# Ceiling Cassette Air Conditioner OWNER'S MANUAL

- Please read carefully and thoroughly this manual before operating this unit.
- Contact the authorized SVC man for repair or maintenance of this unit.
- Contact the installer for installation of this unit.
- The appliance is not intended for use by young children or infirm persons without supervision.
- Young children should be supervised to ensure that they do not play with the appliance.

Prior to installation, this air-conditioning unit must be submitted for approval by the utility service which provides electricity (EN 61000-3 Norm).

	Safety Precautions Warning	1		
salety Frecautions	Caution			
ר ק	Wireless Remote Controller (optional)			
5	Set the Current Time and This symbol indicates the possibility of death or serious injury.	This symbol indicates the possibility of death or serious injury.		
00	a day of the Week			
	Holiday Setting       9         Timer Setting       9         Self-diagnosis Function       9         Operation Mode       10         Operation Procedure       10			
	Care and Maintenance			
21	Outdoor unit	h		
	Purifying filter			
<u> </u>	Not used for a long time22 • Improper installation may cause water leakage, electrical shock, or fire. Please consult authorized dealer or specialist			
	Troubleshooting tips       for the installation work.         Before You       • Unit must be installed in an easily accessible area.			
	→ MARNING →	<i>v</i>		
	Do not damage or use an unspecified power cable.     Do not operate switches with wet hands.     Plug in the power plug properly.			
	<ul> <li>It will cause electrical shock or fire.</li> <li>If the supply cord is damaged, it must be replaced by a service agent or a similarly qualified person in order to avoid a hazard.</li> <li>It may cause electrical shock.</li> <li>It will cause electrical shock or fire due to heat generation.</li> </ul>			
Cale	Do not operate or stop the unit by supplying the main power or pulling out the power cabel.			
sd	It will cause electrical shock or fire due to heat generation.     • This could damage your health.			
	If an abnormality (smell of burning, etc) occurs, stop the air conditioner, and turn off the breaker.			
Loubles	<ul> <li>If the unit continues to be operated in an abnormal condition, it may cause a fire, trouble, etc. In this case, consult your dealer.</li> <li>If this is done incorrectly, it may cause a fire, electric shock, injury by dropping of the unit, water leakage, etc. Consult your dealer.</li> </ul>			

2

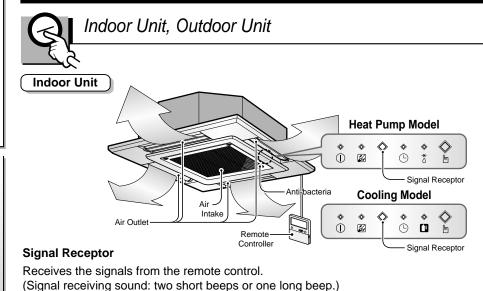
Safaty Procentions

Þ l

Safety Precautions

### CAUTION · Contact the authorized Service technician for repair or maintenance of this unit. · Contact the installer for installation of this unit. The air conditioner is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the air conditioner. o 🕂 CAUTION o Do not clean the air Ventilate well when used When the unit is to be conditioner with excessive together with gas appliances, cleaned, switch off, and turn off the breaker. water otr Water may enter the unit and An oxygen shortage may Since the fan rotates at high degrade the insulation. It may occur. speed during operation, it may cause an electric shock. cause an injury. Do not put a pet or house Do not apply an insecticide Do not leave on installation plant where will be exposed to or flammable spray. stand which is damaged. direct air flow. . This could injure the pet or · It may cause a fire or The unit may drop or fall down plant. deformation of the cabinet. and cause an injury. Do not put gas appliances to When the unit is not going to Do not step on the outdoor direct air flow. be used for a long time, turn unit and do not put anything off the breaker. on it. It may cause imperfect · It may cause an injury. It may cause an injury through combustion. dropping or falling down. Do not operate for a long time Do not step onto an unstable Do not use for special bench when purposes. in high humidity, e.g. leaving a door or window open. attaching/detaching the panel. In the cooling mode, if it is It may case an injury, etc. by Do not use this air conditioner operated in a room with high falling down. to preserve precision devices, humidity (80%r.h. or more) for a food, animal, plants and art long time, water condensed in objects. the air conditioner may drop and It may cause deterioration of may wet and spoil furniture, etc. quality, etc. If the supply cord is damaged, it must be When the air filter is to be Do not insert hands through replaced by a special cord or assembly availible vanes when the air conditioner removed, <u>do not touch the</u> from the manufacturer of its service agent metal parts of the indoor unit. is operating. It will cause electrical shock or · It will cause an injury by the It may cause an injury. fire. rotating blower.

