



# OWNER'S MANUAL

# AIR CONDITIONER

Please read this manual carefully before operating your set and retain it for future reference.

TYPE: FLOOR STANDING

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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.

	<b>Be sure not to do.</b>
	<b>Be sure to follow the instruction.</b>

## ⚠ WARNING

### ■ Installation

**Do not use a defective or underrated circuit breaker. Use this appliance on a dedicated circuit.**

- There is risk of fire or electric shock.

**Install the panel and the cover of control box securely.**

- There is risk of fire or electric shock.

**Do not modify or extend the power cable.**

- There is risk of fire or electric shock.

**For installation, always contact the dealer or an Authorized Service Center.**

- There is risk of fire, electric shock, explosion, or injury.

**For electrical work, contact the dealer, seller, a qualified electrician, or an Authorized Service Center.**

- Do not disassemble or repair the product. There is risk of fire or electric shock.

**Always install a dedicated circuit and breaker.**

- Improper wiring or installation may cause fire or electric shock

**Do not install, remove, or re-install the unit by yourself (customer).**

- There is risk of fire, electric shock, explosion, or injury.

**Do not install the product on a defective installation stand.**

- It may cause injury, accident, or damage to the product.

**Always ground the product.**

- There is risk of fire or electric shock.

**Use the correctly rated breaker or fuse.**

- There is risk of fire or electric shock.

**Be cautious when unpacking and installing the product.**

- Sharp edges could cause injury. Be especially careful of the case edges and the fins on the condenser and evaporator.

**Be sure the installation area does not deteriorate with age.**

- If the base collapses, the air conditioner could fall with it, causing property damage, product failure, and personal injury.

## ■ Operation

**Do not let the air conditioner run for a long time when the humidity is very high and a door or a window is left open.**

- Moisture may condense and wet or damage furniture.

**Take care to ensure that power cable could not be pulled out or damaged during operation.**

- There is risk of fire or electric shock.

**Do not place anything on the power cable.**

- There is risk of fire or electric shock.

**Do not plug or unplug the power supply plug during operation.**

- There is risk of fire or electric shock.

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

- There is risk of fire or electrical shock.

**Do not place a heater or other appliances near the power cable.**

- There is risk of fire and electric shock.

**Do not allow water to run into electric parts.**

- It may cause There is risk of fire, failure of the product, or electric shock.

**Do not store or use flammable gas or combustibles near the product.**

- There is risk of fire or failure of product.

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

- Oxygen deficiency could occur.

**When flammable gas leaks, turn off the gas and open a window for ventilation before turn the product on.**

- Do not use the telephone or turn switches on or off.  
There is risk of explosion or fire

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

- There is risk of electric shock or fire.

**Stop operation and close the window in storm or hurricane. If possible, remove the product from the window before the hurricane arrives.**

- There is risk of property damage, failure of product, or electric shock.

**Do not open the inlet grill of the product during operation. (Do not touch the electrostatic filter, if the unit is so equipped.)**

- There is risk of physical injury, electric shock, or product failure.

**When the product is soaked (flooded or submerged), contact an Authorized Service Center.**

- There is risk of fire or electric shock.

**Be cautious that water could not enter the product.**

- There is risk of fire, electric shock, or product damage.

**Ventilate the product from time to time when operating it together with a stove, etc.**

- There is risk of fire or electric shock.

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

- There is risk of electric shock.

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

- There is risk of product damage or failure, or unintended operation.

**Take care to ensure that nobody could step on or fall onto the outdoor unit.**

- This could result in personal injury and product damage.

**CAUTION**

**■ Installation**

**Always check for gas (refrigerant) leakage after installation or repair of product.**

- Low refrigerant levels may cause failure of product.

**Install the drain hose to ensure that water is drained away properly.**

- A bad connection may cause water leakage.

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

- To avoid vibration or water leakage.

**Do not install the product where the noise or hot air from the outdoor unit could damage the neighborhoods.**

- It may cause a problem for your neighbors.

**Use two or more people to lift and transport the product.**

- Avoid personal injury.

**Do not install the product where it will be exposed to sea wind (salt spray) directly.**

- It may cause corrosion on the product. Corrosion, particularly on the condenser and evaporator fins, could cause product malfunction or inefficient operation.

**■ Operation**

**Do not expose the skin directly to cool air for long periods of time. (Don't sit in the draft.)**

- This could harm to your health.

**Do not use the product for special purposes, such as preserving foods, works of art, etc. It is a consumer air conditioner, not a precision refrigeration system.**

- There is risk of damage or loss of property.

