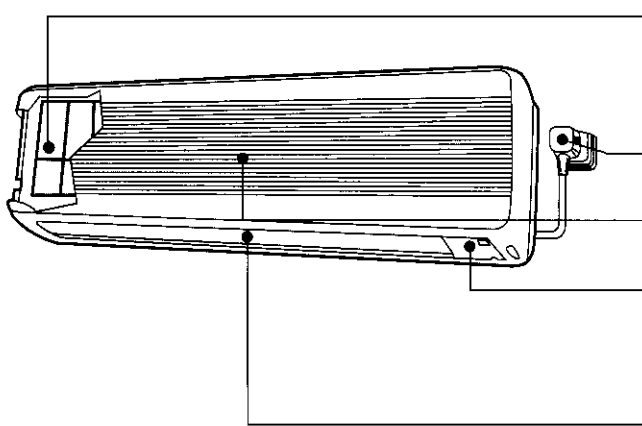




NAMES AND FUNCTIONS OF EACH PART

INDOOR UNIT

RAS-07CH2, RAS-09CH2
RAS-08CH1, RAS-10CH1



AIR FILTER

To prevent dust from coming into the indoor unit.
(Refer page 18)

POWER PLUG (NOT PROVIDED)

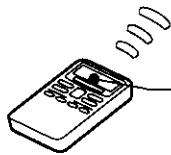
SUCTION GRILL (AIR INLET).

INDOOR UNIT INDICATORS

Light indicator showing the operating condition.
(Refer page 8)

HORIZONTAL DEFLECTOR • VERTICAL DEFLECTOR (AIR OUTLET)

(Refer page 15)

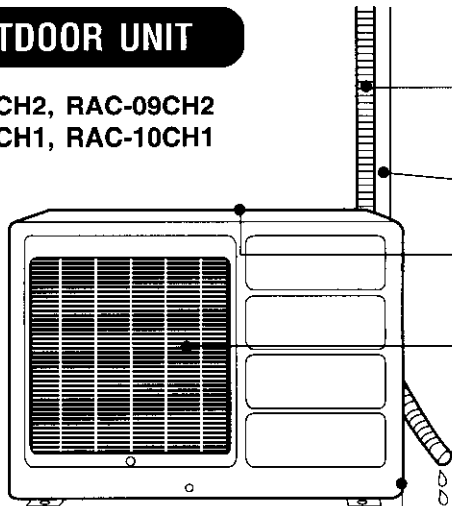


REMOTE CONTROL

Send out operation signal to the indoor unit. So as to operate the whole unit.
(Refer page 9)

OUTDOOR UNIT

RAC-07CH2, RAC-09CH2
RAC-08CH1, RAC-10CH1



DRAIN PIPE

Condensed water drain to outside.

CONNECTING CORD

AIR INLET (BACK, LEFT SIDE)

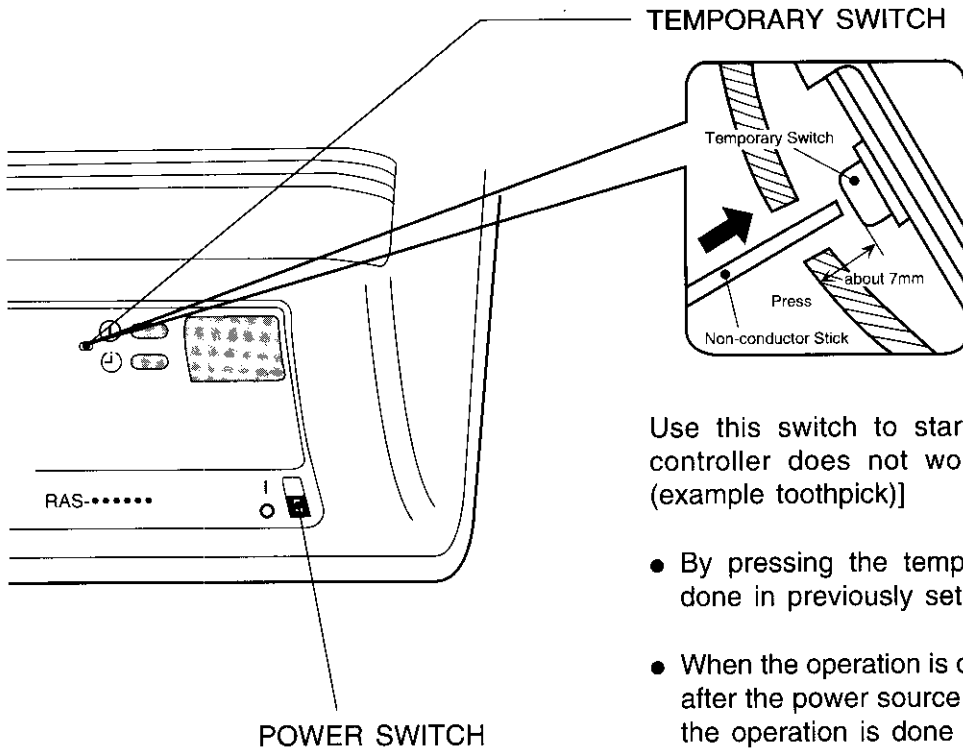
AIR OUTLET

EARTH WIRE SCREW

MODEL NAME AND DIMENSIONS

MODEL	WIDTH (mm)	HEIGHT (mm)	DEPTH (mm)
RAS-07CH2, RAS-09CH2 RAS-08CH1, RAS-10CH1	785	265	168
RAC-07CH2, RAC-09CH2 RAC-08CH1, RAC-10CH1	700	570	210

