

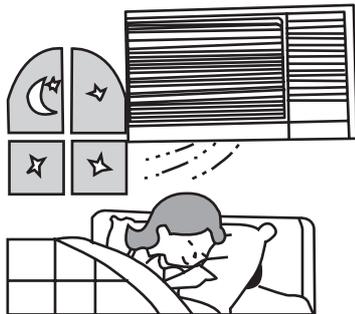
# Function and working temperature range.

## Introduction

Window type room air conditioners of GREE can regulate the room temperature, dry the room. It is convenient for your work, study and life. It can be widely used in residence, shop, hotel, office, library and laboratory, and so on.

## Cooling in summer

In hot summer, Air conditioner can cool down room air by transferring heat out.



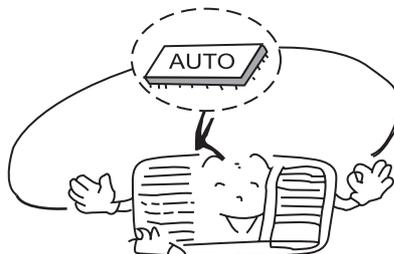
## Dehumidifying in rainy or humid season

Without reducing room temp, Air conditioner can dehumidify and make room air dry and comfortable.



## Operating auto

- According to room temperature change, microcomputer can automatically set COOL or FAN operation mode, so as for the best effect.





## Technical Specifications

Model	KC-32/C1	KC-32/C1A
Function	Mechanic control cool only type	Remote control cool only type
Cooling capacity(w)	3200	
Power supply	220-230V~ 50Hz	
Power input(w)	1880	
Refrigerant	R22	
Noise (dB(A))	51	
(indoor/outdoor)	57	
Climate type	T1	
Dimension(cm)	W × H × D	57 × 38 × 59
Weight (Kg)	45	

★ : If there is any change, we will not give you notice here, the correct parameter is in the nameplate of your air-conditioner.

★ : Temperature range of working environment: Cooling type:

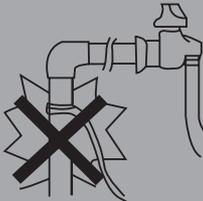
	Indoor side DB/WB (°C)	Outdoor side DB/WB (°C)
Maximum cooling	32/23	43/26
Minimum cooling	21/15	21/-

# Operating Condition

Please operate air condition in correct conditions as following

Cool mode operation	DRY mode operation
<p>Outdoor temperature should be in range of 18°C to 43°C, Otherwise it is possible for air conditioner to breakdown.</p> <p>Room temperature should be in range of 18°C to 32°C.</p> <p>Room humidity should be lower than 80%. Otherwise it is possible to dew at air conditioner surface and even drop water.</p> 	<p>Outdoor temperature should be in range of 18°C to 43°C, otherwise it is possible for air conditioner to breakdown. Room temperature should be in range of 18°C to 32°C.</p> 

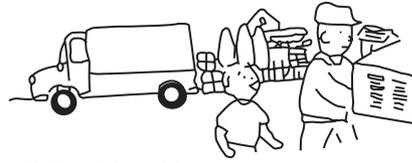
# Power requirement

	<p>Rated voltage range: 220-230V ~</p> <ul style="list-style-type: none"> <li>* The compressor would vibrate violently to damage the refrigeration system, when voltage is too high.</li> </ul>	
	<p>Electric circuit</p> <ul style="list-style-type: none"> <li>* Must use special socket, do not use longer power lines, do not share a same socket with other electric appliances to avoid fire etc.</li> <li>* The earthing method must be reliable.</li> <li>* Work within correct voltage range.</li> </ul>	
<p><b>Earth wire</b> do not connect earth wire to following places.</p>		
<p>Water pipe</p> 	<p>Gas pipe</p> 	

