website http://www.lgservice.com

LG

ENGLISH

# LG Cassette-Type Air Conditioner

## *OWNER'S MANUAL*

**Prior to installation, this air-conditioning unit must be submitted for approval by the utility service which provides electricity (EN 61000-2, EN 61000-3 Norm).**

**IMPORTANT**

- **Please read this owner's manual carefully and thoroughly before installing and operating your room air conditioner.**
- **Please retain this owner's manual for future reference after reading it thoroughly.**

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## FOR YOUR RECORDS

Write the model and serial numbers here:

**Model #**

**Serial #**

You can find them on a label on the side of each unit.

**Dealer's Name**

**Date Purchased**

■ Staple your receipt to this page in the event you need it to prove date of purchase or for warranty issues.

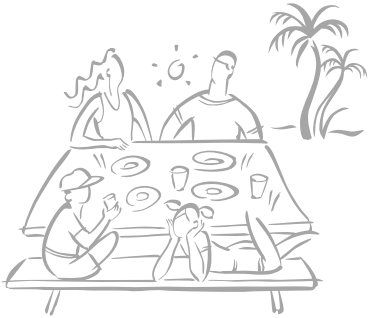
## READ THIS MANUAL

Inside you will find many helpful hints on how to use and maintain your air conditioner properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your air conditioner.

You'll find many answers to common problems in the chart of troubleshooting tips. If you review our chart of **Troubleshooting Tips** first, you may not need to call for service at all.

## PRECAUTION

- **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 invalids without supervision.**
- **Young children should be supervised to ensure that they do not play with the air conditioner.**
- **When the power cord is to be replaced, replacement work shall be performed by authorized personnel only using only genuine replacement parts.**
- **Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.**



# Safety Precautions



To prevent injury to the user or other people and property damage, the following instructions must be followed.

■ Incorrect operation due to ignoring instruction will cause harm or damage. The seriousness is classified by the following indications.

| | |
|---|---|
| ⚠WARNING | This symbol indicates the possibility of death or serious injury. |
| ⚠CAUTION | This symbol indicates the possibility of injury or damage. |

■ Meanings of symbols used in this manual are as shown below.

| | |
|---|---|
|  | **Be sure not to do.** |
|  | **Be sure to follow the instruction.** |

## ⚠WARNING

### ■ Installation

**Do not disassemble or repair the product.**

• Contact your dealer and service center.

**Always earth the product.**

• It will cause fire or electric shock.

**Do not handle the flamable gas or explosive materials near the product.**

• Otherwise, it may cause fire or failure of product.

**Do not install where flamable gas could leak.**

• Otherwise, it may cause esplosion or fire.

**Do not install the product on an defected installation stand.**

• Otherwise, It may cause injury or accident.

**Be cautious when unpack and install the product.**

• Sharp edges could cause injury.

**For installation, always contact the dealer or service center.**

• Otherwise, it may cause fire, electric shock, explosion or injury.

**Do not install the product on an defected installation stand.**

• Otherwise, It may cause injury or accident.

**For electric work, contact the dealer or service center.**

• It will cause fire or electric shock.

**Do not use damaged power cable.**

• It will cause fire or electric shock.

**Always intstall an circuit breaker and main breaker.**

• No installation may cause fire and electric shock.

## ■ Operation

**Do not touch(operate) product with wet hands.**

• Otherwise, it may cause fire or electric shock.

**If strange sounds, or small or smoke comes from product. Turn the breaker off or disconnect the power supply cable.**

• Otherwise, it may cause electric shock or fire.

**Do not put the heater, etc. near the power cable.**

• Otherwise, it may cause fire and electric shock.

**Do not put water into electric part.**

• Otherwise, it may cause fire or failure of procuct, and electric shock.

**Ventilate well in using with a stove, etc.**

• Otherwise, an ozygen shortage may occur.

**When the product is not going to be used for a long time,disconnect the power supply plug or turn off the breaker.**

• Otherwise, it may cause failure of product or fire.

**Do not place heavy object on the power cable.**

• Otherwise, it may cause fire or electric shock.

**When the product is flooded, contact the service center.**

• Otherwise, it may cause fire or eletric shock.

**Cover the electric part.**

• Otherwise, it may cause fire or electric shock.

**Do not turn the breaker on/off or connect/disconnect the power supply plug during operation.**

• Otherwise, it may cause fire or electric shock.

**Do not open the suction inlet of the product during operation.**

• Otherwise, it may cause electric shock or failure.

**Do not touch the metal parts of the product when removing the air filter.**

• Otherwise, it may cause personal injury.

**Be cautious that children could not step on the product.**

• Otherwise, children may be seriously injured.

**Do not step or put anyting on the product.**

• Otherwise, it may cause personal injury and failure of product.

**Take care to ensure that water could not enter into the product.**

• Otherwise, it may cause fire or electric shock.

## ⚠CAUTION

## ■ Installation

**Always inspect gas leakage after installation and repair of product.**

• Otherwise, it may cause failure of product.

**Install the drain hose to ensure that drain can be securely done.**

• Otherwise, it may cause water leakage.

**Do not carry the product by oneself.**

• Otherwise it may harm to your health.

**Keep the level even in installing the product.**

• Otherwise, it may cause vibration or water leakage.

**Install the product so that noise or hot wind from the outdoor unit. May not give any damage to the neighborhoods.**

• Otherwise, it may cause dispute with the neighborhoods.

## ■ Operation

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

• Otherwise, it may harm to your health.

**When flamable gas leakages from the product, open the window for ventilation.**

• Otherwise, it may cause explosion or fire.

**Turn the main power off when cleaning the product.**

• Otherwise, it may cause fire and electric shock.

**Do not put a pet or houseplant where it will be exposed to direct air flow.**

• This could injure the pet or plant.

**Do not use the product for special purpose to preserve animals, vegetables, precision device, or art objects, etc.**

• Otherwise, it may cause loss of property.

**Stop operation and close the window in strom or hurricane.**

• Otherwise, it may cause failure of product or electric shock.

**Do not place obstacles aroud the flow inlet or outlet.**

• Othewise, it may cause failure of product.