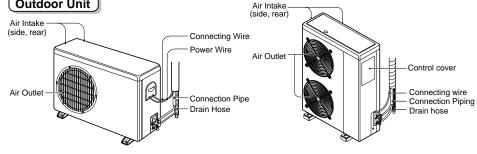
## **Operating Instructions**



### Operation Indication Lamps

0	On/Off	: Lights up during the system operation.	
ø	Filter Sign	: Lights up after 2400 hours from the time of first operating unit. (Refer to page 19.)	
Ŀ	Timer	: Lights up during Timer operation.	
ð	Defrost Mode	: Lights up during Defrost Mode or Hot Start operation. (Heat pump model only)	
	Outdoor Unit Operation	: Lights up during outdoor unit operation. (Cooling model only)	
ŀm	Forced Operation	: Operation procedures when the remote control can't be used.	

### **Outdoor Unit**



Heat pump model: Cassette Type Air Conditioner for cooling and heating Cooling model: Cassette Type Air Conditioner for cooling

4

Ð

### Name and Function of Remote Controller Remote Controller AUTO SWING OPERATION SET TEMP FAN SPEED SUB FUNCTION Heat Pump Model 5 Out dr \*∆☆A 6 3 ∩ 65 17 2 Cooling Model 10 5 11 ∧⊹∧ \*\0▲ 12 4 13 14 7 15 8 16 9 18 9 Plasma Air Clean Button (optional) 1 Operation display Displays the operation conditions. 10 Timer Cancel Button 2 On/Off Button Used to cancel the timer. Operation starts when this button is pressed, 11 Timer Set Button and stops when the button is pressed again. Used to set the timer when the desired time is 3 Set Temperature Button obtained. Used to set the temperature when the desired 12 Week Button temperature is obtained. Used to set a day of the week. 4 FAN Operation Button 13 Program Button Used to circulate room air without cooling or Used to set the weekly timer. heating. 14 Holiday Button 5 Fan Speed Button Used to set a holiday of the week. Used to set the desired fan speed. Time Set Button 6 Operation Mode Selection Button Used to set the time of the day and change the Used to select the operation mode. time in the weekly timer Function. Auto Operation Mode 16 Set and Clear Button Cooling Operation Mode Used to set and clear the weekly timer. Soft Dry Operation Mode 17 Jet Cool Button Heating Operation Mode(except cooling model) Used to select jet cool mode. 7 Auto Swing Button 18 Reset Button Used to swing up and down. Used to set the current time and clear the setting time. 8 Room Temperature Checking Button Used to check the room temperature.



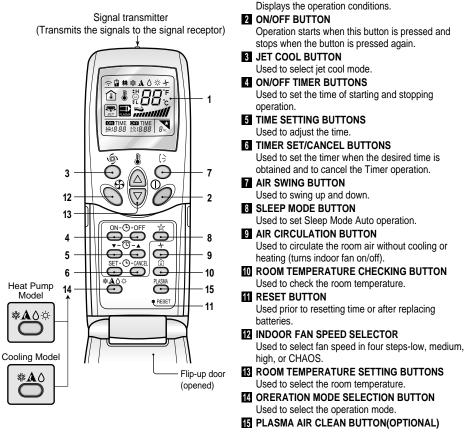
Safety Precautions

**Operating Instructions** 

## Wireless Remote Controller (optional)

This air-conditioner is equipped with wired remote controller basically. But if you want to be available with wireless remote controller, you pay for it.