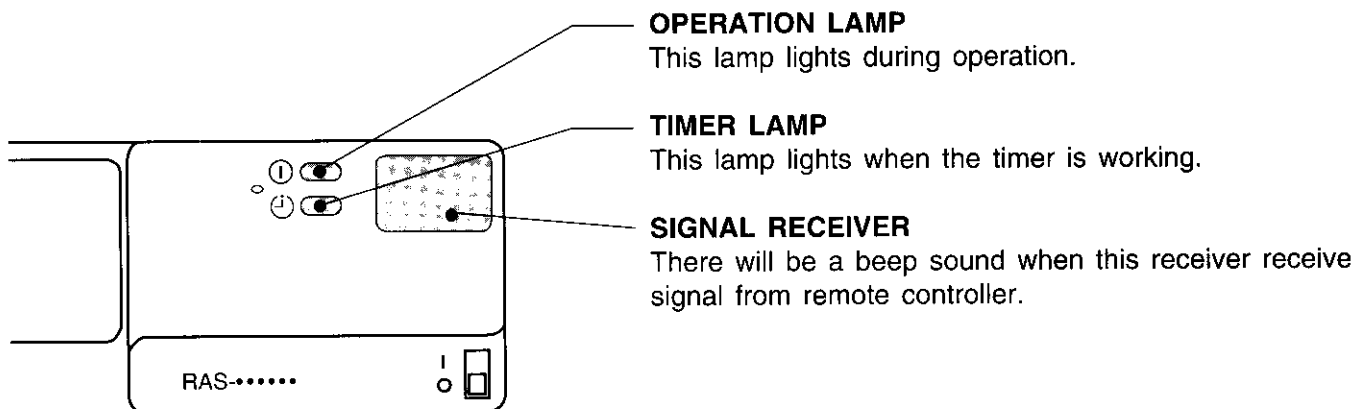
OPERATION INDICATOR



Use this switch to start and stop when the remote controller does not work. [Use non-conductor stick (example toothpick)]

- By pressing the temporary switch, the operation is done in previously set operation mode.
- When the operation is done using the temporary switch after the power source is turned off and turn on again, the operation is done in automatic mode.

INDOOR UNIT INDICATORS



OPERATION LAMP

This lamp lights during operation.