**Always insert the filter securly.**
**Clean it once every two weeks.**

• Otherwise, it may cause failure of the product.

**Use a soft cloth to clean, Do not use wax, tinner or a strong detergent, etc.**

• Otherwise, it may change the apperance of the product.

**Do not drink water drained from the product.**

• Otherwise, it may harm to your health.

**Do not insert your hand or bars, etc. into the air inlet/outlet.**

• Otherwise, it may cause personal injury.

**Do not use the product at the closed space for a long time.**

• Otherwise, it may cause suffocation due to poor oxygen.

**Do not operate the product for a long time in high humidity, and leave a door or window open.**

• Otherwise, water may drop and wet or damage furniture, etc.

**Do not step onto an unstable bench when maintaining the product, etc.**

• Otherwise, it may cause personal injury.

**Replace the 2 batteries with new ones of same type.**

**Do not charge or disassemble the batteries and do not throw them into a fire.**

• Otherwise, it may cause fire or an explosion.

**If liquid from the batteries gets onto your skin or clothes, wash it well with clean water.**

• Otherwise it may harm to your health.

**Use a rated fuse.**

• Otherwise, It will cause fire or electric shock.

# Prior to Operation

## Preparing for operation

1. Contact an installation specialist for installation.
2. Plug in the power plug properly.
3. Use a dedicated circuit.
4. Do not use an extension cord.
5. Do not start/stop operation by plugging/unplugging the power cord.
6. If the cord/plug is damaged, replace it with only an authorized replacement part.

## Usage

1. Being exposed to direct airflow for an extended period of time could be hazardous to your health. Do not expose occupants, pets, or plants to direct airflow for extended periods of time.
2. Due to the possibility of oxygen deficiency, ventilate the room when used together with stoves or other heating devices.
3. Do not use this air conditioner for non-specified special purposes (e.g. preserving precision devices, food, pets, plants, and art objects). Such usage could damage the items.

## Cleaning and maintenance

1. Do not touch the metal parts of the unit when removing the filter. Injuries can occur when handling sharp metal edges.
2. Do not use water to clean inside the air conditioner. Exposure to water can destroy the insulation, leading to possible electric shock.
3. When cleaning the unit, first make sure that the power and breaker are turned off. The fan rotates at a very high speed during operation. There is a possibility of injury if the unit's power is accidentally triggered on while cleaning inner parts of the unit.

## Service

For repair and maintenance, contact your authorized service dealer.

# Introduction



## Symbols used in this Manual

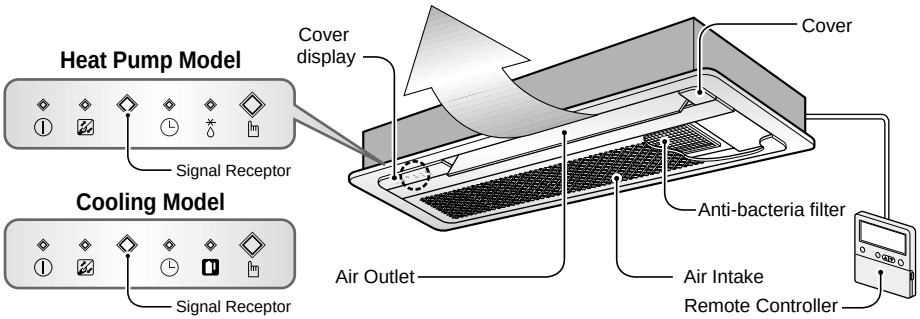
**This symbol alerts you to the risk of electric shock.**

**This symbol alerts you to hazards that could cause harm to the air conditioner.**

**NOTICE** **This symbol indicates special notes.**

## Features

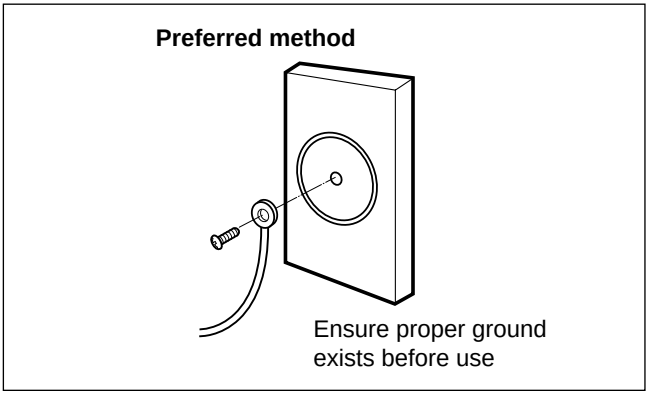
**WARNING: This appliance should be installed in accordance with national wiring regulations. This guide acts as a guide to help to explain product features.**



# Electrical Safety

**WARNING: This appliance must be properly grounded.**

To minimize the risk of electric shock, you must alway plug into a grounded oulet.




**WARNING: Do not cut or remove the grounding prong from the power wire.**

**WARNING: Attaching the adapter ground terminal to the wall receptacle cover screw does not ground the appliance unless the cover screw is metal and not insulated, and the wall receptacle is grounded through the house wiring.**

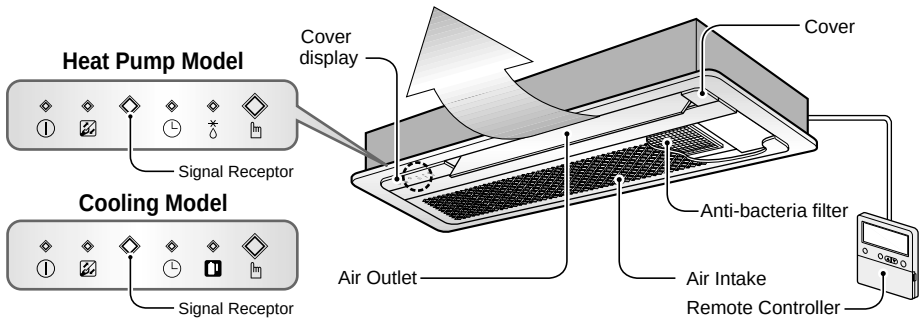
**WARNING: If you have any doubt whether the air conditioner is properly grounded, have the wall receptacle and circuit checked by a qualified electrician.**

# Operating Instructions

## *Indoor Unit, Outdoor Unit*



### Indoor Unit



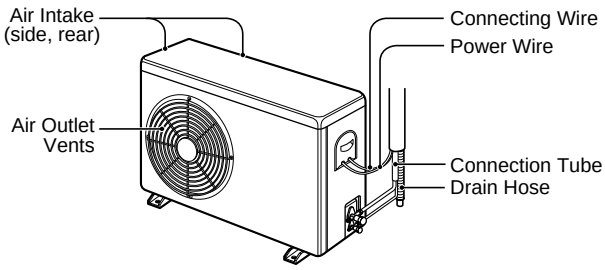

**Signal Receptor**

Receives the signals from the remote control.
(Signal receiving sound: two short beeps or one long beep.)