**1** OPERATION DISPLAY

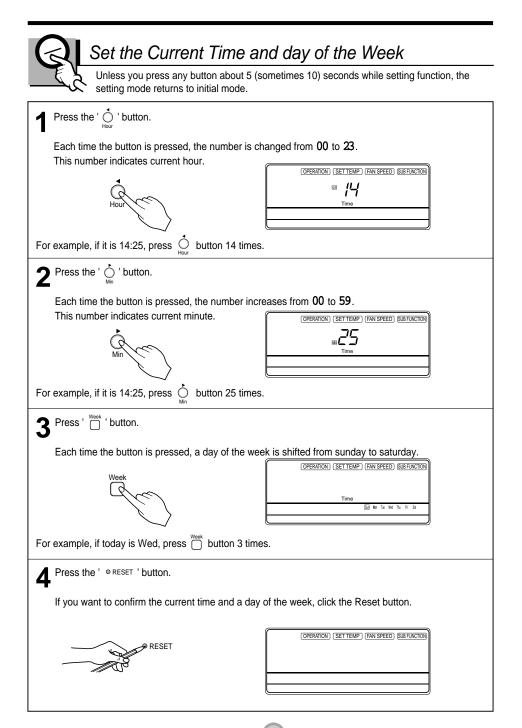


### CAUTION of handling the Remote Controller

- Aim at the signal receptor on the wired remote controller so as to operate.
- The remote control signal can be received at a distance of up to about 7m.
- Be sure that there are no obstructions between the remote controller and the signal receptor.
- Do not drop or throw the remote controller.
- Do not place the remote controller in a location exposed to direct sunlight, or near the heating unit, or any other heat source.
- Block a strong light over the signal receptor with a curtain or etc. so as to prevent the abnormal operation. (ex:electronic quick start, ELBA, inverter type fluorescent lamp)

6

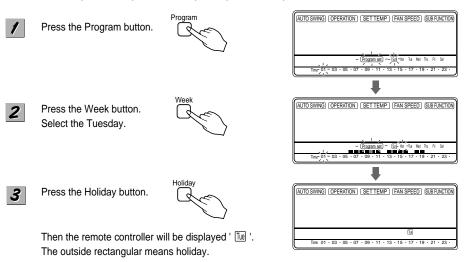
Troubleshooting Tips \*\* Care and Maintenance



Þ.	
Precautions	Weekly Programming
Safety	Press the Program button. The remote controller is displayed like a picture. Then ' Program and '01' is blinked.
tructions	OPERATION         SET TEMP         FAN SPEED         SUB FUNCTION           (OPERATION)         SET TEMP         Final Program set         Sub Function           (Program set)         Sub Function         Time 01 + 03 + 05 + 07 + 09 + 11 + 13 + 15 + 17 + 19 + 21 + 23 + 23 + 23 + 23 + 23 + 23 + 23
Operating Ins	2 Press the ' Week' ' button. Press button repeatedly until desired mode appears. Week
anance	For example, if you want Thu, press dutton 4 times.
Troubleshooting Tips T Care and Maintenance Operating Instructions Safety Precautions	3 Select the time you want. Press how or means that how o's how on the blinking letter is shown. If you press server button, then 's hape appears. '' shape means that five o'clock is reserved. Using below buttons, you can reserve time. * For example, the air-conditioner is on 6,7,8 and 13-22 o'clock. (PERATION SETTEMP FRANSPEED SUBFRACTION The direct of the direct
<u> </u>	8

## Holiday Setting

If Tuesday is a holiday in this week, you may set a holiday.



## Timer Setting

If you want to turn it 'ON' during 'OFF' mode or turn it 'OFF' during 'ON' mode, you can use timer setting function.



2

Press the Timer button.



Press  $\dot{O}_{Hour}$  or  $\dot{O}_{Min}$  button, then you can control the desired time.

If you press  $\bigcirc$  button, the display panel shows (ex :  $\frac{1}{01 + 03}$ ).



It means 3 hours later, it will stop while 'ON' mode, it will operate while 'OFF' mode.

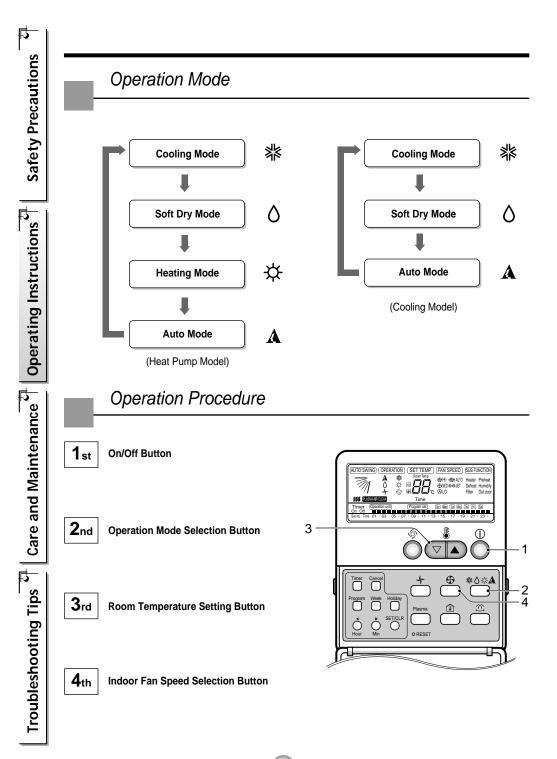


If you want to cancel the timer setting function, press the Cancel button.