TIMER LAMP

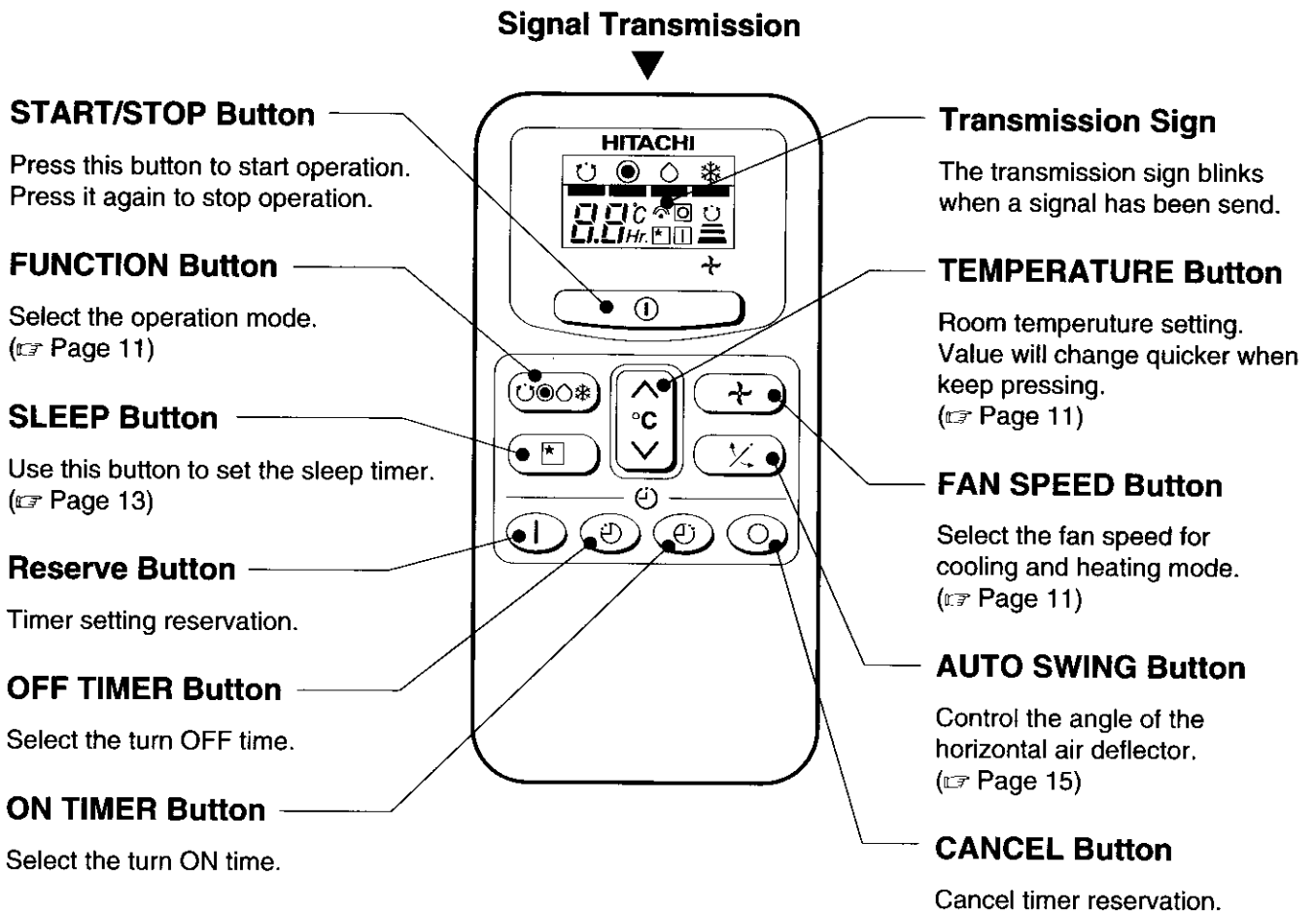
This lamp lights when the timer is working.

SIGNAL RECEIVER

There will be a beep sound when this receiver receive signal from remote controller.

NAMES AND FUNCTIONS OF REMOTE CONTROL UNIT

- This controls the operation function and timer setting of the room air conditioner. The range of control is about 4 meters. If indoor lighting is controlled electronically, the range of control may be shorter.

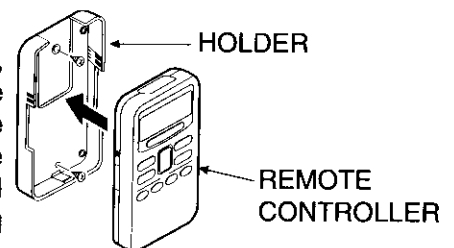


Precautions for Use

- Do not put the remote controller in direct sunlight and high temperature.
- Do not drop it on the floor, and protect it from water.
- If you press the FUNCTION button during operation, the air conditioner may stop for about 3 minutes for protection before you can start it again.

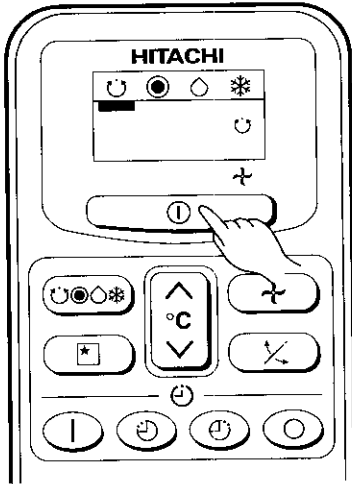
You can use the remote controller by fixing it on the wall with the accessory parts.

- Before fixing it, make sure the unit can be controlled by the remote control unit at the fixing position.



AUTOMATIC OPERATION



- The device will automatically determine the mode of operating, HEAT, COOL or DEHUMIDIFY, depending on the initial room temperature. The selected mode of operating will not change when the room temperature varies.



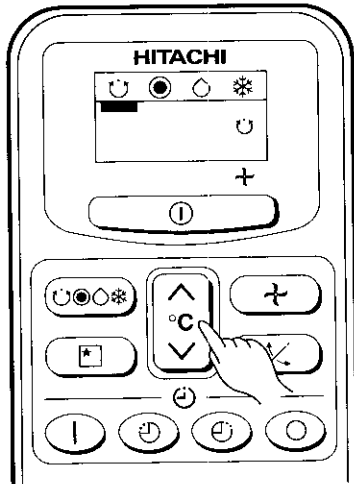
1 Press the (START/STOP) button

- Operation start with a “beep” sound.

STOP Press the (START/STOP) button

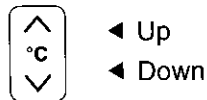
- Make sure the  (Automatic) mode have been selected by using the  (FUNCTION) button.
- The fan speed selector does not work at this operation.