**Operation Indication Lamps**

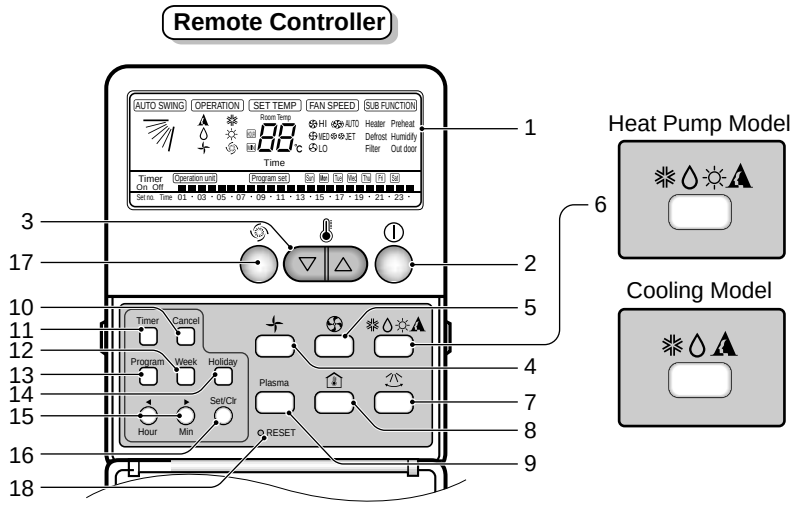
| | | |
|---|---|---|
| ⏻ | On/Off | : Lights up during the system operation. |
| ▨ | Filter Sign | : Lights up after 2400 hours from the time of first operating unit. (Refer to page 23.) |
| 🕒 | Timer | : Lights up during Timer operation. |
| ❄ | Defrost Mode | : Lights up during Defrost Mode or Hot Start operation. (Heat pump model only) |
| ▣ | Outdoor Unit Operation | : Lights up during outdoor unit operation. (Cooling model only) |
| ☝ | 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**

## Name and Function of Remote Controller




**1. Operation display**
Displays the operation conditions.

**2. On/Off Button**
Operation starts when this button is pressed, and stops when the button is pressed again.

**3. Set Temperature Button**
Used to set the temperature when the desired temperature is obtained.

**4. FAN Operation Button**
Used to circulate room air without cooling or heating.

**5. Fan Speed & Jet Cool Button**
Used to set the desired fan speed and select Jet cool mode.

**6. Operation Mode Selection Button**
Used to select the operation mode.
- Cooling Operation Mode
- Soft Dry Operation Mode
- Heating Operation Mode(except cooling model)
- Auto Operation Mode

**7. Auto Swing Button**
Used to swing up and down.

**8. Room Temperature Checking Button**
Used to check the room temperature.

**9. Plasma Air Clean Button (optional)**

**10. Timer Cancel Button**
Used to cancel the timer.

**11. Timer Set Button**
Used to set the timer when the desired time is obtained.

**12. Week Button**
Used to set a day of the week.

**13. Program Button**
Used to set the weekly timer.

**14. Holiday Button**
Used to set a holiday of the week.

**15. Time Set Button**
Used to set the time of the day and change the time in the weekly timer Function.

**16. Set and Clear Button**
Used to set and clear the weekly timer.

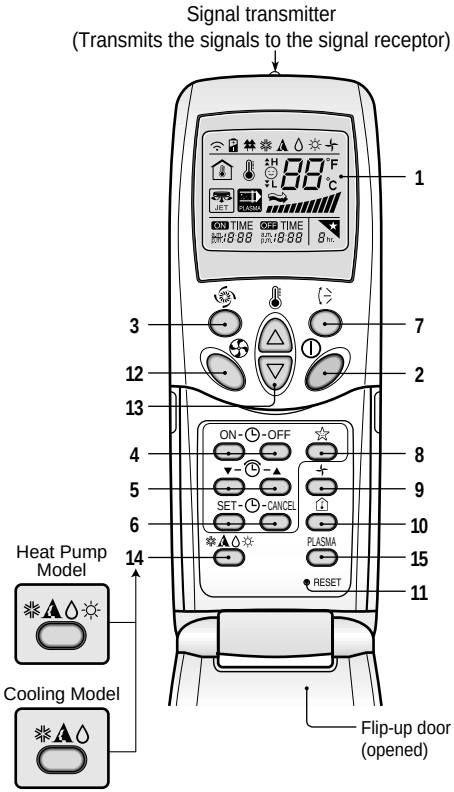
**17. Jet Cool Button**
Used to select jet cool mode.

**18. Reset Button**
Used to set the current time and clear the setting time.

❋ Display temperature can be different from actual room temperature if the remote controller is installed at the place where sun-rays are falling directly or the place nearby heat source.