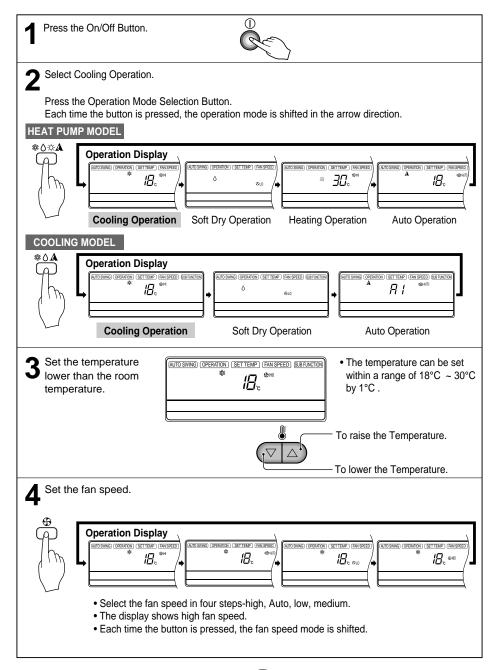
## Self-diagnosis Function

'CH' will flash in the remote controller display when a problem occurs. Then please contact your dealer.



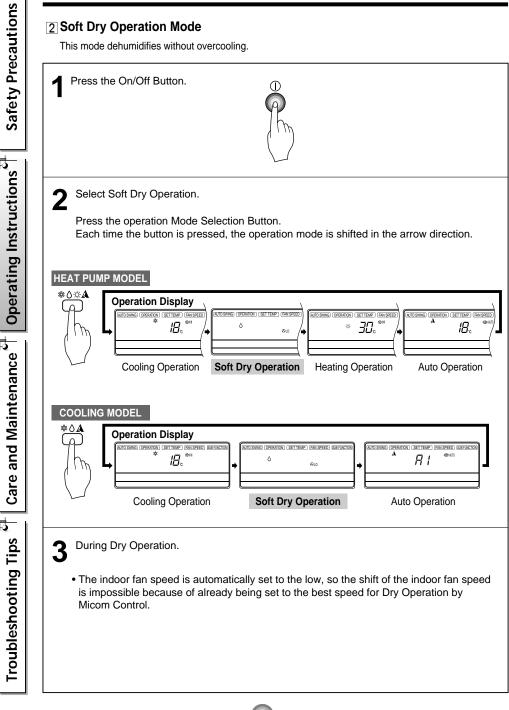
ENGLISH

### Cooling Operation Mode



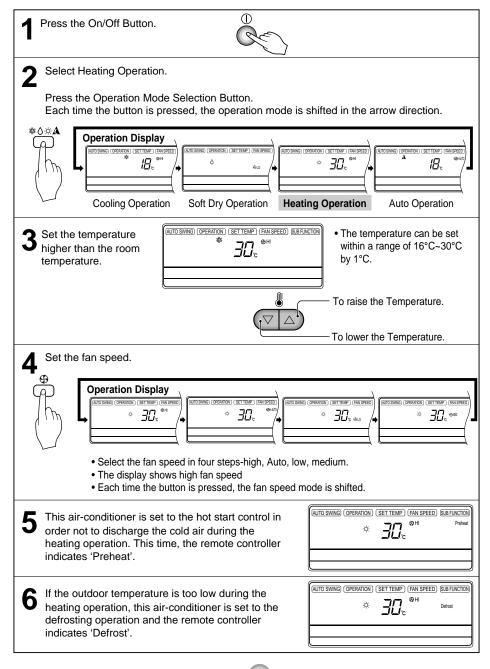


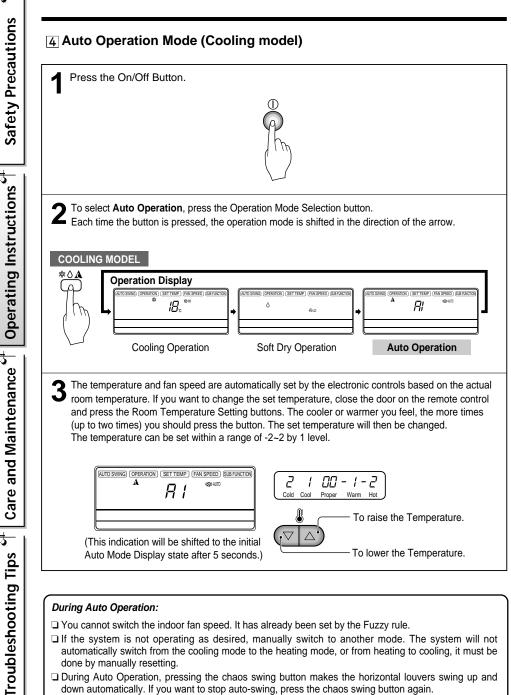
This mode dehumidifies without overcooling.



ENGLISH

### **3** Heating Operation Mode (Heat pump model only)





- automatically switch from the cooling mode to the heating mode, or from heating to cooling, it must be done by manually resetting.
- During Auto Operation, pressing the chaos swing button makes the horizontal louvers swing up and down automatically. If you want to stop auto-swing, press the chaos swing button again.