- You can slightly adjust the room temperature.



1 Press the (ROOM TEMPERATURE) button

- Temperature setting change by 1°C for each 1 time press.



- You can raise or lower the temperature setting by a maximum of 3°C.
- The display does not indicate the preset temperature in the Automatic mode. Device will receive the setting by a “beep”.

■ CONDITION OF AUTOMATIC OPERATION

- The selected mode of operation will not change during the operation even though the room temperature change.

INITIAL ROOM TEMPERATURE (APPROX.)	FUNCTION	TEMPERATURE SETTING	FAN SPEED
Over 27°C	→ COOL	27°C	HIGH at start, LOW after the preset temperature is reached
23 ~ 27°C	→ DRY	Slightly lower than the room temperature	LOW
Under 23°C	→ HEAT	23°C	HIGH at start, MED or LOW after the preset temperature is reached

MANUAL OPERATION [Heating • Dehumidify • Cooling]

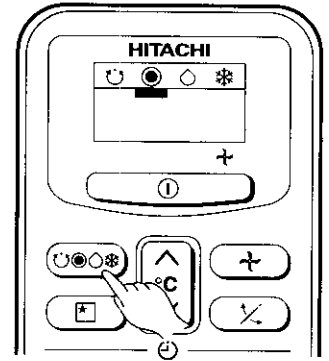
■ Please use below condition when you want to set the function mode, room temperature and fan speed manually.

HEATING	DEHUMIDIFYING	COOLING
Outdoor Temperature 21°C below	Room Temperature 16°C above	Outdoor Temperature 22°C above

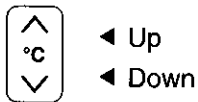
1 OPERATION MODE SELECTION

● Every time you press the button, the mode will change as the below sequence

☺ (Auto) → ● (Heat) → ◊ (Dry) → * (Cool)



2 ROOM TEMPERATURE SETTING

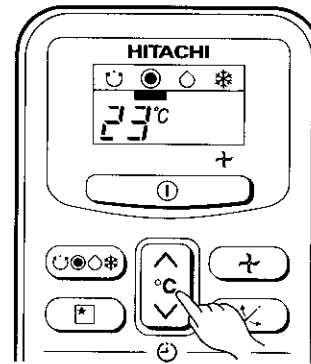


◀ Up
◀ Down

■ Recommend Temperature

Heating	20~24°C
Dehumidify	20~26°C
Cooling	25~28°C

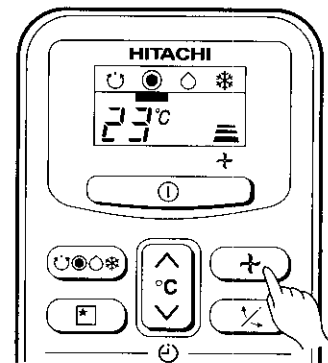
● The cooling operation does not start if the temperature setting is higher than the current room temperature.



3 FAN SPEED SETTING

● Every time you press the button, fan speed will change as the below sequence.

- HEATING } : AUTO → HIGH → MED → LOW
- COOLING } : (☺ → ≡ → = → -)
- DEHUMIDIFYING : LOW (FIXED)
- : (-)

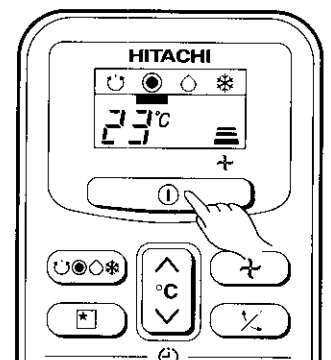


4 Press the (START/STOP) button

● Operation start with a signal received sound "beep".

STOP Press the (START/STOP) button

● As the settings are stored in memory in the remote control unit, you only have to press the (START/STOP) button in order to use the same setting next time.




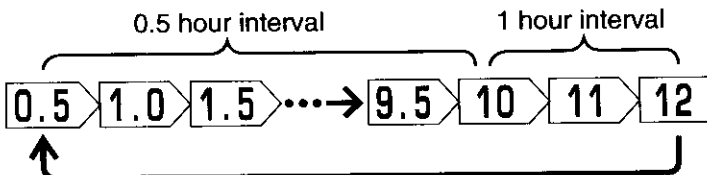
TIMER RESERVATION

■ ON Timer and OFF Timer are available.

OFF Timer Reservation


1 OFF TIME setting

- Select the OFF TIME by pressing the  (OFF) Button.
- Setting time will change according to the below sequence when you press the button.




- The value change quicker if you keep pressing the button.