## 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**
   Displays the operation conditions.
2. **ON/OFF BUTTON**
   Operation starts when this button is pressed and stops when the button is pressed again.
3. **JET COOL BUTTON**
   Used to select jet cool mode.
4. **ON/OFF TIMER BUTTONS**
   Used to set the time of starting and stopping operation.
5. **TIME SETTING BUTTONS**
   Used to adjust the time.
6. **TIMER SET/CANCEL BUTTONS**
   Used to set the timer when the desired time is obtained and to cancel the Timer operation.
7. **AUTO SWING BUTTON**
   Used to swing up and down.
8. **SLEEP MODE BUTTON**
   Used to set Sleep Mode operation.
9. **AIR CIRCULATION BUTTON**
   Used to circulate the room air without cooling or heating (turns indoor fan on/off).
10. **ROOM TEMPERATURE CHECKING BUTTON**
    Used to check the room temperature.
11. **RESET BUTTON**
    Used prior to resetting time or after replacing batteries.
12. **INDOOR FAN SPEED SELECTOR**
    Used to select fan speed in four steps-low, medium, high, or auto.
13. **ROOM TEMPERATURE SETTING BUTTONS**
    Used to select the room temperature.
14. **OPERATION MODE SELECTION BUTTON**
    Used to select the operation mode.
15. **PLASMA AIR CLEAN BUTTON(OPTIONAL)**

✵ The wireless remote controller do not operate the swirl mode.

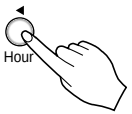
### CAUTION of handling the wireless remote controller

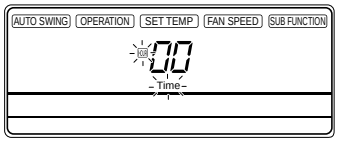
- Aim at the signal receptor on the air conditioner so as to operate.
- The remote control signal can be received at a distance of up to about 7m.
- Be sure that there are no obstructions between the remote controller and the signal receptor.
- Do not drop or throw the remote controller.
- Do not place 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)

## Set the Current Time and a day of the Week

**1** Press the ' Hour ' button.

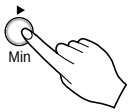
Each time the button is pressed, the number is changed from **00** to **23**.
You can set the number of the current hour.

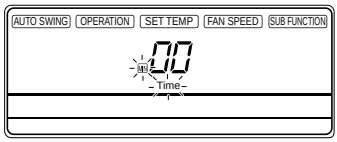



**2** Press the ' Min ' button.

Each time the button is pressed, the number is increased from **00** to **59**.
You can set the number of the current minute.

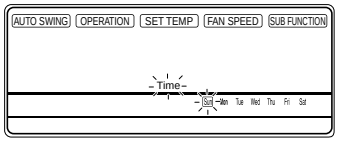



**3** Press ' Week ' button.

Each time the button is pressed, a day of the week is shifted from sunday to saturday.
You can set the day of the week.

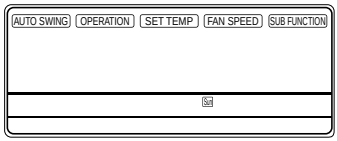



**4** Press the ' RESET ' button.

If you want to reset the current time and a day of the week, click the Reset button.



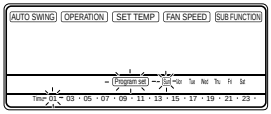



# Weekly Program Setting



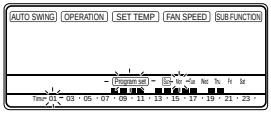
**1** Press the Program button.
The remote controller is displayed like below. Then ' Program set ', ' Sun ' and '01' is blinked.



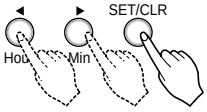




**2** Press the ' Week ' button.
Select the Monday.

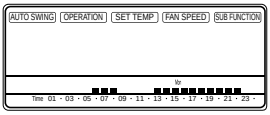



**3** Change the timer setting until the desired time is set.
After you select a time, push the SET/CLR button once or one more time.



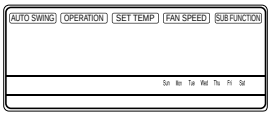

For Example if the air-conditioner is turned on from 6 to 8 and from 13 to 22 and turned off at other time monday, display is as follows. (black bar indicates turn-on, white bar indicates turn-off.)
If you follow the above procedure, you can set timer for turning or and off in all of the week.



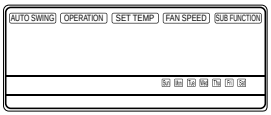

**4** If you don't set the weekly program again after setting the weekly program, it is same the previous setting. If you want to keep the weekly program for only a week follow the next procedure.

1) Press the "CANCEL" button and "SET/CLR" button simultaneously. Then the display will be toggled like befor.

Ⓐ (default)



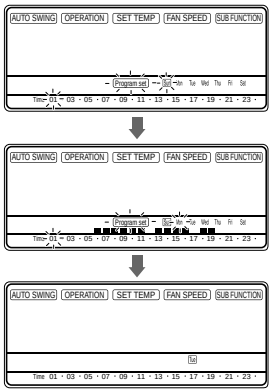

Ⓑ




2) Detach your finger from buttons at the moment that it is displayed the Ⓑ figure.
Then the weekly program is kept for only one week.

## Holiday Setting

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




1 Press the Program button.




2 Press the Week button.
Select the Tuesday.




3 Press the Holiday button.




Then the remote controller will be displayed ' Tue '.
The outside rectangular means holiday.

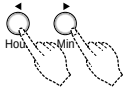
❋ You cannot set the weekly program for a holiday.

## Timer Setting (Delay start/Pre-set stop)

This function is used to turn on or turn off after several hours.

1 Press the Timer button
to turn Timer on or off.



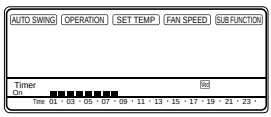




2 Change the timer setting until the desired time is set.

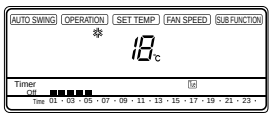
3 If you want to cancel the timer setting, press the Cancel button.




• When the air conditioner is turned off, the air conditioner is turned on after 8 hours.



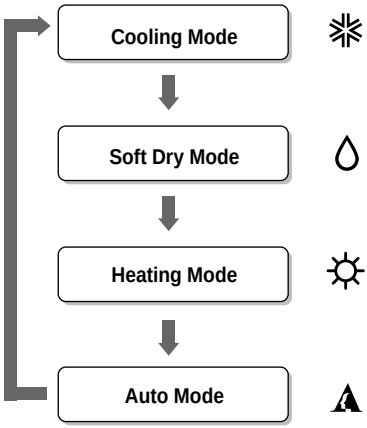

• When the air conditioner is turned on, the air conditioner is turned off after 5 hours.