ENGLISH

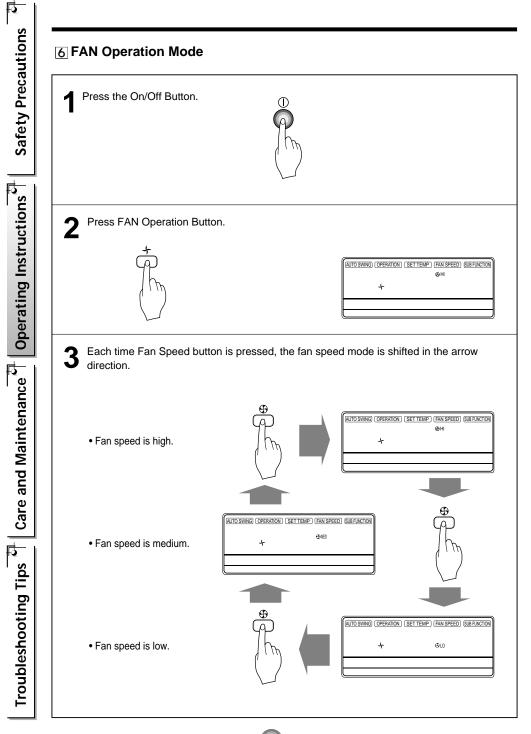
### **5** Auto Operation Mode (Heat pump model)

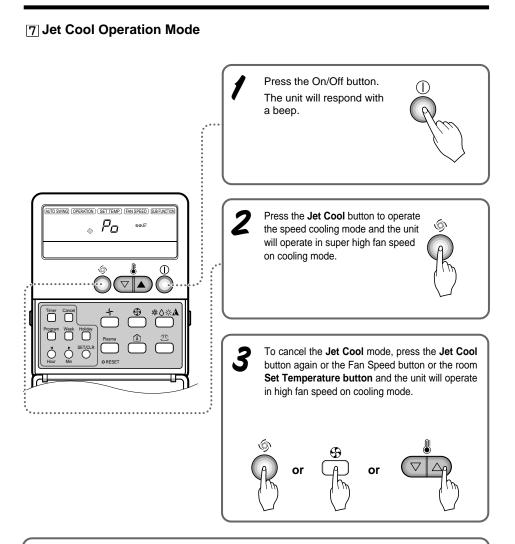
Press the On/Off Button.
Chr.
<b>2</b> To select <b>Auto Operation</b> , press the Operation Mode Selection button.
Each time the button is pressed, the operation mode is shifted in the direction of the arrow.
HEAT PUMP MODEL
* Operation Display
3 The setting temperature can be changed, when the set temperature button is pressed.
To raise the Temperature.
To lower the Temperature.

### During Auto Operation:

□ You can switch the indoor fan speed.

□ The system will automatically switch from the cooling mode to the heating mode, or from heating to cooling, when you select Auto Opration mode.