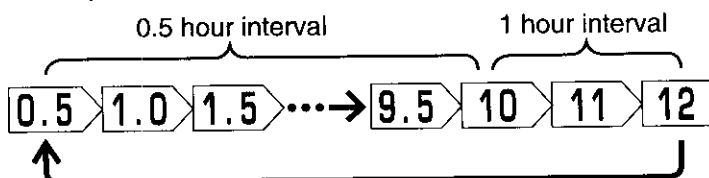
2 Press the (Reserve) button

- OFF TIMER reserved with a signal received sound "beep".
- The  (OFF) Mark starts lighting instead of blinking.

ON Timer Reservation


1 ON TIME setting

- Select the ON TIMER by pressing the  (ON) Button.
- At the beginning of setting, time 6 hours was set.
- Setting time will change according to the below sequence.




- The value change quicker if you keep pressing the button.

2 Press the (Reserve) button

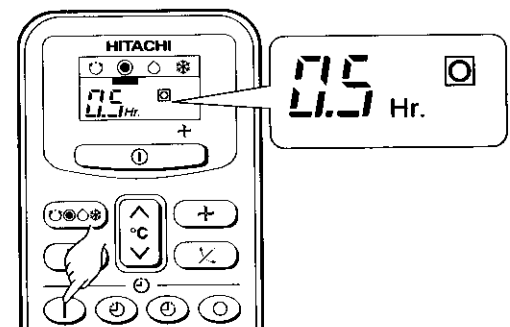
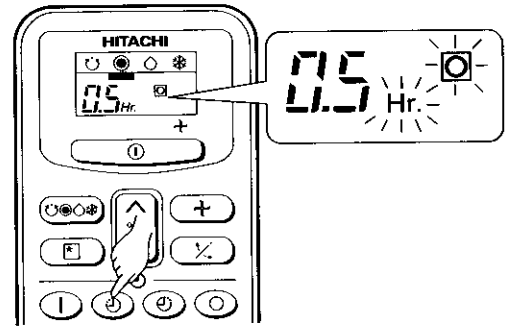
- ON TIMER reserved with a signal received sound "beep".
- The  (ON) Mark starts lighting instead of blinking.

CANCELLATION of Timer Reservation

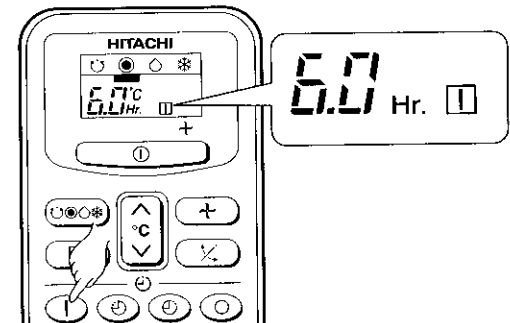
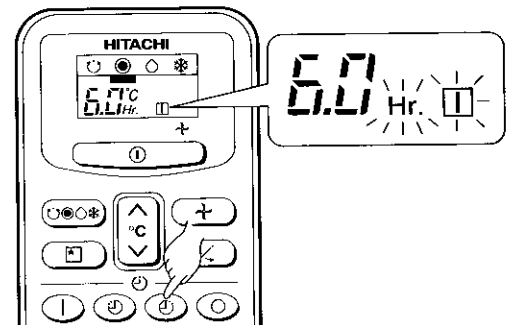
1 Press the (Cancel) button

- As the time settings are stored in remote controller memory, you only have to press the  (Reserve) button in order to use the same setting next time.


■ Operation stop at setting time

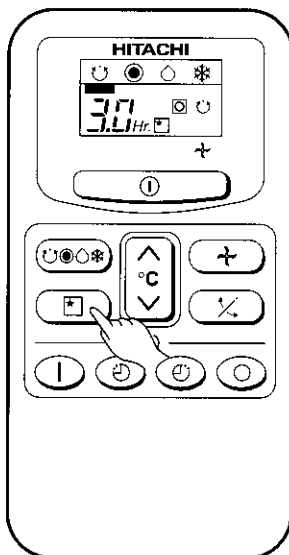


■ Operation will start for setting temperature at setting time (The starting time may different depend on the room temperature and set temperature).



HOW TO SET THE SLEEP TIMER

Press the  (SLEEP) button, and the display changes as shown below.






Mode	Indication
Sleep timer	

Sleep Timer: The device will continue working for the designated number of hours and then turn off. Point the signal window of the remote controller toward the indoor unit, and press the SLEEP button. The timer information will be displayed on the remote controller. The TIMER lamp lights with a beep from the indoor unit.

Example: Setting 3 hours sleep time.

How to Cancel Reservation

Point the signal window of the remote controller toward the indoor unit, and press the  (CANCEL) button. The  (RESERVED) sign goes out with a beep and the  (TIMER) lamp turns off on the indoor unit.