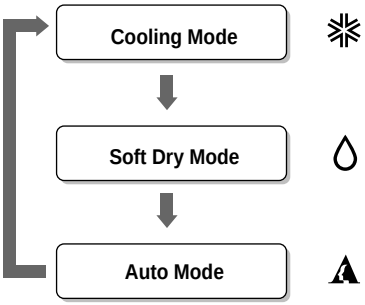

## Self-diagnosis Function

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

## Operation Mode




(Heat Pump Model)




(Cooling Model)

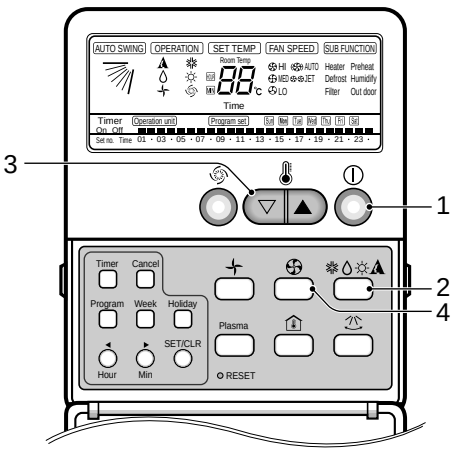
## Operation Procedure

**1st** **On/Off Button**

**2nd** **Operation Mode Selection Button**

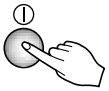
**3rd** **Room Temperature Setting Button**

**4th** **Indoor Fan Speed Selection Button**



# Cooling Operation Mode

**1** Press the On/Off Button.

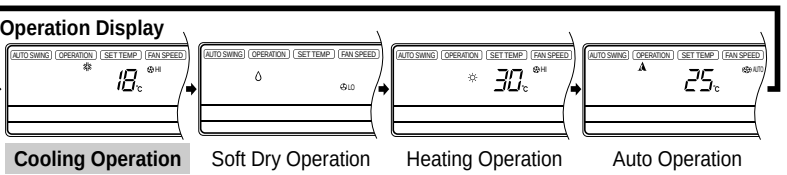


**2** Select Cooling Operation.

Press the Operation Mode Selection Button.
Each time the button is pressed, the operation mode is shifted in the arrow direction.

**HEAT PUMP MODEL**

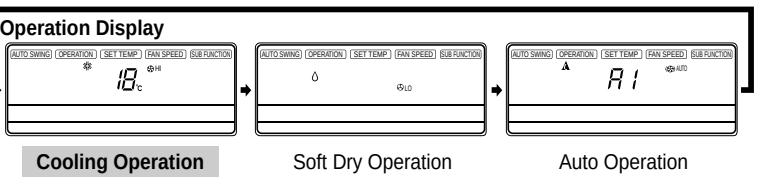





**Cooling Operation** Soft Dry Operation Heating Operation Auto Operation

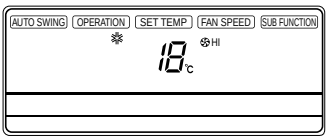
**COOLING MODEL**



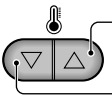



**Cooling Operation** Soft Dry Operation Auto Operation

**3** Set the temperature lower than the room temperature.




- The temperature can be set within a range of 18°C ~ 30°C by 1°C .



To increase the Temperature.

To decrease the Temperature.

**4** Set the fan speed.






- Select the fan speed in five steps-high, auto, power jet, low, medium.
- The display shows high fan speed.
- Each time the button is pressed, the fan speed mode is shifted.

※ During Cooling operation, pressing the fan speed button can be changed Jet Cool operation mode.(Refer to p19.)

## Soft Dry Operation Mode

This mode dehumidifies without overcooling.

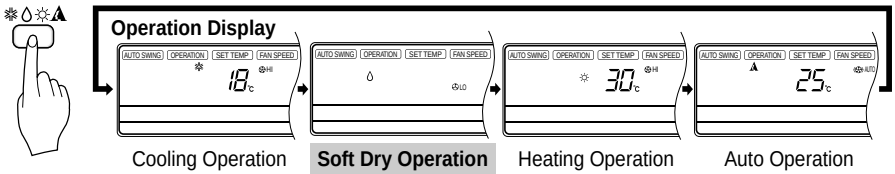
**1** Press the On/Off Button.



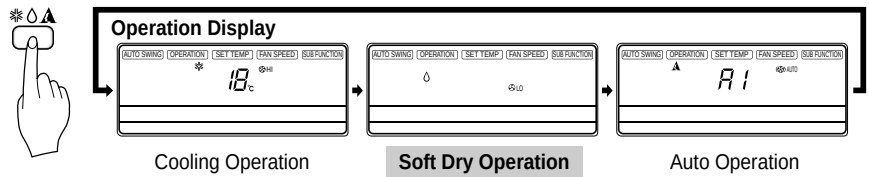
**2** Select Soft Dry Operation.

Press the operation Mode Selection Button.
Each time the button is pressed, the operation mode is shifted in the arrow direction.

**HEAT PUMP MODEL**




**COOLING MODEL**

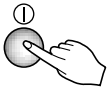



**3** During Dry Operation.

- The indoor fan speed is automatically set to the low, so the shift of the indoor fan speed is impossible because of already being set to the best speed for Dry Operation by Micom Control.

## Heating Operation Mode (Heat pump model only)

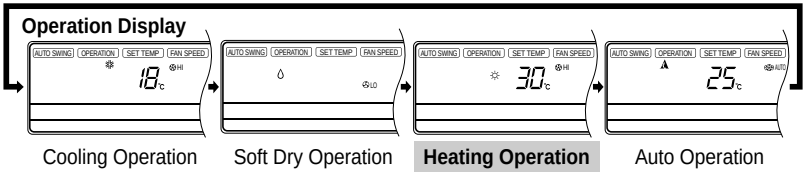
**1** Press the On/Off Button.



