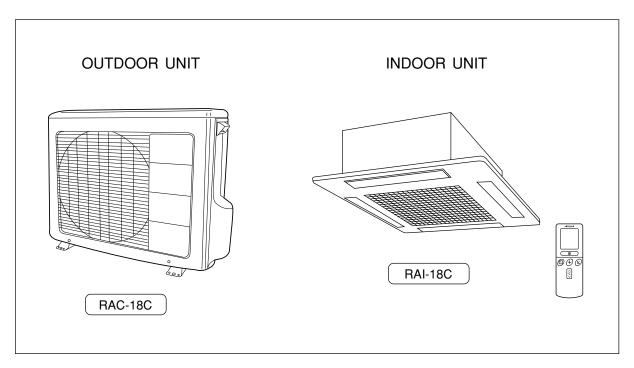


# CEILING CASSETTE TYPE AIR CONDITIONER

# INDOOR UNIT/OUTDOOR UNIT

MODEL RAI-18C

RAC-18C



Instruction manual

Page 1~24

To obtain the best performance and ensure years of trouble free use, please read this instruction manual completely.



## SAFETY PRECAUTION

- Please read the "Safety Precaution" carefully before operating the unit to ensure correct usage of the unit.
- Pay special attention to signs of "A Warning" and "A Caution". The "Warning" section contains matters which, if not observed strictly, may cause death or serious injury. The "Caution" section contains matters which may result in serious consequences if not observed properly. Please observe all instructions strictly to ensure safety.
- The sign indicate the following meanings.

Make sure to connect earth line.

The sign in the figure indicates prohibition.

Indicates the instructions that must be followed:

Please keep this manual after reading.

### PRECAUTIONS DURING INSTALLATION

• Do not reconstruct the unit. Water leakage, fault, short circuit or fire may occur if you reconstruct the unit by yourself.





 Please ask your sales agent or qualified technician for the installation of your unit. Water leakage, short circuit or fire may occur if you install the unit

• Please use earth line. Do not place the earth line near water or gas pipes, lightning-conductor, or the earth line of telephone. Improper installation of earth line may cause electric shock.





- A circuit breaker should be installed depending on the mounting site of the unit. Without a circuit breaker, the danger of electric shock exists.
- Do not install near location where there is flammable gas. The outdoor unit may catch fire if flammable gas leaks around it.



• Please ensure smooth flow of water when installing the drain hose.

### PRECAUTIONS DURING SHIFTING OR MAINTENANCE

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П Ν G  Should abnormal situation arises (like burning smell), please stop operating the unit and turn off the circuit breaker. Contact your agent. Fault, short circuit or fire may occur if you continue to operate the unit under abnormal situation.



- Please contact your agent for maintenance. Improper self maintenance may cause electric shock and fire.
- Please contact your agent if you need to remove and reinstall the unit. Electric shock or fire may occur if you remove and reinstall the unit yourself improperly.

### PRECAUTIONS DURING OPERATION

Avoid an extended period of direct air flow for your health.





- Do not insert a finger, a rod or other objects into the air outlet or inlet. As the fan is rotating at a high speed, it will cause injury. Before cleaning, be sure to stop the operation and turn the breaker OFF.
- Do not use any conductor as fuse wire, this could cause fatal accident.





• During thunder storm, disconnect and turn off the circuit breaker.

### PRECAUTIONS DURING OPERATION

• The product shall be operated under the manufacturer specification and not for any other intended use.





- Do not attempt to operate the unit with wet hands, this could cause fatal accident.
- When operating the unit with burning equipments, regularly ventilate the room to avoid oxygen insufficiency.





- Do not direct the cool air coming out from the air-conditioner panel to face household heating apparatus as this may affect the working of apparatus such as the electric kettle, oven etc.
- Please ensure that outdoor mounting frame is always stable, firm and without defect. If not, the outdoor unit may collapse and cause danger.





- Do not splash or direct water to the body of the unit when cleaning it as this
  may cause short circuit.
- Do not use any aerosol or hair sprays near the indoor unit. This chemical can adhere on heat exchanger fin and blocked the evaporation water flow to drain pan. The water will drop on tangential fan and cause water splashing out from indoor unit.