**Do not block the inlet or outlet of air flow.**

- It may cause product failure.

**Use a soft cloth to clean. Do not use harsh detergents, solvents, etc.**

- There is risk of fire, electric shock, or damage to the plastic parts of the product.

**Do not touch the metal parts of the product when removing the air filter. They are very sharp!**

- There is risk of personal injury.

**Do not step on or put anything on the product. (outdoor units)**

- There is risk of personal injury and failure of product.

**Always insert the filter securely. Clean the filter every two weeks or more often if necessary.**

- A dirty filter reduces the efficiency of the air conditioner and could cause product malfunction or damage.

**Do not insert hands or other objects through the air inlet or outlet while the product is operated.**

- There are sharp and moving parts that could cause personal injury.

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

- It is not sanitary and could cause serious health issues.

**Use a firm stool or ladder when cleaning or maintaining the product.**

- Be careful and avoid personal injury.

**Replace the all batteries in the remote control with new ones of the same type. Do not mix old and new batteries or different types of batteries.**

- There is risk of fire or explosion

**Do not recharge or disassemble the batteries. Do not dispose of batteries in a fire.**

- They may burn or explode.

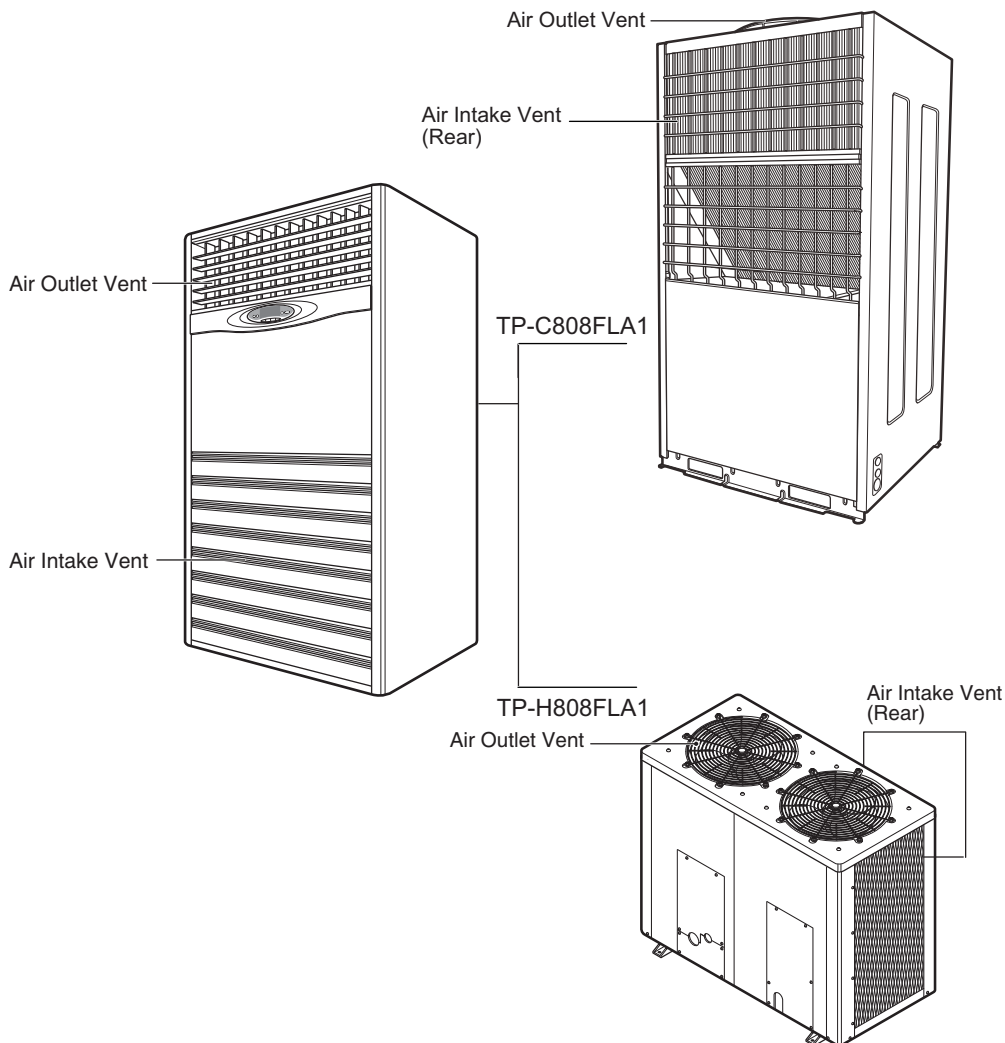
**If the liquid from the batteries gets onto your skin or clothes, wash it well with clean water. Do not use the remote if the batteries have leaked.**

- The chemicals in batteries could cause burns or other health hazards.