NOTE

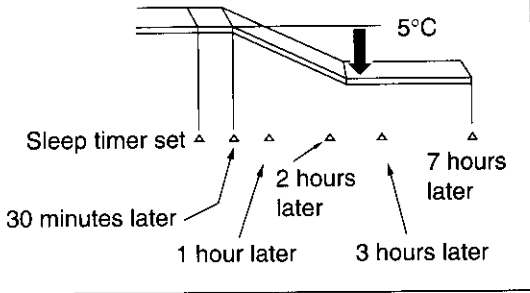
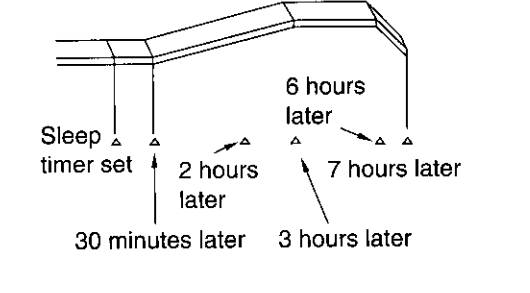
If you set the sleep timer when the off-timer or on/off-timer has been set earlier, the sleep timer becomes effective instead of the off- or on/off-timer set earlier.

Explanation of the sleep timer

The device will control the FAN SPEED and room temperature automatically so as to be quiet and good for people's health.

You can set the sleep timer to turn off after 1, 2, 3 or 7 hours. The FAN SPEED and room temperature will be controlled as shown below.


Operation with the sleep timer

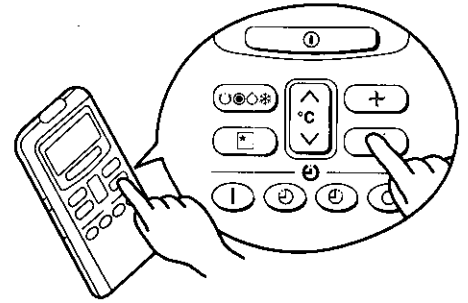
Function	Operation
<p>Heating</p> <p>“ ● ”</p>	<p>The room temperature will be controlled 5°C below the temperature setting 30 minutes after the setting of the sleep timer. The FAN SPEED will be set to LOW immediately.</p> 
<p>Cooling and dehumidifying</p> <p>“ ❄ ”</p> <p>“ ○ ”</p>	<p>The FAN SPEED will be set to LOW immediately.</p> 
<p>Fan</p> <p>“ + ”</p>	<p>The settings of room temperature and circulation are not varied.</p>


ADJUSTING THE AIR DEFLECTOR

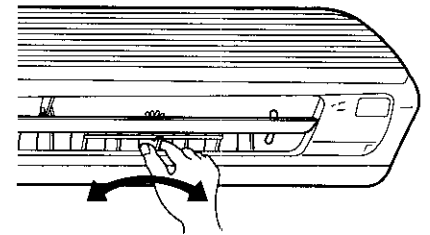
1

Adjustment of the conditioned air in the upward and downward directions.

According to operation, the horizontal air deflector is automatically set to the proper angle suitable for each operation. The deflector can be swung up and down and also set to the desired angle using the “ (AUTO SWING)” button. (If the angle of the deflector is changed, it will not return to the auto-set position after operations start unless the operation mode is switched.)



- If the “ (AUTO SWING)” button is pressed once, the horizontal air deflector swings up and down. If the button is pressed again, the deflector stops in its current position. Several seconds (about 12 seconds) may be required before the deflector starts to move.
- In “Cooling” operation, do not keep the horizontal air deflector swinging for a long time. Some dew may form on the horizontal air deflector and some dew may fall from it.



2

Adjustment of the conditioned air to the left and right.

Hold the vertical air deflector as shown in the figure and adjust the conditioned air to the left and right.

HOW TO EXCHANGE THE BATTERIES IN THE REMOTE CONTROLLER

1

Remove the cover as shown in the figure and take out the old batteries.

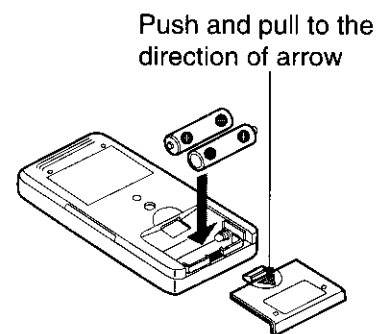


2

Install the new batteries. The direction of the batteries should match the marks in the case.

CAUTION

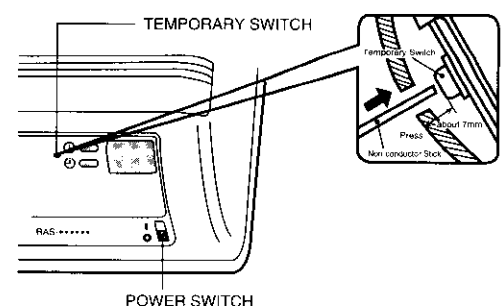
1. Do not use new and old batteries, or different kinds of batteries together.
2. Take out the batteries when you do not use the remote controller for 2 or 3 months.



TEMPORARY SWITCH

Use the temporary switch when operation can not be done with the remote controller.