- Please switch off the unit and turn off the circuit breaker during cleaning, the high-speed fan inside the unit may cause danger.
- Turn off the circuit breaker if the unit is not to be operated for a long period.





- Do not climb on the outdoor unit or put objects on it.
- When operating the unit with the door and windows opened, (the room humidity is always above 80%) and with the air deflector facing down or moving automatically for a long period of time, water will condense on the air deflector and drips down occasionally. This will wet your furniture. Therefore, do not operate under such condition for a long time.
- If the amount of heat in the room is above the cooling or heating capability of the unit (for example: more people entering the room, using heating equipments and etc.), the preset room temperature cannot be achieved.
- This appliance is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the appliance safely.
- Young children should be supervised to ensure that they do not play with the appliance.



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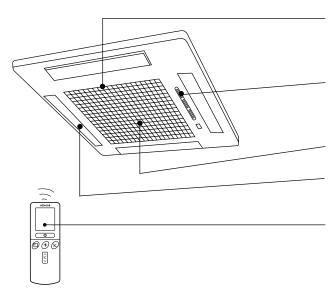
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### **INDOOR UNIT**



### **AIR FILTER**

To prevent dust from coming into the indoor unit. (Refer page 20)

### **INDOOR UNIT INDICATORS**

Light indicator showing the operating condition. (Refer page 5)

**SUCTION GRILL (AIR INLET)** 

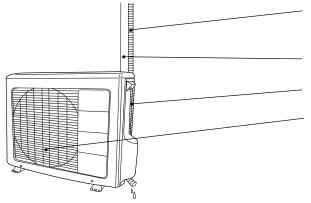
HORIZONTAL DEFLECTOR (AIR OUTLET)

(Refer page 16)

### REMOTE CONTROL

Send out operation signal to the indoor unit. So as to operate the whole unit. (Refer page 6)

### **OUTDOOR UNIT**



### **DRAIN PIPE**

Condensed water drain to outside.

**CONNECTING CORD** 

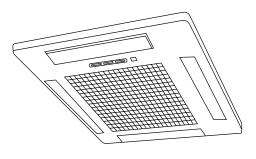
AIR INLET (BACK, LEFT SIDE)

**AIR OUTLET** 

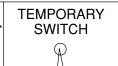
### **MODEL NAME AND DIMENSIONS**

MODEL	WIDTH (mm)	HEIGHT (mm)	DEPTH (mm)
RAI-18C	580	285	580
RAC-18C	750	570	280

### **OPERATION INDICATOR**



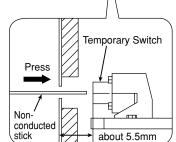




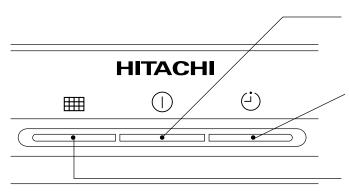
### **TEMPORARY SWITCH**

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 will be done in automatic mode.



### **INDOOR UNIT INDICATORS**



### **OPERATION LAMP**

This lamp lights during operation.

### TIMER LAMP

This lamp lights when the timer is working.

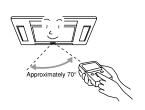
### **FILTER LAMP**

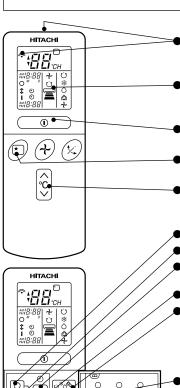
When the device is operated for a total of about 200 hours, the FILTER lamp lights to indicate that it is time to clean the filter. The lamp goes out when the "(X) (AUTO SWING)" button is pressed while the device is on "STANDBY MODE".

### NAMES AND FUNCTIONS OF REMOTE CONTROL UNIT

### REMOTE CONTROLLER

- Operate by pointing towards the signal receptor on the indoor unit. The range of control is about 7 meters. Signal receivable angle range is approximately 70°. However, if there is an electronic light sensor device (inverter) in the room, signal may not be received or receivable distance may become shorter.
- Indoor unit must be install 1 meter or more away from lighting.
- Handle the remote controller with care. Dropping it or getting it wet may compromise its signal transmission capability.
- After new batteries are inserted into the remote controller, the unit will initially require approximately 10 seconds to respond to commands and operate.





Signal emitting window/transmission sign

Point this window toward the indoor unit when controlling it.