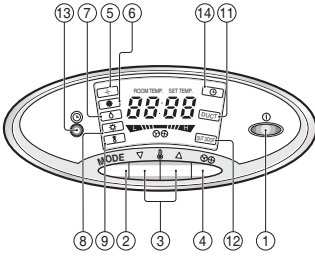
# Operating Instructions

## Features and Specifications

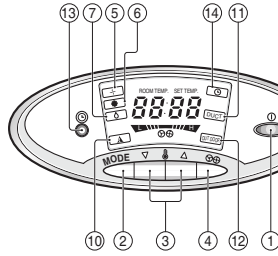
1. Design for cooling and heating
2. Super energy efficiency
3. Micom control
4. Whisper quiet operation
5. 2 cooling/heating speeds
6. Removable air filter
7. Anti-Bacteria filter
8. 3 minutes delay circuit



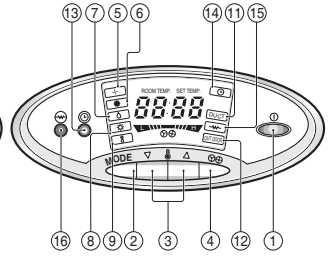
**Indoor Unit Controls and Indicators**



**(Heat Pump)**



**(Cooling Model)**



**(Heat Pump & Electric Heater Model)**

**1. START/STOP BUTTON**

Operation starts when this button is pressed and stops when the button is pressed again.

**2. OPERATION MODE SELECTION BUTTON**

Used to select the operation Mode.

**3. ROOM TEMPERATURE SETTING BUTTONS**

Used to select the room temperature.

**4. INDOOR FAN SPEED SELECTION**

Used to select fan speed in two steps-low, high.

**5. FAN OPERATION LAMP**

**6. COOLING OPERATION LAMP**

**7. SOFT DRY OPERATION LAMP**

**8. HEATING OPERATION LAMP**

**9. DEFROST OPERATION LAMP**

**10. AUTO OPERATION LAMP**

**11. DUCT AIR FLOW LAMP(OPTION)**

**12. OUTDOOR UNIT OPERATION LAMP**

**13. TIMER SETTING BUTTON (OPERATION STOPS AT ON)**

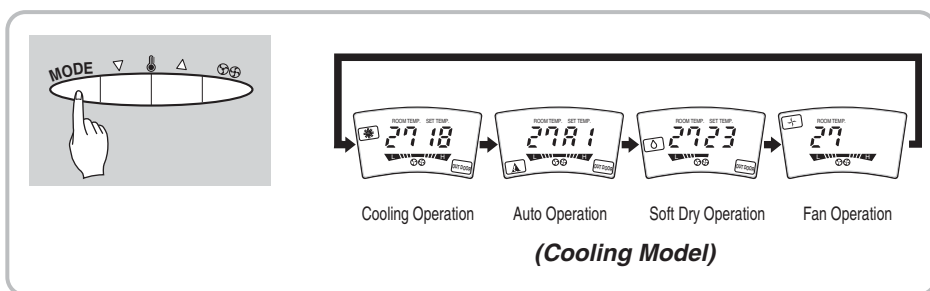
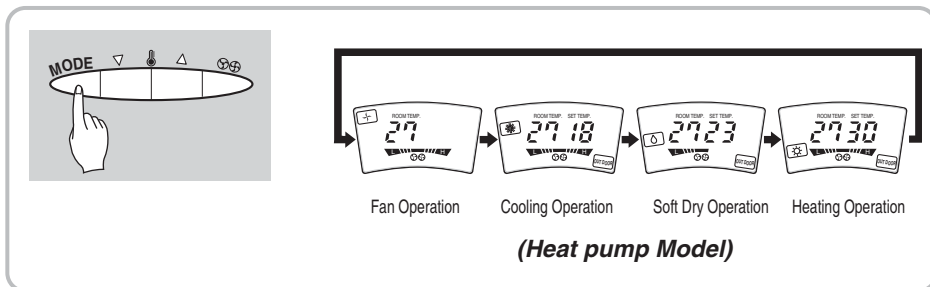
**14. TIMER OPERATION LAMP**