**2** Select Heating Operation.

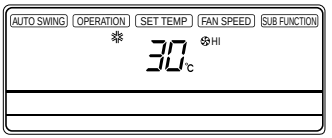
Press the Operation Mode Selection Button.
Each time the button is pressed, the operation mode is shifted in the arrow direction.



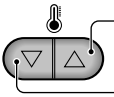



Cooling Operation | Soft Dry Operation | **Heating Operation** | Auto Operation

**3** Set the temperature higher than the room temperature.




- The temperature can be set within a range of 16°C~30°C by 1°C.

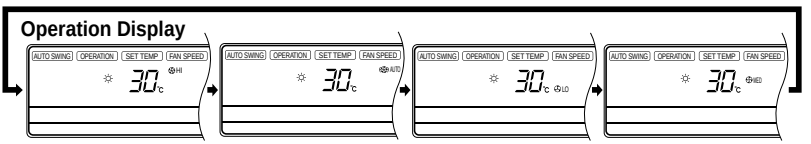


To increase the Temperature.

To decrease the Temperature.

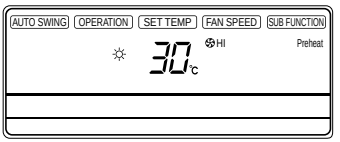
**4** Set the fan speed.



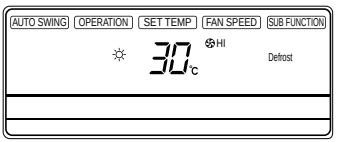



- Select the fan speed in four steps-high, Auto, low, medium.
- The display shows high fan speed
- Each time the button is pressed, the fan speed mode is shifted.

**5** This air-conditioner is set to the hot start control in order not to discharge the cold air during the heating operation. This time, the remote controller indicates 'Preheat'.




**6** If the outdoor temperature is too low during the heating operation, this air-conditioner is set to the defrosting operation and the remote controller indicates 'Defrost'.



## Auto Operation Mode (Cooling model)

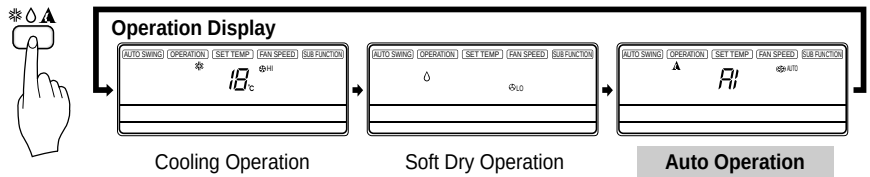


**1** Press the On/Off Button.

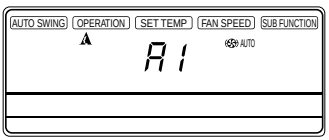


**2** To select **Auto Operation**, press the Operation Mode Selection button.
Each time the button is pressed, the operation mode is shifted in the direction of the arrow.

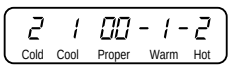
**COOLING MODEL**

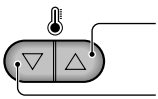



**3** The temperature and fan speed are automatically set by the electronic controls based on the actual room temperature. If you want to change the set temperature, close the door on the remote control and press the Room Temperature Setting buttons. The cooler or warmer you feel, the more times (up to two times) you should press the button. The set temperature will then be changed.
The temperature can be set within a range of -2~2 by 1 level.




(This indication will be shifted to the initial Auto Mode Display state after 5 seconds.)




***During Auto Operation:***

- ❏ You cannot switch the indoor fan speed. It has already been set by the Fuzzy rule.
- ❏ If the system is not operating as desired, manually switch to another mode. The system will not 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 auto swing button makes the horizontal louvers swing up and down automatically. If you want to stop auto-swing, press the auto swing button again.

## Auto Operation Mode (Heat pump model)

**1** Press the On/Off Button.

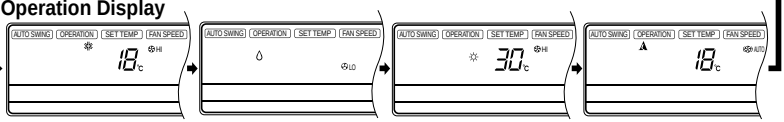


**2** To select **Auto Operation**, press the Operation Mode Selection button.
Each time the button is pressed, the operation mode is shifted in the direction of the arrow.

**HEAT PUMP MODEL**

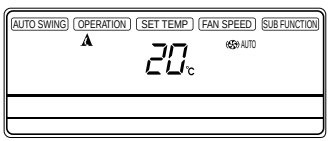


**Operation Display**

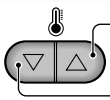



Cooling Operation | Soft Dry Operation | Heating Operation | **Auto Operation**

**3** The setting temperature can be changed, when the set temperature button is pressed.




- The temperature can be set within a range of 18°C~30°C with increment/decrement of 1°C.



To increase the Temperature.

To decrease 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 Operation mode.

## FAN Operation Mode

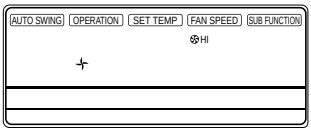
• Used to circulate room air without cooling or heating.

**1** Press the On/Off Button.



**2** Press FAN Operation Button.





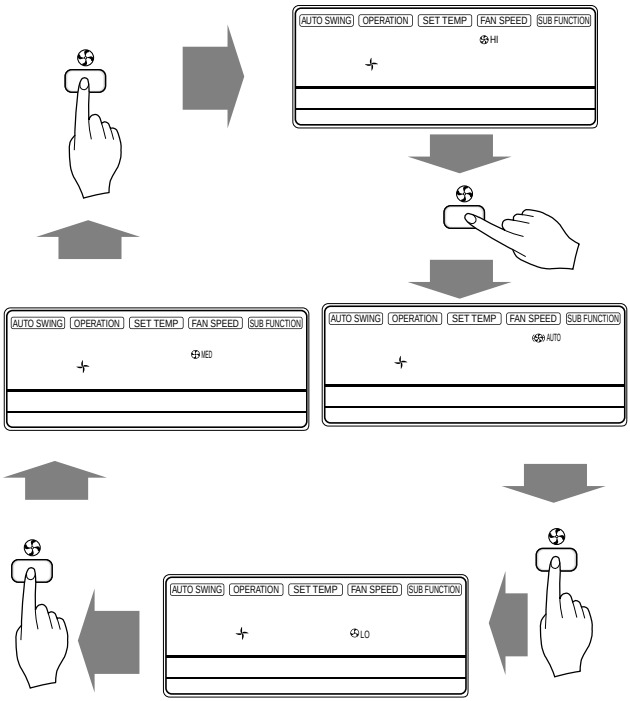

**3** Each time Fan Speed button is pressed, the fan speed mode is shifted in the arrow direction.

• Fan speed is Auto.