The transmission sign blinks when a signal is sent.

Display

This indicates the room temperature selected, current time, timer status, function and intensity of circulation selected.

**■ START/STOP button** 

Press this button to start operation. Press it again to stop operation.

SLEEP button

Use this button to set the sleep timer.

TEMPERATURE buttons

Use these buttons to raise or lower the temperature setting. (Keep pressed, and the value will change more quickly.)

- OFF-TIMER button Select the turn OFF time.
- ON-TIMER button Select the turn ON time.
- TIME button

Use this button to set and check the time and date.

- RESET buttons
- FUNCTION selector

Use this button to select the operating mode. Every time you press it, the mode will change from  $\circlearrowleft$  (AUTO) to  $\circledast$  (COOL) to  $\circlearrowleft$  (DEHUMIDIFY) to  $\circledcirc$  (CIRCULATION) and to  $\nleftrightarrow$  (FAN) cyclically.

FAN SPEED selector

This determines the fan speed. Every time you press this button, the intensity of circulation will change from  $\circlearrowleft$  (AUTO) to  $\equiv$  (HI) to  $\equiv$  (MED) to  $\equiv$  (LOW) (This button allows selecting the optimal or preferred fan speed for each operation mode).

AUTO SWING button

Controls the angle of the horizontal air deflector.

TIMER control

Use this button to set the timer.

- RESERVE button Time setting reservation.
- CANCEL button Cancel time reservation.

### **Precautions for Use**

- Do not put the remote controller in the following places.
  - Under direct sunlight.
  - In the vicinity of a heater.
- Handle the remote controller carefully. Do not drop it on the floor, and protect it from water.
- Once the outdoor unit stops, it will not restart for about 3 minutes (unless you turn the power switch off and on or unplug the power cord and plug it in again).

This is to protect the device and does not indicate a failure.

• If you press the FUNCTION selector button during operation, the device may stop for about 3 minutes for protection.

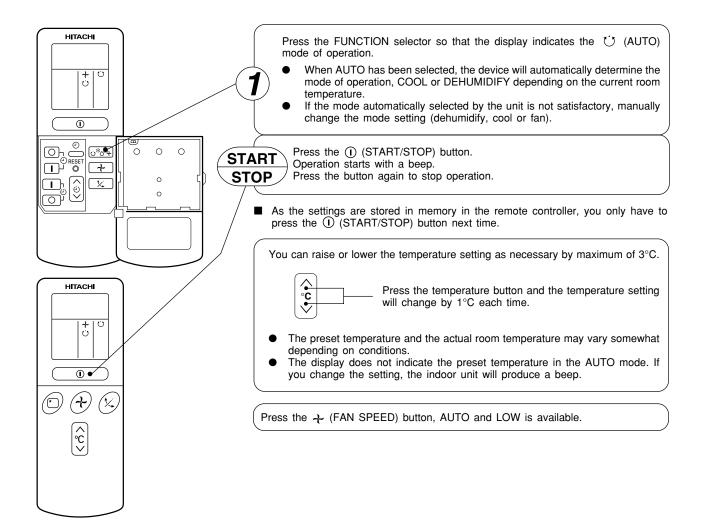
### **VARIOUS FUNCTIONS**

### ■ Auto Restart Control

- If there is a power failure, operation will be automatically restarted when the power is resumed with previous operation mode and airflow direction.
  - (As the operation is not stopped by remote controller.)
- If you intend not to continue the operation when the power is resumed, switch off the power supply.
   When you switch on the circuit breaker, 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 sales agent or OFF by remote control.
    - 2. Auto Restart Control is not available when Timer or Sleep Timer mode is set.