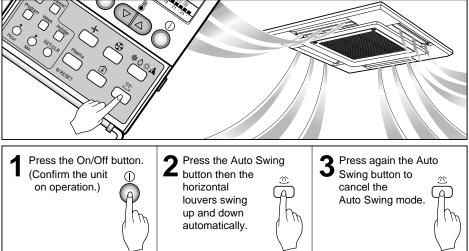




### NOTE:

- During the Jet Cool function at any moment, the A/C starts to blow the cool air at extremely high speed setting the room temp. automatically to 18°C. It is especially used to cool the room temp. in the shortest time in a hot summer. In heating mode however, the Jet Cool function is not available.
- □ In order to return to the normal cooling mode from the Jet Cool mode, you just press either the operation mode selection button, airflow volume selection or temp. setting button or the Jet Cool button again.





### 9 Child Lock Function

This is the Function that any children cannot used to the air-conditioner.

### **Operation procedure**

### / To set the Child-Lock Function

Press the Timer button and Minute Set button for three seconds. Then the operation mode shift to child lock mode and it is displayed ' CL ' in the operation display.

When you press any button in this time, the remote controller is not converted to any selected mode and the

' CL ' is displayed in the remote controller for about three seconds. But the Room Temperature function is operated in spite of child lock mode.

### 2 To cancel the Child-Lock Function

Press the Timer button and Minute Set button for three seconds. Then the child-lock mode is cancelled and the preselected mode is displayed in the remote controller.

# 

### Helpful information

Fan speed and cooling capacity.

The cooling capacity indicated in the specification is the value when the fan speed is set to high, and the capacity will be lower at low or medium fan speed.

High fan speed is recommended when you wish to cool the room quickly.





Operating Instructions

**Safety Precautions** 

### **IO** Forced Operation

Operation procedures when the remote control can't be used. Press the tact switch (Forced operation) for 2 seconds. If you want to stop operation, press again the tact switch. In case the power comes on again after power failure on the Forced Operation mode, the operating conditions are automatically set as follows:

During Forced Operation, the initial mode continues.

	Cooling Model	Heat pu	mp Model
	Cooling Model	Room Temp. ≥ set Temp2°C	Room Temp. < set Temp2°C
Operating mode	Cooling	Cooling	Heating
Indoor FAN Speed	High	set available	set available
Setting Temperature	22°C	set available	set available

Forced operation

(Tact switch)

Ռո

### **II** Auto Restart Function

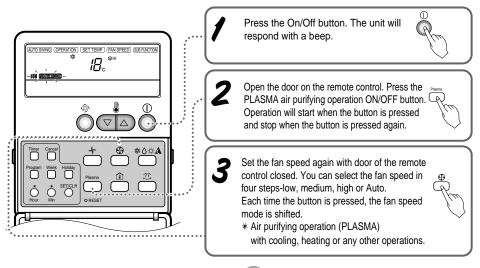
In case the power comes on again after a power failure, Auto Restarting Operation is the function to operate procedures automatically to the previous operating conditions.

### 12 Tips for Filter sign LED

- Filter sign lamp (LED) is ON.
- 2 If LED indicating filter sign lamp is ON, clean the filter.
- 3 After cleaning the filter, press the Timer button and ◀ button of wired remote controller at the same time for 3 sec.

Then filter sign LED is OFF.

### **[3] PLASMA Purification Operation (Optional)**



# Care and maintenance of the air conditioner

## Indoor Unit

### Grille, Case and Remote Control

Turn the system off before cleanining, To clean, wipe with a soft, dry cloth. Do not use bleach or abrasives.

### NOTE:

Supply power must be disconnected before cleaning the indoor unit.

## Air Filters

The air filters behind the front grille should be checked and cleaned once every 2 weeks or more often if neccessary.



Never use any of the followings:

- Water hotter than 40°C. Could cause deformation and/or discoloration.
- Volatile substances. Could damage the surfaces of the air conditioner.

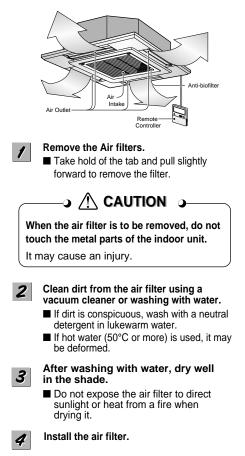


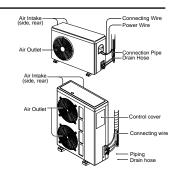
## Outdoor Unit

The heat exchanger coils and panel vents of the outdoor unit should be checked regularly. If clogged with dirt or soot, the heat exchanger and panel vents may be professionally steam cleaned.

### NOTE:

Dirty or clogged coils will reduce the operating efficiency of the system and cause higher operating costs.