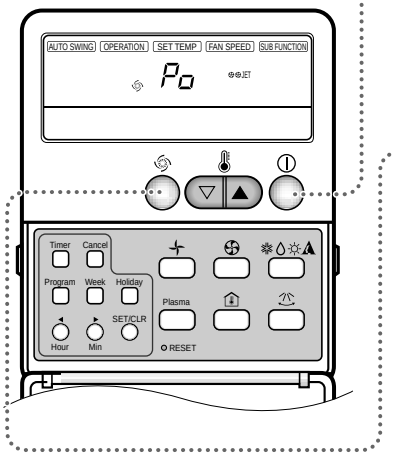
• Fan speed is high.

• Fan speed is medium.

• Fan speed is low.

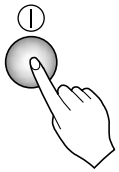


## Jet Cool Operation Mode




**1** Press the On/Off button.

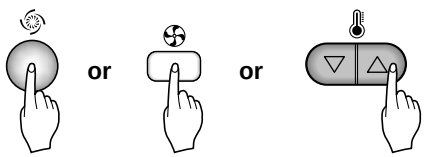
The unit will respond with a beep.



**2** Press the **Jet Cool** button to operate the speed cooling mode and the unit will operate in super high fan speed on cooling mode.



**3** To cancel the **Jet Cool** mode, press the **Jet Cool** button again or the Fan Speed button or the room **Set Temperature button** and the unit will operate in high fan speed on cooling mode.

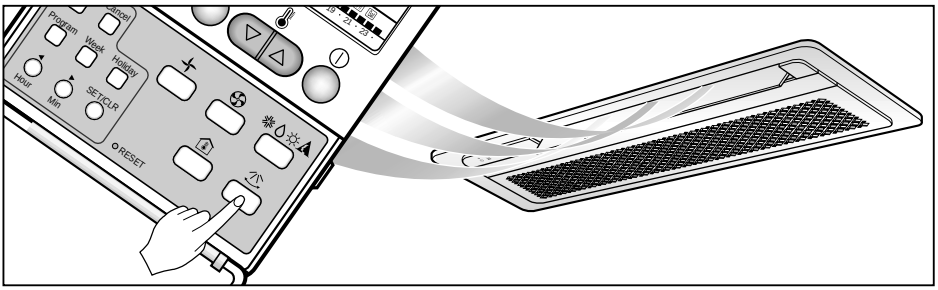



***NOTICE***

- ❑ *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, fan speed button or temperature setting button or fan operation button.*

## Auto Swing Mode




**1** Press the On/Off button. (Confirm the unit on operation.)



**2** Press the Auto Swing button then the horizontal louvers swing up and down automatically.



**3** Press again the Auto Swing button to cancel the Auto Swing mode.



## Child Lock Function

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

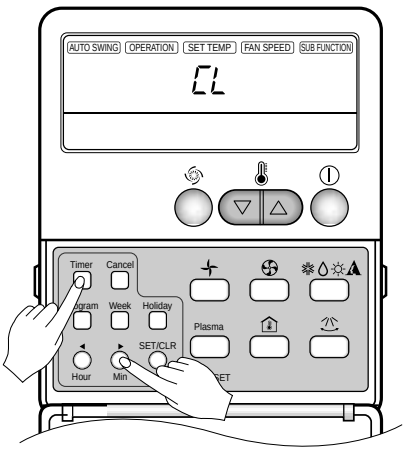
### *Operation procedure*

***1. To set the Child-Lock Function***

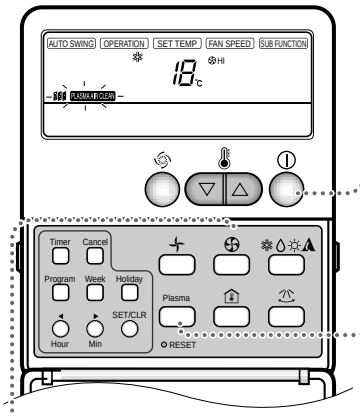
Press the Timer button and Minute Set button for three seconds. Then the operation mode shift to child lock mode and it is displayed ' **CL** ' in the operation display. When you press any button in this time, the remote controller is not converted to any selected mode and the ' **CL** ' is displayed 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***

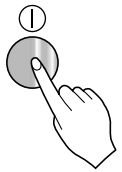
Press the Timer button and Minute Set button for three seconds. Then the child-lock mode is cancelled and the preselected mode is displayed in the remote controller.



## PLASMA Purification Operation (Optional)

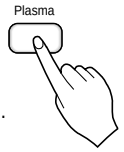



**1** Press the On/Off button. The unit will respond with a beep.



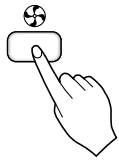
**2** Open the door on the remote control.
Press the PLASMA air purifying operation ON/OFF button.

Operation will start when the button is pressed and stop when the button is pressed again.




**3** Set the fan speed again with door of the remote control closed. You can select the fan speed in four steps-low, medium, high or Auto.
Each time the button is pressed, the fan speed mode is shifted.

✳ Air purifying operation (PLASMA) with cooling, heating or any other operations.

