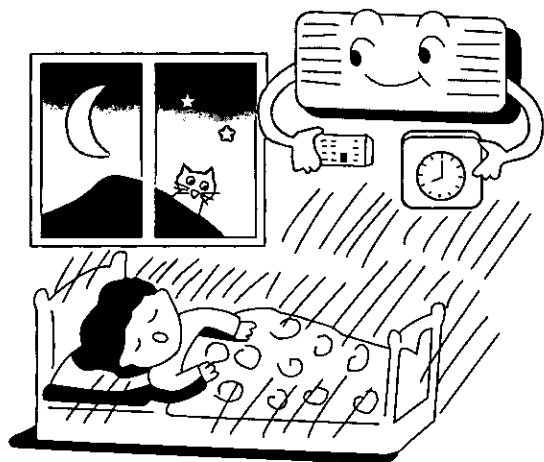
Adjust room temperature properly. Set the temperature 1°C higher than actually desired. Approximately 10% of electricity costs can be saved.



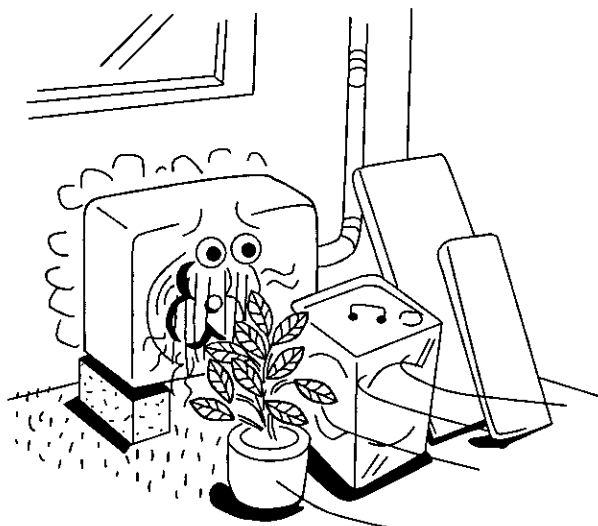
Clean the air filter regularly. Blockage in the air filter reduces the airflow and lowers the cooling. Clean at least once every 2 weeks. Otherwise, 6% of electricity cost will be wasted.



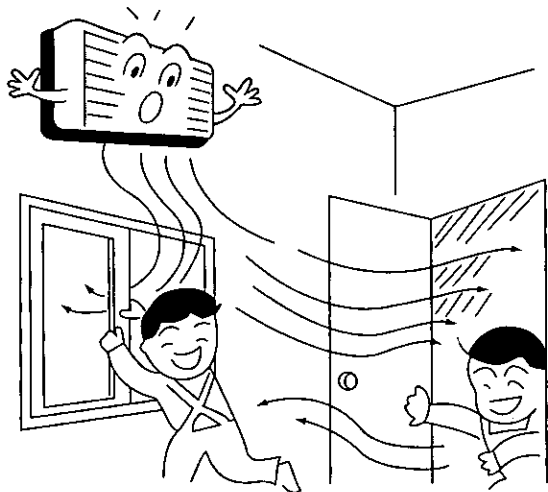
Prevent waste with the Timer. Use Timer when sleeping or going out to save electricity cost.



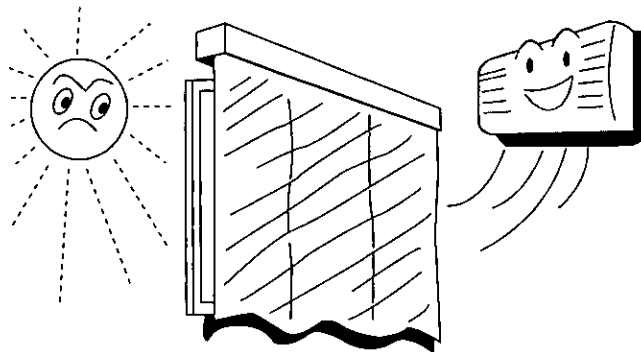
Do not block the air outlet vents at outdoor unit. Otherwise, it will lower the cooling performance.