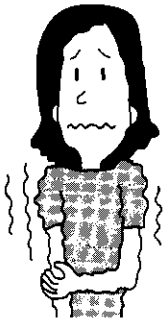
1. By pressing the temporary switch, the operation is done in previously set operation mode. When the operation is done using the temporary switch after the power source is turned off and is turned on again, the operation is done in automatic mode.





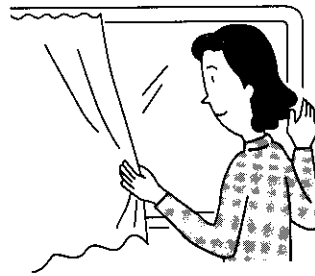
THE IDEAL WAYS OF OPERATION

Suitable Room Temperature



Warning
Freezing temperature is bad for health and a waste of electric power.

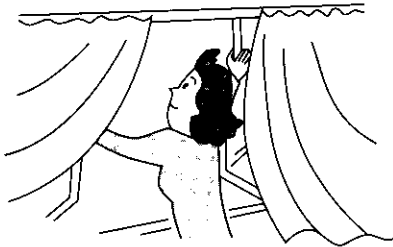
Install curtain or blinds



It is possible to reduce heat entering the room through windows.

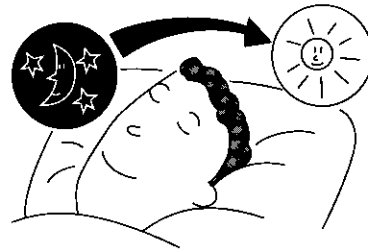
Ventilation

Caution
Do not close the room for a long period of time. Occasionally open the door and windows to allow the entrance of fresh air.



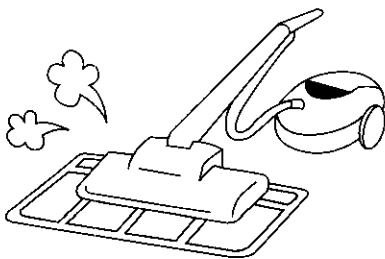
Effective Usage Of Timer

At night, please use the "sleep timer operation mode", together with your wake up time in the morning. This will enable you to enjoy a comfortable room temperature. Please use the timer effectively.



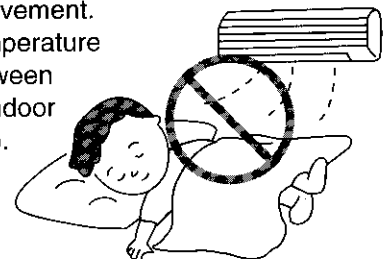
Do Not Forget To Clean The Air Filter

Dusty air filter will reduce the air volume and the cooling efficiency. To prevent from wasting electric energy, please clean the filter every 2 weeks.



Please Adjust Suitable Temperature For Baby And Children

Please pay attention to the room temperature and air flow direction when operating the unit for baby, children and old folks who have difficulty in movement. (The ideal temperature difference between outdoor and indoor is about $\pm 5^{\circ}\text{C}$).



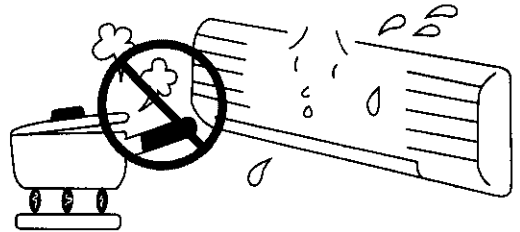


FOR USER'S INFORMATION

The Air Conditioner And The Heat Source In The Room

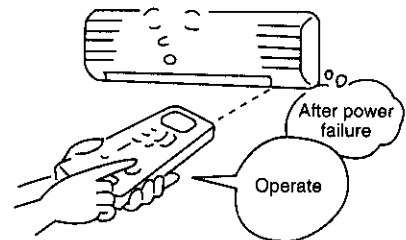
⚠ Caution

If the amount of heat in the room is above the cooling capability of the air conditioner (for example, more people entering the room, using heating equipments and etc.), the preset room temperature cannot be achieved.



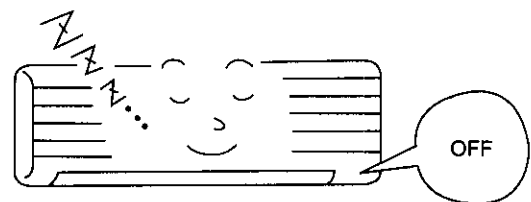
After Power Failure

When the power is resumed after a power failure, the indoor unit will still remain "OFF". To operate the unit, please press the "ON/OFF" button again.