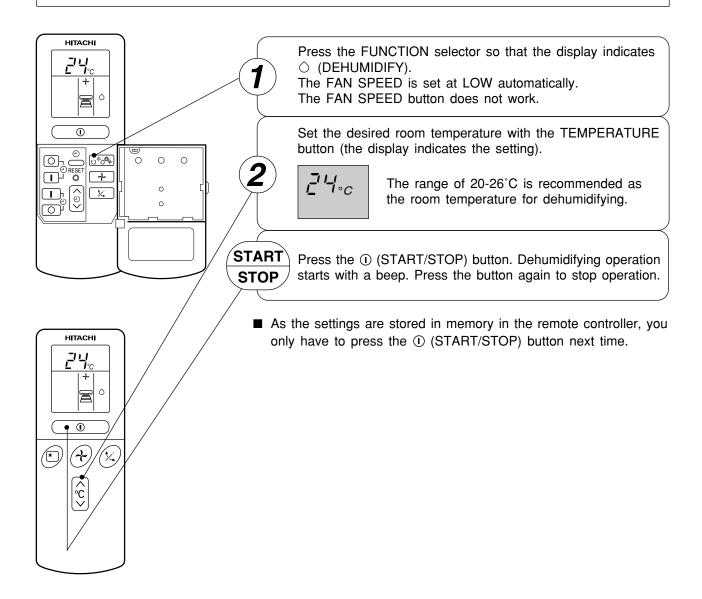
### **AUTOMATIC OPERATION**

The device will automatically determine the mode of operation, COOL or DEHUMIDIFY depending on the current room temperature. The selected mode of operation will change when the room temperature varies. However the mode of operation will not change when indoor unit connected to multi type outdoor unit.



### **DEHUMIDIFYING OPERATION**

Use the device for dehumidifying when the room temperature is over 16°C. When it is under 15°C, the dehumidifying function will not work.



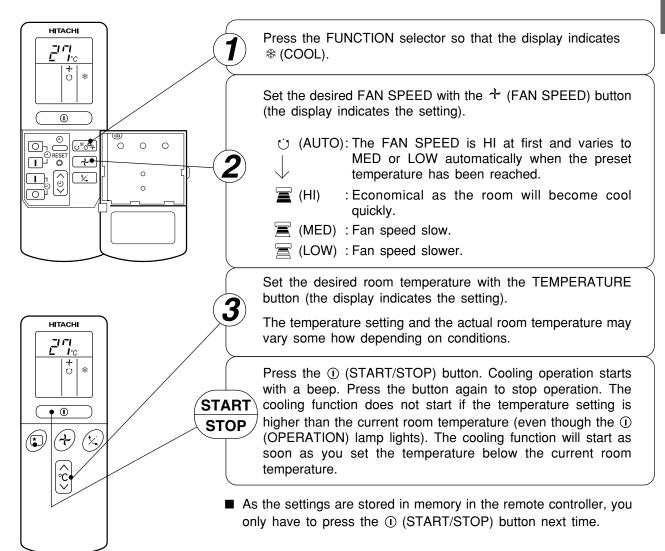
### **■** Dehumidifying Function

When the room temperature is higher than the temperature setting: The device will dehumidify the room, reducing the room temperature to the preset level.

When the room temperature is lower than the temperature setting: Dehumidifying will be performed at the temperature setting slightly lower than the current room temperature, regardless of the temperature setting. The function will stop (the indoor unit will stop emitting air) as soon as the room temperature becomes lower than the setting temperature.

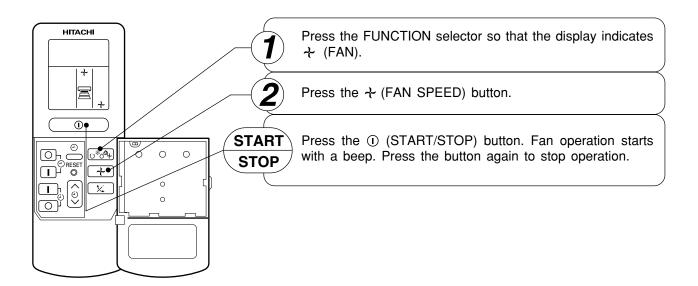
### **COOLING OPERATION**

Use the device for cooling when the outdoor temperature is 22-43°C. If in doors humidity is very high (80%), some dew may form on the air outlet grille of the indoor unit.



### **FAN OPERATION**

You can use the device simply as an air circulator. Use this function to dry the interior of the indoor unit at the end of summer.



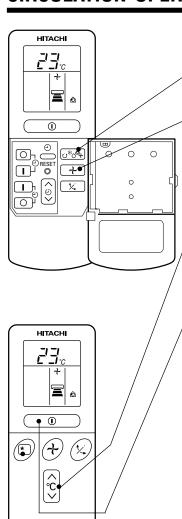
### FAN SPEED (AUTO)

..... When the AUTO fan speed mode is set in the cooling operation:

For the cooling operation

- When the difference of room temperature and setting temperature is large, fan starts to run at HI speed.
- After room temperature reaches the preset temperature, the cooling operation, which changes the fan speed and room temperature to obtain optimum conditions for natural healthful cooling will be performed.