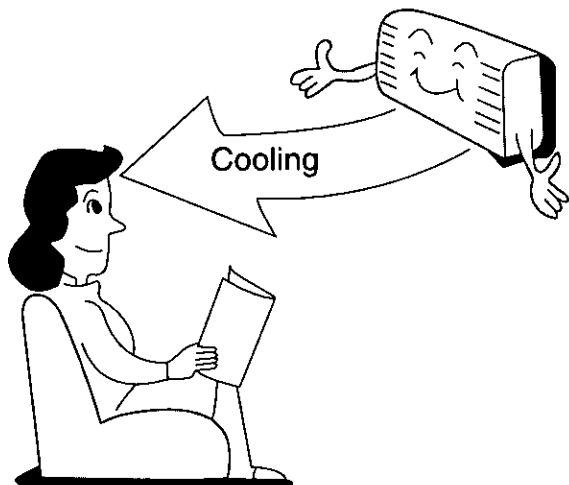
■ Make sure that the doors and windows are shut. Otherwise, cooling performance will be reduced and electricity cost is wasted.



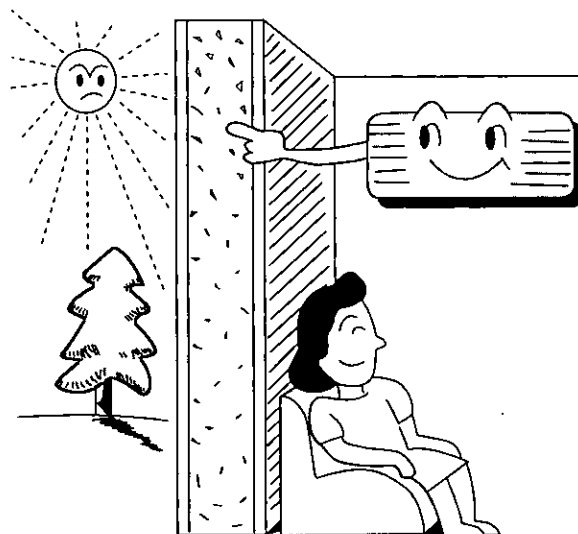
■ Keep blinds or curtains closed. Do not let sunshine enter the room directly. 5% of electricity cost can be saved.



■ Proper airflow direction adjustment. Set the air-flow direction louvers horizontal for Cooling Operation. Operation result will be better.



■ Use insulating material for better performance. Use insulating material during construction or renovations. It will save electricity cost.



Better Care and Maintenance

Regular care and maintenance will extend the life of the air conditioner and prevent wastage of electricity. Before performing any maintenance procedure, be sure to switch off the main power supply.

Caution



Do not use water or volatile liquids.

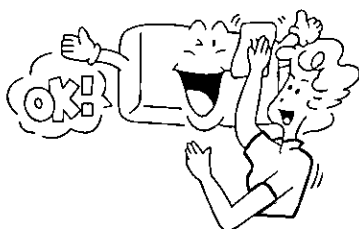
- Do not make air conditioner wet, as there is the danger that it could cause electric shocks.
Be sure not to apply water when cleaning or at any other time.
- Using water above 40°C could cause deformation and/or discolouration.
- Volatile liquids such as thinner or benzene may damage the air conditioner.

Cleaning the air conditioner and air filters

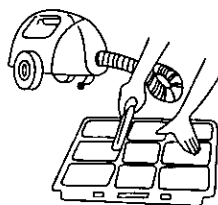
Once every 2 weeks is recommended.

■ Clean the air conditioner.

Wipe gently with a soft, dry cloth.



■ Clean the air filters.



- To remove the dust adhering to the filters, either use a vacuum cleaner, or wash them in water and dry in the shade.
- Re-insert the filters correctly at the left and right, with the side marked [FRONT] facing forward.
- Purchase replacement filters from your air conditioner dealer if the air filters become damage.