Not Operating For A Long Time

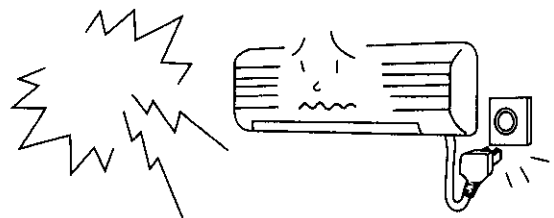
When the indoor unit is not to be used for a long period of time, please switch off the power from the mains. If the power from mains remains "ON", the indoor unit still consumes about 4W in the operation control circuit even if it is in "OFF" mode.



When Lightning Occurs

⚠ Warning

To protect the whole unit during lightning, please stop operating the unit and remove the plug from the socket.





MAINTENANCE

⚠ CAUTION

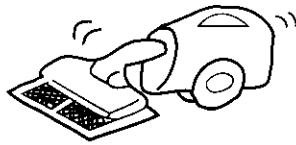
Before the cleaning, stop operation and disconnect the power supply.

1. AIR FILTER

Clean the air filter, as it removes dust inside the room. In case the air filter is full of dust, the air flow will decrease and the cooling capacity will be reduced. Further, noise may occur. Be sure to clean the filter following the procedure below.

PROCEDURE

1. Remove dust from the filter using a vacuum cleaner. If there is too much dust, use neutral detergent. After using neutral detergent, wash with clean water and dry in the shade.
2. Install the filters. (Set them with "FRONT" mark facing front.) Slot in the filter to the original state.



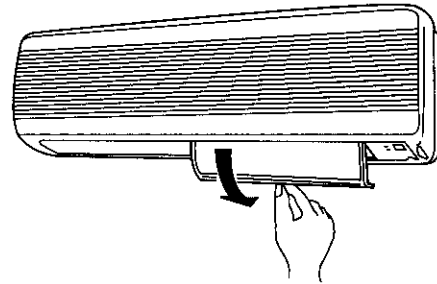
⚠ CAUTION

- Do not wash with hot water at more than 40°C. The filter may shrink.
- When washing it, shake off moisture completely and dry it in the shade; do not expose it directly to the sun. The filter may shrink.
- Do not operate the air conditioner with the filter removed. Dust may enter the air conditioner and cause trouble.

NOTE:

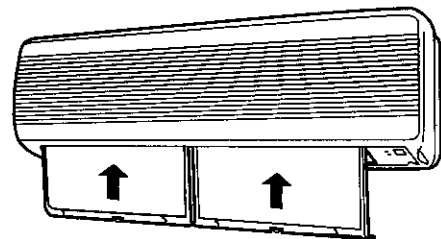
- This model has an air cleaning filter. The cooling capacity is slightly weakened and the cooling speed becomes slower when the air cleaning filter is used. So, set the fan speed to "HIGH" when using it in this condition.
- Recommended to replace the air cleaning filter after every 3 months for normal usage. Type number for this air cleaning filter is <SPX-CFH3>. Please use this number for ordering when you want to renew it.

REMOVING METHOD



1. Press the " X (AUTO SWING)" button, let the deflector facing downward.
2. Remove the filter from the lower side as the arrow shown.

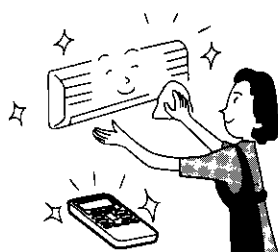
INSTALLATION METHOD



Set the filter with "FRONT" mark facing front, and slot in them to the original state.

2. CLEANING OF FRONT COVER, ETC.

- Wipe it with a soft dry cloth.
- When it is excessively dirty, wipe with a soft cloth soaked in lukewarm water or neutral detergent. Then wipe thoroughly with a soft dry cloth.
- Wipe the remote controller thoroughly with a soft dry cloth.



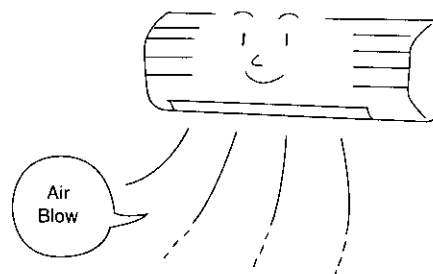
⚠ CAUTION

- Never use hot water (above 40°C), benzene, gasoline, acid, thinner or a brush, because they will damage the plastic surface and the coating.



3. MAINTENANCE AT BEGINNING OF LONG OFF PERIOD

- Running the unit setting the operation mode to ∇ (FAN) and the fan speed to HI for about half a day on a fine day, and dry the whole of the unit.
- Disconnect the power plug.



REGULAR INSPECTION

PLEASE CHECK THE FOLLOWING POINTS EVERY EITHER HALF YEARLY OR YEARLY. CONTACT YOUR SALES AGENT SHOULD YOU NEED ANY HELP.

1		<p>Is the plug of power line firmly plugged into the socket? (Please ensure no loose contact between them).</p>
2		<p>Is the earth line disconnected or broken?</p>
3		<p>Is the mounting frame seriously affected by rust and is the outdoor unit tilted or unstable?</p>