**15. ELECTRIC HEATER OPERATION LAMP**

**16. ELECTRIC HEATER OPERATION BUTTON**

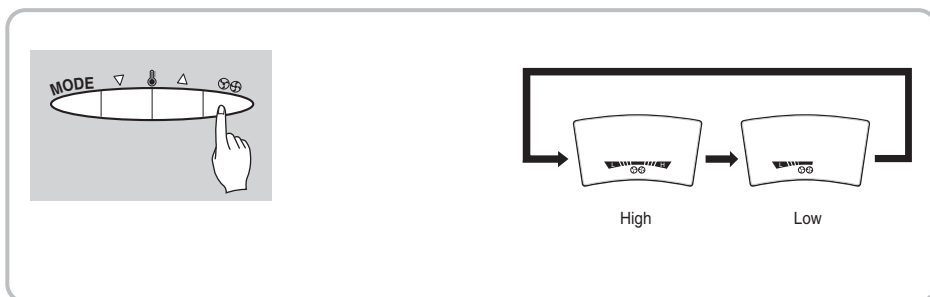
## How to use the Operation Mode Button

- Each time the Operation Mode Selection Button is pressed, the Operation Mode is shifted in the arrow direction.



## How to use the Fan speed Button

- Each time the Fan speed Button is pressed, the Fan speed is shifted in the arrow direction.



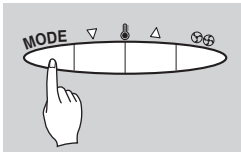


## Cooling Operation Mode

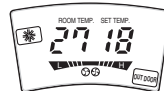
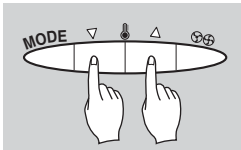
- 1** Press the Start/Stop Button.



- 2** Select Cooling Operation.  
Press the Operation Mode Selection Button.

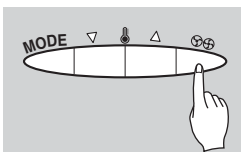


- 3** Set the temperature lower than the room temperature.  
The temperature can be set within a range of 18°C~30°C by 1°C.



- Press the  $\Delta$  or  $\nabla$  button {  $\Delta$  To raise the temperature.  
 $\nabla$  To lower the temperature.

- 4** Set the Fan Speed.



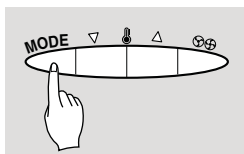
- Each time the Button is pressed, the Fan Speed mode is shifted. (HIGH  $\Rightarrow$  LOW)

## Soft Dry Operation

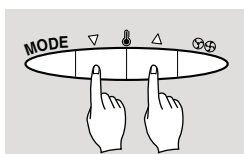
- 1 Press the Start/Stop Button.



- 2 Select **Soft Dry** Operation.  
Press the Operation Mode Selection Button.



- 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.



- Press the  $\Delta$  or  $\nabla$  button {  $\Delta$ To raise the temperature.  
 $\nabla$ To lower the temperature.

### ***During softy Dry Operation***

- The indoor fan speed is automatically set to low and cannot be adjusted.

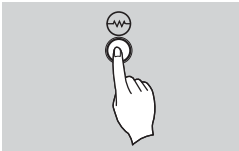


## Electric Heater Operation Mode(Heat pump & Electric heater product only)

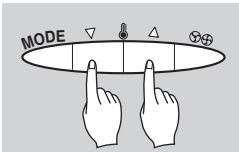
- 1** Press the Start/Stop Button.



- 2** Select heating+ E/heater Operation.
- ① Press the Operation Mode Selection Button to select heating Operation.
  - ② Press the E/Heater Operation Button.  
(When the unit operates in heating mode).

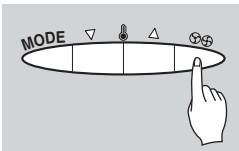


- 3** Set the temperature upper than the room temperature.  
The temperature can be set within a range of 18°C~30°C by 1°C.



- Press the  $\Delta$  or  $\nabla$  button {  $\Delta$  To raise the temperature.  
 $\nabla$  To lower the temperature.

- 4** Set the Fan Speed.



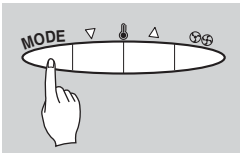
- Each time the Button is pressed, the Fan Speed mode is shifted.