Air Filter No. CWD00231 (right)
CWD00232 (left)

Cleaning of front panel (Must be removed before washing)

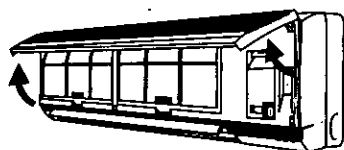
To clean the front panel, gently wash with sponge. Wipe dry or dry in shade.

IMPORTANT:

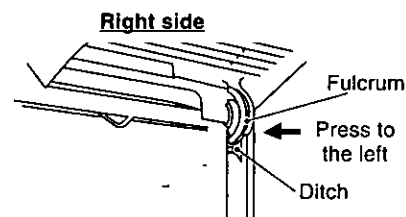
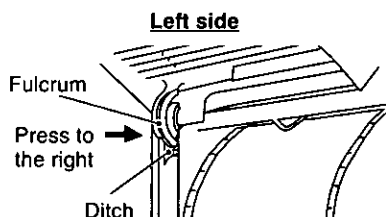
- It may lead to shaft damage if the front panel is removed or fixed without releasing the shaft.
- Be careful not to drop the front panel.

■ To remove front panel.

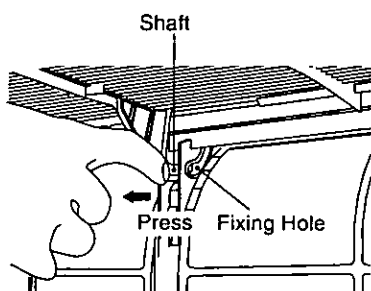
1. Raise the front panel.



2. Release either one of the fulcrum from the ditch.



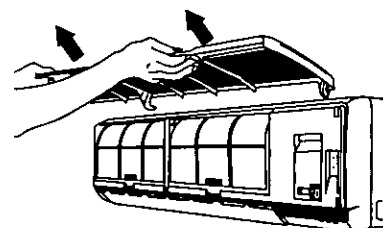
3. Release the shaft from the fixing hole.



4. Repeat step 2 to release the other fulcrum.

(Illustration is shown as above)

5. Remove the front panel.

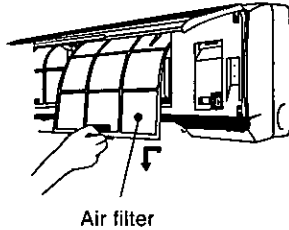


■ To fix the front panel, reverse the above procedure accordingly.

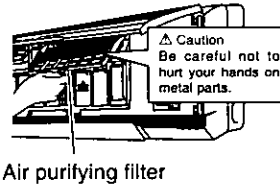
Replacement of air purifying filters

Recommended about once every 3 months.

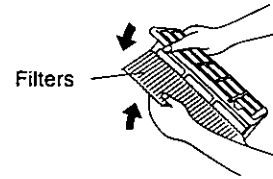
1 Remove the air filters.



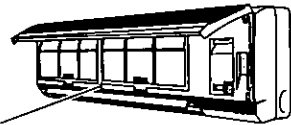
2 Remove the air purifying filters.



3 Remove the filters from the filter frame.



<Note>



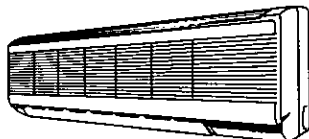
Sample colour

- If air purifying filters turn the same colour as the sample colour attached to the indoor unit within a three month period, replace the filters.
- Re-insert the filters correctly at the left and right with the side marked [FRONT] facing forward.
- Dusty filters cannot be re-used, even if they are cleaned and washed.
- Purchase replacement filters from your air conditioner dealer.
- Part number for air purifying filters: **CZ-SF5N**

When not using the air conditioner for a long period

1 Operate the air conditioner for 2 to 3 hours.

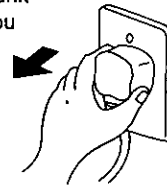
- Type of operation: Fan.