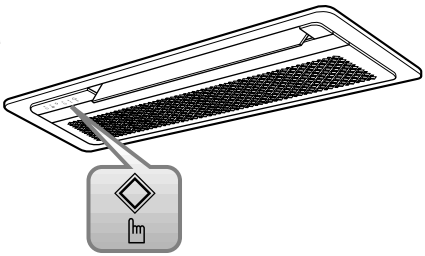


### *Tips for Filter sign LED*

1. 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.

## 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.



Forced operation
(Tact switch)

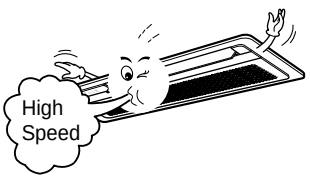
| | Cooling Model | Heat pump Model | |
|---|---|---|---|
| | | Room Temp. ≥ set Temp.-2°C | Room Temp. < set Temp.-2°C |
| Operating mode | Cooling | Cooling | Heating |
| Indoor FAN Speed | High | set available | set available |
| Setting Temperature | 22°C | set available | set available |

## 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.

### *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.



# Maintenance and Service

**CAUTION Before performing any maintenance, turn off the main power to the system.**

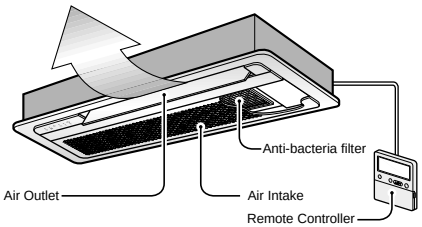
## Indoor Unit

### 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.

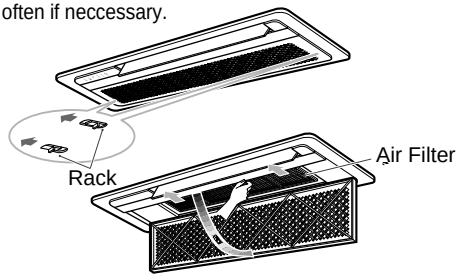
***NOTICE***

*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.




**1 Remove the Air filters.**
■ Take hold of the tab and pull slightly forward to remove the filter.

**CAUTION: When the air filter is to be removed, do not touch the metal parts of the indoor unit.**
It may cause an injury.

**2 Clean dirt from the air filter using a vacuum cleaner or washing with water.**
■ If dirt is conspicuous, wash with a neutral detergent in lukewarm water.
■ If hot water (50°C or more) is used, it may be deformed.

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

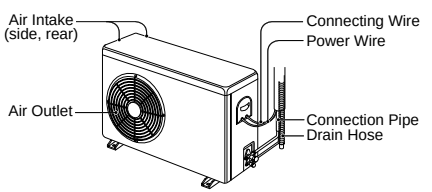
**4 Install the air filter.**

## 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.

***NOTICE***

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



## When the air conditioner is not going to be used for a long time.

### When air conditioner is not going to be used for a long time.

**1. Operate the air conditioner at the following settings for 2 to 3 hours.**

- Type of operation: Fan operation mode.(Refer to page 21.)
- This will dry out the internal mechanisms.

**2. Turn off the breaker.**

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

### Helpful information

The air filters and your electiric bill.
If the air filters become clogged with dust, the cooling capacity will drop, and 6% of the electricity used to operate the air conditioner will be wasted.

### When the air conditioner is to be used again.

**1. Clean the air filter and install it in the indoor unit.**
**(Refer to page 28 for cleaning it.)**

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

**3. Check that the ground wire is connected correctly. It may be connect to the indoor unit side.**

## Operation Tips

**Do not overcool the room.**

This is not good for your health and wastes electricity.

**Keep blinds or curtains closed.**

Do not let direct sunshine enter the room when the air conditioner is in operation.

**Keep the room temperature uniform.**

Adjust the vertical and horizontal airflow direction to ensure a uniform temperature in the room.

**Make sure that the doors and windows are shut tight.**

Avoid opening doors and windows as much as possible to keep the cool air in the room.

**Clean the air filter regularly.**

Blockages in the air filter reduce the airflow and lower cooling and dehumidifying effects. Clean at least once every two weeks.

**Ventilate the room occasionally.**

Since windows are kept closed, it is a good idea to open them and ventilate the room now and then.

## Troubleshooting Tips! Save time and money!

Check the following points before requesting repairs or service.... If the fault persists, please contact your dealer or service center.

| Case | Explanation | See page |
|---|---|---|
| ***The air conditioner does not operate.*** | • Have you made a mistake in timer operation? | 14 |
| | • Has the fuse blown or has the circuit breaker been tripped? | - |
| ***The room has a peculiar odor.*** | • Check that this is not a damp smell exuded by the walls, carpet, furniture, or cloth items in the room. | - |
| ***It seems that condensation is leaking from the air conditioner.*** | • Condensation occurs when the airflow from the air conditioner cools the warm room air. | - |
| ***Air conditioner does not operate for about 3 minutes when restarted.*** | • This is the protector of the mechanism.<br>• Wait about three minutes and operation will begin. | - |
| ***Does not cool or heat effectively.*** | • Is the air filter dirty? See air filter cleaning instructions. | 26 |
| | • The room may have been very hot when the room air conditioner was first turned on. Allow time for it to cool down. | |
| | • Has the temperature been set incorrectly? | 16, 18 |
| | • Are the indoor unit's air inlet or outlet vents obstructed? | - |
| ***The air conditioner operation is noisy.*** | • For a noise that sounds like water flowing.<br>-This is the sound of freon flowing inside the air conditioner unit.<br>• For a noise that sounds like the compressed air releasing into atmosphere.<br>-This is the sound of the dehumidifying water being processed inside the air conditioning unit. | - |
| ***Remote control display is faint, or no display at all.*** | • Are the batteries depleted?<br>• Are the batteries inserted in the opposite (+) and (-) directions? | - |
| ***Crack sound is heard.*** | • This sound is generated by the expansion/constriction of the front panel, etc. due to changes of temperature. | - |
| ***Filter sign lamp (LED) is ON.*** | • Cleaning the filter, press the Timer button and ◀ button of wired remote controller at the same time for 3 sec. | - |



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**After reading this manual, keep it in a place easily accessible to the user for future reference.**