## Auto Operation Mode(Cooling Model Only)

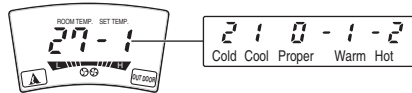
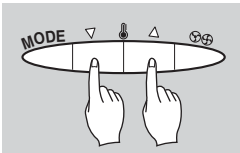
- 1** Press the Start/Stop Button.



- 2** Select Auto Operation.  
Press the Operation Mode Selection Button.



- 3** Set the temperature upper or lower than the standard temperature.  
The temperature can be set within a range of by 1 level.



(This indication will be shifted to the initial Auto Mode Display state after 4 seconds.)

- Press the  $\Delta$  or  $\nabla$  button {  $\Delta$  To raise the temperature.  
 $\nabla$  To lower the temperature.

### During Auto Operation

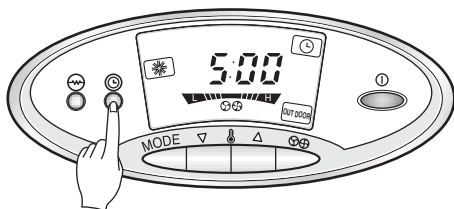
- It is impossible to switch the indoor fan speed because of being already set to the best conditioner by fuzzy rule.

## OFF Timer Setting Procedure(OFF TIMER Setting, or CANCEL)

- 1 Press the Start/Stop Button.



- 2 Press the Timer Button.



- If you press the button, the selected off timer is displayed as follows;

1:00→2:00→3:00→4:00→5:00→6:00→7:00→0:00

- If you select '0:00', the Off Timer function will be cancelled.

- 3 When you finish the Off Timer setting, the Timer indicator lights off.



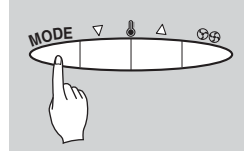
- 4 During off-timer operation if you press the Timer Button, the rest time will be displayed.

## Fan Operation Mode

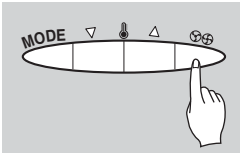
- 1** Press the Start/Stop Button.



- 2** Select Fan Operation. Press the Operation Mode Selection Button.



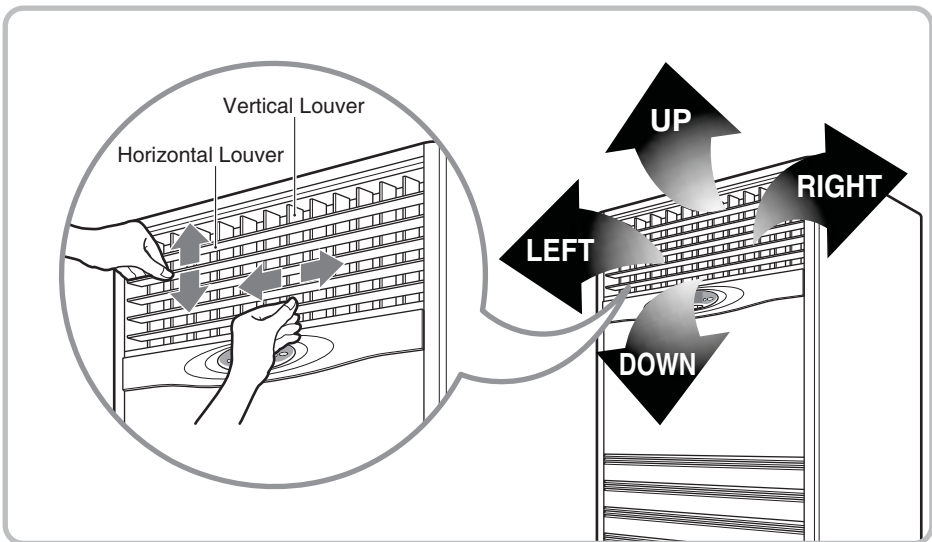
- 3** Set the Fan Speed.



- Each time the Button is pressed, the Fan Speed mode is shifted.

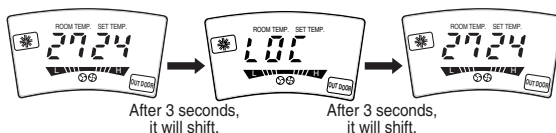
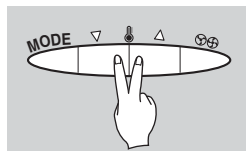
## Airflow Direction Procedure

Adjust air flow direction manually by moving the horizontal or vertical louvers with hand.