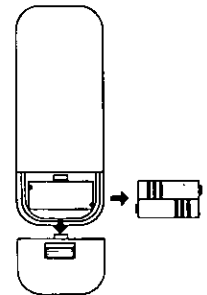
In order to dry out the internal mechanisms

2 For air conditioners with a power plug, stop operation by remote control and pull out the power plug.

Note: If the unit is not off by remote control, the unit will operate when you plug in (because of Auto-restart Control is provided).



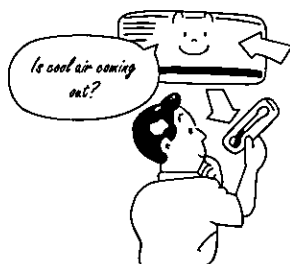
3 Remove the batteries from the remote control.



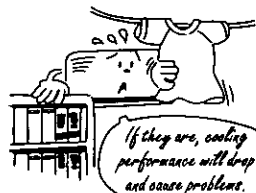
Pre-season inspection (The earlier the better)

■ Operate for 15 minutes.

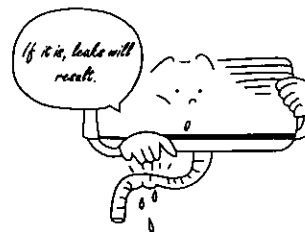
If the difference in temperature between the air outlet vent and air intake vent is 8°C or more when cooling, the unit is normal.



■ Are the air outlet vents and air intake vents obstructed?



■ Is the drain hose cracked or crushed?



■ Are the remote control batteries in good condition?

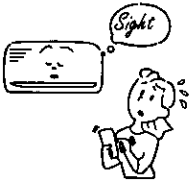


Troubleshooting

Normal operation

Q Is it okay?

A This is the answer.



Air conditioner has been restarted, but does not operate for 3 minutes.

This is to protect the air conditioner. Wait until the air conditioner begins operating.



During Soft Dry Mode Operation, the air conditioner stops.

Soft Dry Mode Operation is a very gentle Cooling Operation consisting primarily of dehumidifying. The air conditioner may stop for approximately 6 minutes in order to prevent overcooling. If the room temperature rises again, the operation will recommence.



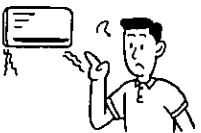
The room has a peculiar odour.

This may be a damp smell exuded by the walls, carpet, furniture or clothing in the room.



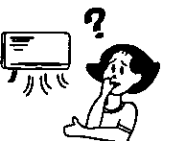
A sound like water flowing can be heard.

This is the sound of refrigerant flowing inside the air conditioner unit.



It seems that fog is coming out from the air conditioner.

Condensation occurs when the airflow from the air conditioner cools the room air.



During Automatic Airflow Volume setting, indoor fan stops occasionally.

This is to remove the smell exuded by the surroundings.

Abnormal operation

The air conditioner does not operate.

- Has a circuit breaker been tripped?
- Has the power plug been removed from the wall outlet?
- Is the power switch at "O" (OFF)?
- Is the Timer being used correctly?
- Has the **REMOTE CONTROLLER B ↔ A** switch been set to "B"?

The air conditioner does not cool effectively.