### **CIRCULATION OPERATION**



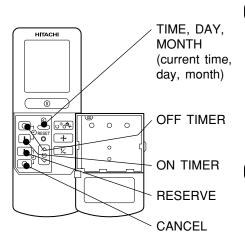
Press the FUNCTION selector so that the display indicates (CIRCULATE).

Press the FAN SPEED button and select the desired FAN SPEED (the display indicates your choice).

Press the temperature control button to set to the desired temperature.

START Press the ① (START/STOP) button. Circulating operation starts with a beep. Press the button again to stop operation.

■ As the settings are stored in memory in the remote controller, you only have to press the ① (START/STOP) button next time.



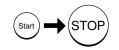
### Time, Day, Month

After you change the batteries;

**1** Set the current month and day with the TIMER control button.

### OFF-Timer

**1** Press the <sup>□</sup><sub>⊙</sub> (OFF-TIMER) button. The ○ (OFF) mark blinks on the display.



**→** ○¬ → AM Ū:ŪŪ

You can set the device to turn off at the present time.

### **ON-Timer**

Stop Start

**1** Press the | □ (ON-TIMER) button the | (ON) mark blinks on the display.

 The device will turn on at the designated times.



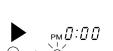
### ON/OFF-Timer



switching operations.

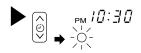
The device will turn on (off) and off (on) at the designated times. The switching occurs first at the preset time that comes earlier. The arrow mark appearing on the display indicates the sequence of

**1** Press the ○ ON-OFF) button so that the O(OFF) mark blinks.



2 Set the turn-off time with the TIMER control button.

Press the | (RESERVE) button.



**3** Press the | ☐ (ONTIMER) button so that the ☐ (OFF) mark lights and the ☐ (ON) mark blinks.



### **How to Cancel Reservation**

Point the signal window of the remote controller toward the indoor unit, and press the  $\bigcirc$  (CANCEL) button.

The (a) (RESERVED) sign goes out with a beep and the (b) (TIMER) lamp turns off on the indoor unit.

### NOTE

You can set only one of the OFF-timer, ON-timer and ON/OFF-timer.

**2** Press the ① (TIME) button.

 $oldsymbol{3}$  Set the current time with the TIMER control button.

4 Press the ⊕ (TIME) button again. The time indication starts lighting instead of flashing.







Example: The current time is 1:30 p.m.

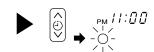


 The time indication will disappear automatically in 10 second.

To check the current time setting, press the (TIME) button twice.

The setting of the current time is now complete.

 $oldsymbol{2}$  Set the turn-off time with the TIMER control button.



 $oldsymbol{3}$  Point the signal window of the remote controller toward the indoor unit, and press the | (RESERVE) button.

The (OFF) mark starts lighting instead of flashing and the sign (i) (RESERVED) lights. A beep occurs and the (i) (TIMER) lamp lights on the indoor unit.



Example: The device will turn off at 11:00p.m.

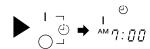
The setting of turn-off time is now complete.

**2** Set the turn-on time with the TIMER control button.



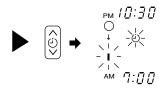
 $oldsymbol{3}$  Point the signal window of the remote controller toward the indoor unit, and press the ▮ (RESERVE) button.

The I (ON) mark starts lighting instead of flashing and the ⊕ (RESERVED) sign lights. A beep occurs and the (i) (TIMER) lamp lights on the indoor unit.



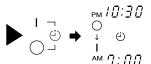
The device will turn on at 7:00 a.m.
The setting of the turn-on time is now complete.

 $m{4}$  Set the turn-on time with the TIMER control button.



**5** Point the signal window of the remote controller toward the indoor unit, and press the (RESERVE) button.

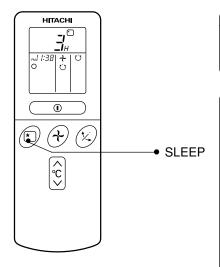
The I (ON) mark starts lighting instead of flashing and the (≟) (RESERVED) sign lights. A beep occurs and the (1) (TIMER) lamp lights on the indoor unit.