## Child Lock Operation Procedure

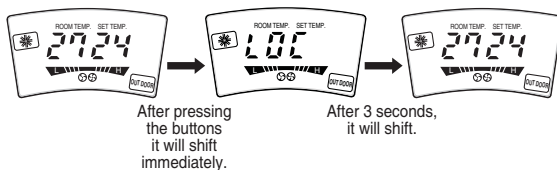
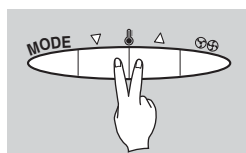
- 1** Press the low and high temperature setting buttons simultaneously for 3 seconds. The unit will respond with beep.



- 2** During Child Lock Operation

- ❶ Whenever you press any Button on Display Panel, it will immediately display “LOC”, which means Display panel is Locked.
- ❷ All the Button on the indoor unit Display panel will not work.

- 3** For releasing child lock Operation  
Press the low and high temperature setting buttons simultaneously for 3 seconds again. The unit will respond with beep, Child Lock Operation will removed.



## Auto restart

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.



# Maintenance and Service

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

## During the season

### Cleaning of the air filters.

Recommended about once every two weeks

- 1** Remove the Air Filter.  
Take hold of the tab and pull slightly forward to remove the filter.
- 2** Clean.
  - To remove the dust adhering to the filters, either use a vacuum cleaner, or wash them in water and dry in the shade.
  - Re-insert the filter to the original position.

### Cleaning of the air cleaner.

Recommended about once every three months

- 1** Remove the Air Cleaner.  
Take hold of the tab and pull slightly forward to remove the air cleaner.
- 2** Clean.
  - Dip the air cleaner into the water mixed with detergent, for 20-30 minutes, and dry in the shade.
  - Re-insert the air cleaner to the original position.

### Cleaning of the air conditioner

- Don't wash with water.
- Wipe with a soft dry cloth.

### 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.

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

### At the end of the season

- 1** Operate the air conditioner at the following settings for 2 to 3 hours.
  - Type of operation : Cooling.
  - Temperature setting : 30°C.
 This will dry out the internal mechanisms.
- 2** Turn off the circuit breaker.



**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.

### At the start of the season

- 1** Clean the air filters, re-insert, then operate the air conditioner.
- 2** Be sure that nothing obstructs the air outlet and intake vents.

## Operation Tips

### Do not overcool the room.

This is not good for your health and wastes electricity.

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.

### Keep blinds or curtains closed.

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

### 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.

### Keep the room temperature uniform.

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

### 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

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

Case	Explanation	See page
Does not operate.	<ul style="list-style-type: none"> <li>• Have you made a mistake in timer operation?</li> </ul>	
	<ul style="list-style-type: none"> <li>• Has the fuse blown or has the circuit breaker been tripped?</li> <li>• Is the power Switch at Off?</li> <li>• Is the unit at the starting of Heating Operation? If yes, Hot-start is activating.</li> <li>• Is the unit in the Deicing? If yes, wait for finishing the Deicing.</li> </ul>	-
The room has a peculiar odor.	<ul style="list-style-type: none"> <li>• Check that this is not a damp smell exuded by the walls, carpet, furniture, or cloth items in the room.</li> </ul>	-
It seems that condensation is leaking from the air conditioner.	<ul style="list-style-type: none"> <li>• Condensation occurs when the airflow from the air conditioner cools the warm room air.</li> </ul>	-
Air conditioner does not operate for about 3 minutes when restarted.	<ul style="list-style-type: none"> <li>• This is the Protection device of the air conditioner .</li> <li>• Wait about three minutes and operation will begin.</li> <li>• If the airflow begins before its temperature become warm, it will cause an undesired cooling effect. In order to prevent this, the airflow will not begin until it is sufficiently warm.</li> </ul>	
Does not cool or heat effectively.	<ul style="list-style-type: none"> <li>• Is the air filter dirty? See air filter cleaning instructions.</li> </ul>	19
	<ul style="list-style-type: none"> <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> </ul>	-
	<ul style="list-style-type: none"> <li>• Has the temperature been set incorrectly?</li> <li>• Are the indoor unit's air inlet or outlet vents obstructed?</li> </ul>	-
The air conditioner operation is noisy.	<ul style="list-style-type: none"> <li>• For a noise that sounds like water flowing. -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. -This is the sound of the dehumidifying water being processed inside the air conditioning unit.</li> </ul>	-

### Notes:

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Capacities are based on the T1 conditions.