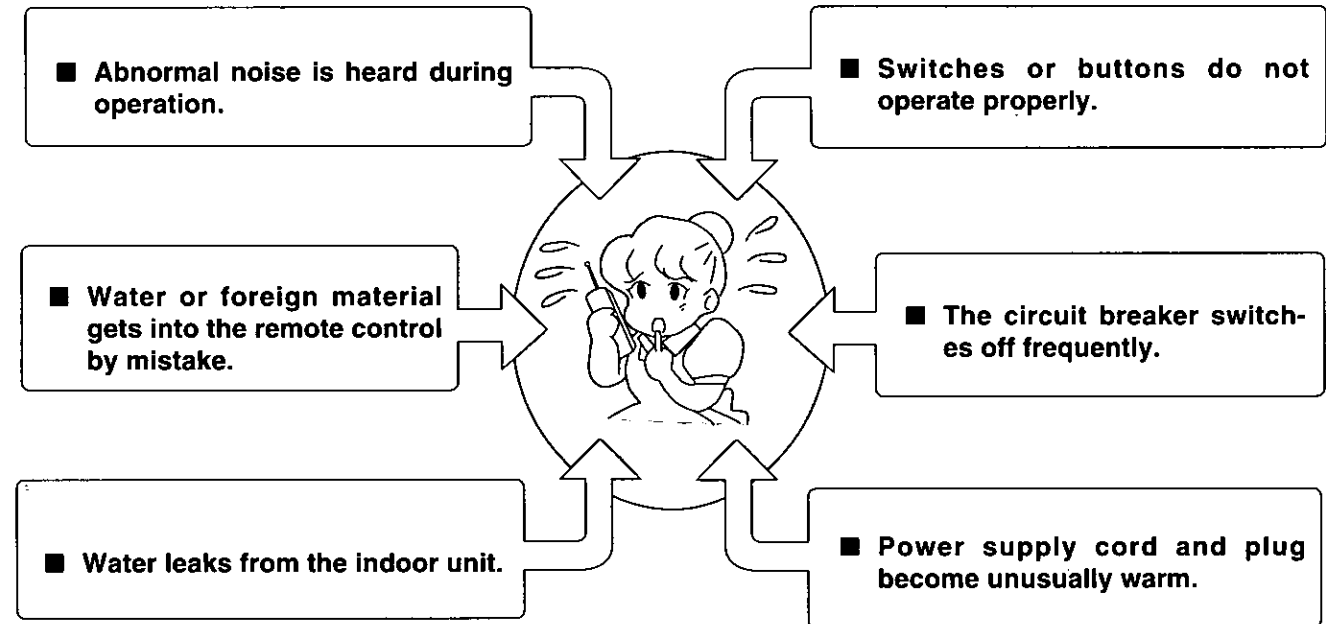
- Has the temperature been set incorrectly?
- Are the filters dirty?
- Are the intake or outlet vents of the outdoor unit obstructed?
- Are all windows and doors closed?

Air conditioner operation noise too loud.

- Is the installation work slanted?
- Is the front grille closed properly?

Call the dealer immediately

If the following conditions occur, immediately turn the power switch to "O" (OFF) and unplug.





WARNING

- 1) This appliance must be earthed.
- 2) If the supply cord is damaged, it must be replaced with a special cord obtainable at authorised service/parts centers.
- 3) Remove power plug or disconnect from the mains before servicing this appliance.
- 4) Do not repair by yourself.
In case of malfunction of this appliance, do not repair by yourself.
Contact to the sales dealer or service dealer for a repair.
- 5) Airborne noise.
A-weighted sound pressure level of this appliance is less than 70dB (A) under the JIS C 9612 test conditions.
Maximum cooling operation
1 m from the unit
- 6) Do not use in an explosive atmosphere.
Do not use this appliance in a potentially explosive atmosphere.
- 7) Turn off the power (Isolation from main power supply).
Pull off the power plug from the receptacle, or switch off the breaker, or switch off the power disconnecting mean to isolate the equipment from the main power supply in case of an emergency.



CAUTION

Disconnect the mains plug from the supply socket when not in use, where supply connection is via mains plug.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Green and Yellow	:	Earth
Blue	:	Neutral
Brown	:	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured green and yellow must be connected to the terminal in the plug which is marked by the letter E or by safety earth symbol \oplus or coloured green or green and yellow.

The wire which is coloured blue must be connected to the terminal which is marked with letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with letter L or coloured red.

Note

Please remember to record the following:

- Model Number _____
- Serial Number _____
- Dealer's Name _____
- Date Purchased _____