The device will turn off at 10:30 p.m. and it will be turned on at 7:00 a.m.
The settings of the turn-on/off times are now complete.

- The timer may be used in three ways: off-timer, on-timer, and ON/OFF (OFF/ON)-timer. Set the current time at first because it serves as a reference.
- As the time settings are stored in memory in the remote controller, you only have to press the | (RESERVE) button in order to use the same settings next time.

Set the current time at first if it is not set before (see the pages for setting the current time). Press the  $\bigcirc$  (SLEEP) button, and the display changes as shown below.



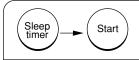
Mode	Indication
Sleep timer	1 hour → 2 hours → 3 hours → 7 hours → Sleep timer off ←

**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. When the sleep timer has been set, the display indicates the turn-off time.

Example: If you set 3 hours sleep time at 11:38 p.m., the turn-off time is 2:38 a.m.



The device will be turned off by the sleep timer and turned on by on-timer.

1 Set the ON-timer.

**2** Press the \* (SLEEP) button and set the sleep timer.

For heating:

In this case, the device will turn off in 2 hours (at 1:38 a.m.) and turn on early so that the preset temperature will be almost reached at 6:00 next morning.

### **How to Cancel Reservation**

Point the signal window of the remote controller toward the indoor unit, and press the  $\bigcirc$  (CANCEL) button.

The () (RESERVED) sign goes out with a beep and the () (TIMER) lamp turns off on the indoor unit.

### 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	
Cooling  " * * "  and  dehumidifying  " \( \) "	The room temperature will be controlled 2°C above the temperature and the FAN SPEED will be set to LOW setting 1 hour after the setting of the sleep timer.  2°C  6 hours later  7 hours later  1 hour 3 hours later	
Fan " → "	The settings of room temperature and circulation are varied.	

### NOTE

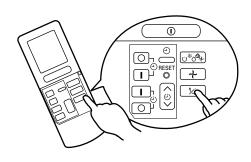
- If date or current time is not set, sleep timer can not be set.
- If you set the sleep timer after the off-, on/off- or off/on-timer has been set, the sleep timer becomes effective instead of the off-, on/off- or off/on-timer set.
- You can not set other timer during sleep timer operation.
- The angle of horizontal air deflector shifts up automatically after three hours on sleep timer operation.
- Fan will stop for a while if room temperature reaches setting temperature.

### ADJUSTING THE AIR DEFLECTOR

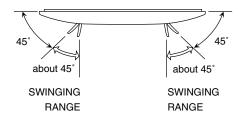


Adjustment of the conditioned air in the upward and downward directions.

According to "Dehumidifying" or "Cooling" 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 autoset 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 6 seconds) may be required before the deflector starts to move.
- Use the horizontal air deflector within the adjusting range shown on the right.
- When the " (AUTO SWING)" button is pressed while the operation is stopped, the horizontal air deflector moves and stops at the position where the air outlet closes.
- When the auto swing operation is performed, if the horizontal air deflector is moved manually, the swinging range may drift. However, it will return to the original operation range after a short time.



### **A** CAUTION

When operating the unit in cooling operation with the air deflector facing down and moving automatically for a long period of time, water will condensed on the air deflector and drips down occasionally. This will wet your furniture.

### HOW TO EXCHANGE THE BATTERIES IN THE REMOTE CONTROLLER



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





Install the new batteries.

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

# Push and pull to the direction of arrow

### **A** 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.

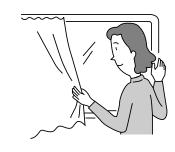
### **Suitable Room Temperature**



### 🛕 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**

### A 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 "OFF or ON 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



### 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 Air Conditioner And The Heat Source In The Room

### **A** 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.



### Not Operating For A Long Time

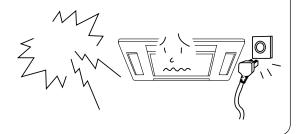
When the indoor unit is not to be used for a long period of time, please switch off the power from the mains. If the power from mains remains "ON", the indoor unit still consumes about 8W in the operation control circuit even if it is in "OFF" mode.