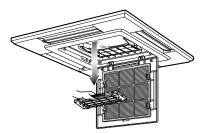




## Purifying filter(For 2HL Model only)

### Cleaning

The PLASMA filter behind the air filters should be checked and cleaned once every 3 months or more often if necessary.



### Replacement

· Recomended use period : About 2 years



Open front panel and remove air filter.





Remove air purifying filter.

S Insert new air purifying filter.

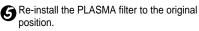
- After removing the air filters, pull slightly forward to remove the PLASMA filter.
- Dip the PLASMA filter into the water mixed with neutral detergent, for 20~30 minutes.



Ory the PLASMA filter in the shade for a day (Especially, the humidity must be removed perfectly on this parts).

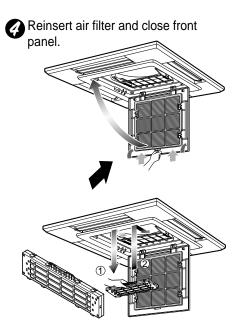


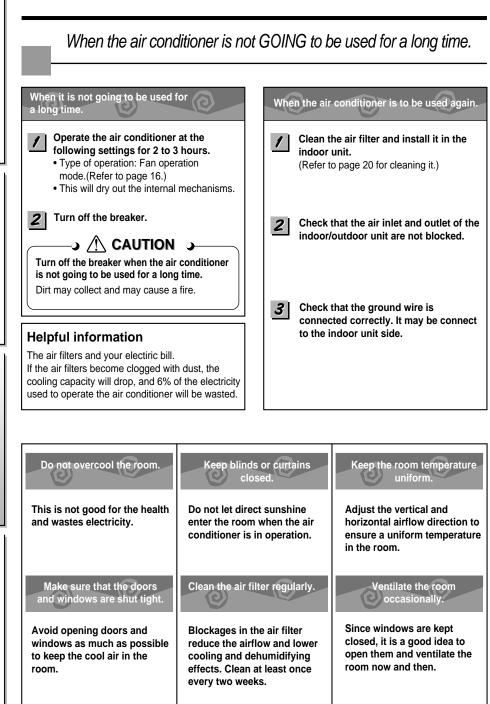
A Note the cuts of electric discharge lines.





Don't touch this PLASMA Filter within 10 seconds after opening the inlet grille, it may cause an electric shock.





Safety Precautions

Troubleshooting Tips []+ Care and Maintenance []+ Operating Instructions []+

## Before you call for service...



## Troubleshooting Tips! Save time and money!

Check the following points before requesting repairs or service.... If the malfunction persist, please contact your dealer.

The air conditioner does not operate.	The room has a peculiar odor.	It seems that condensation is leaking from the air conditioner.	Air conditioner does not operate for about 3 minutes when restart.
<ul> <li>Have you made a mistake in timer operation?</li> <li>Has the fuse blown or has the circuit breaker been tripped?</li> </ul>	• Check that this is not a damp smell exuded by the walls, carpet, furniture or cloth items in the room.	Condensation occurs when the airflow from the air conditioner cools the warm room air.	<ul> <li>This is the protector of the mechanism.</li> <li>Wait about three minutes and operation will begin.</li> </ul>
Does not cool or heat effectively.	The air conditioner operation is noisy.	Crack sound is heard.	Remote control display is faint, or no display at all.
<ul> <li>Is the air filter dirty? See air filter cleaning instructions.</li> <li>The room may have been very hot when the room air conditioner was first turned on. Allow time for it to cool down.</li> <li>Has the temperature been set incorrectly?</li> <li>Are the indoor unit's air inlet or outlet vents obstructed?</li> </ul>	<ul> <li>For a noise that sounds like water flowing.</li> <li>This is the sound of freon flowing inside the air conditioner unit.</li> <li>For a noise that sounds like the compressed air releasing into atmosphere.</li> <li>This is the sound of the dehumidifying water being processed inside the air conditioning unit.</li> </ul>	<ul> <li>This sound is generated by the expansion/constrictio n of the front panel, etc. due to changes of temperature.</li> <li>Filter sign lamp (LED) is ON.</li> <li>Cleaning the filter, press the Timer button and</li></ul>	<ul> <li>Are the batteries depleted?</li> <li>Are the batteries inserted in the opposite (+) and (-) directions?</li> </ul>

### NOTE

WATER RESISTANT: The outdoor side of this appliance is WATER RESISTANT. The indoor side is not water resistant and should not be exposed to excess water.