### When Lightning Occurs

### A Warning

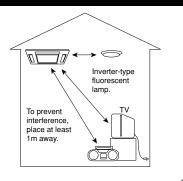
To protect the whole unit during lightning, please stop operating the unit and remove the plug from the socket.



### **Interference From Electrical Products**

### A Caution

To avoid noise interference, please place the indoor unit and its remote controller at least 1m away from electrical products.



### **A** CAUTION

Cleaning and maintenance must be carried out by qualified service personnel.

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

Clean the filter at least once every one month. This helps save electricity cost.

### 1. CLEANING OF AIR FILTER III

### REMOVAL AND ATTACHMENT OF AIR FILTER

### PROCEDURE



Remove the filter from indoor

- Press the mark "PUSH" on the left and right sides of the suction grille.
- Pull out the filter from the grille.



Remove dust from the filter using a vacuum cleaner.

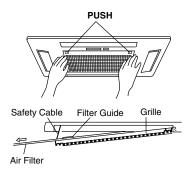
If there is too much dust, use neutral detergent. After using neutral detergent, wash with clean water and dry in the shade.



Install the filter. (Set it with "UP SIDE" mark facing front.)

Slot the filter to suction grille and close as original state.

(Press the mark "PUSH" at the left and right sides of the suction grille to fix it securely.)





### 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-CFH5>. Please use this number for ordering when you want to renew it.

### **A** 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.

### 2. CLEANING OF FRONT PANEL

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

### **A** CAUTION

- Do not splash or direct water to the body of the unit when cleaning it as this may cause short circuit.
- Never use hot water (above 40°C), benzine, 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.
- Turn off the circuit breaker.



### REGULAR INSPECTION

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

		Is the earth line disconnected or broken?	
1		★ WARNING Coming off or breakage of grounding wire may cause malfunction or electrical shock.	
2		Is the mounting frame seriously affected by rust and is the outdoor unit tilted or unstable?  WARNING  Outdoor unit may fall or drop if there is extreme rust on mounting frame or outdoor unit is unstably installed. This may cause injury.	
3	Confirm	Is the plug of power line firmly plugged into the socket? (Please ensure no loose contact between them).	

### AFTER SALES SERVICE AND WARRANTY

### WHEN ASKING FOR SERVICE, CHECK THE FOLLOWING POINTS.

CONDITION	CHECK THE FOLLOWING POINTS
When it does not operate	<ul> <li>Is the fuse blown out or the circuit breaker tripped?</li> <li>Is the voltage normal?</li> <li>Is the circuit breaker "ON"?</li> </ul>
When it does not cool well When it does not hot well	<ul> <li>Is the air filter blocked with dust?</li> <li>Does sunlight fall directly on the outdoor unit?</li> <li>Is the air flow of the outdoor unit obstructed?</li> <li>Are the doors or windows opened, or is there any source of heat in the room?</li> <li>Is the set temperature suitable?</li> </ul>



### **Notes**

- In quiet operation or stopping the running, the following phenomena may occassionally occur, but they are not abnormal for the operation.
  - (1) Slight flowing noise of refrigerant in the refrigerating cycle.
  - (2) Slight rubbing noise from the fan casing which is cooled and then gradually warmed as operation stops.
- The odor will possibly be emitted from the room air conditioner because the various odor, emitted by smoke, foodstuffs, cosmetics and so on, sticks to it. So please clean the air filter and the evaporator regularly to reduce the odor.
- Please contact your sales agent immediately if the air conditioner still fails to operate normally after the above inspections. Inform your agent of the model of your unit, production number, date of installation. Please also inform him regarding the fault.
- Power supply shall be connected at the rated voltage, otherwise the unit will be broken or could not reach the specified capacity.

Please note:

On switching on the equipment, particularly when the room light is dimmed, a slight brightness fluctuation may occur. This is of no consequence.

The conditions of the local Power Supply Companies are to be observed.

### Note

 Avoid to use the room air conditioner for cooling operation when the outside temperature is below 21°C (70°F).

The recommended maximum and minimum operating temperatures of the hot and cold sides should be as below:

		Cooling	
		Minimum	Maximum
Indoor	Dry bulb °C	21	32
	Wet bulb °C	15	23
Outdoor	Dry bulb °C	21	43
	Wet bulb °C	15	26

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