# Installation

## Caution for use:

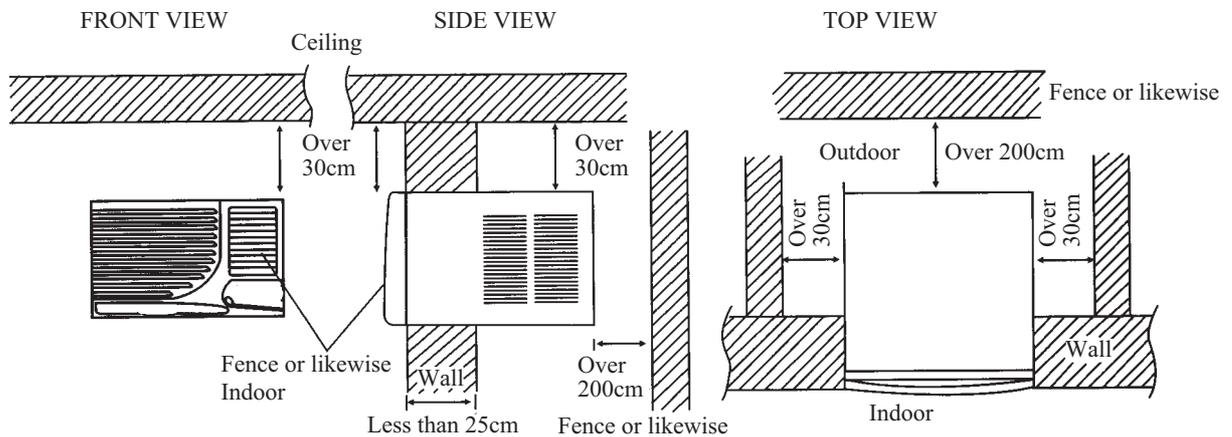
Please associate special technician to install the window type conditioner.



- Install air conditioner unit far away TV set or radio etc.,to avoid disturbing video or voice.
- In salt and coastal area or place where is near thermal springs and polluted by sulphurous gas, or other special areas, please contact with seller before use.
- Avoid place where is possible for flammable gas to leak out.
- Avoid other heat sources or direct sun light.
- Avoid place where is easy for children to touch.

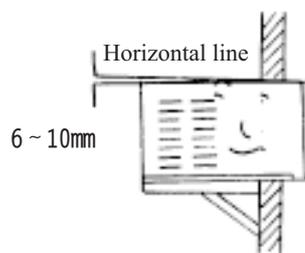
## How to install:

- There are no any obstacles surrounding the unit.
- Prepare the installation hole slightly bigger than unit size.



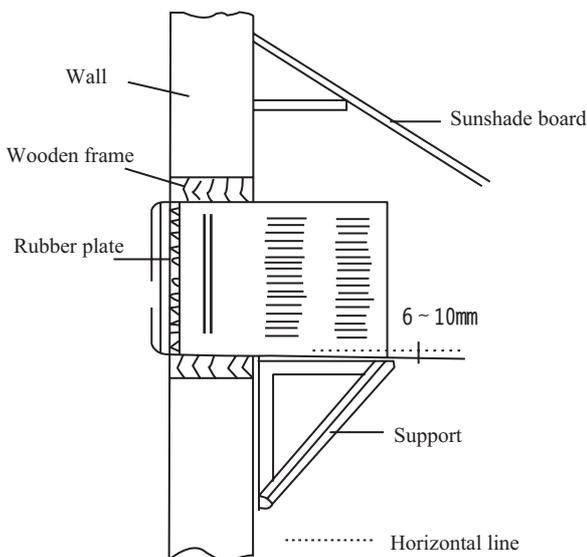
## Installation procedure:

1. Remove sticker from front panel.
2. Put unit into installation hole. When installation, unit should be slanted down to the back to avoid enlarge of noise or vibration. (slant between 6-10mm)  
Installation place should be strong enough to avoid enlarge of noise or vibration.
3. Fill up sews in the cabinet by sponge or puffy.



## Installation assistance:

- Use iron support  
Installation hole should be strong enough to support the air conditioner. If it can not, iron support has to be used in outside. Iron support should be fixed on the building.
- Use sunshade board  
Air conditioner should avoid anything to be dropped into it and avoid direct sunshine. If there is no cover on it, you should contact the seller for installation of sunshade board.
- Sunshade board and support can be purchased locally to satisfy your particular needs.



## Drain water:

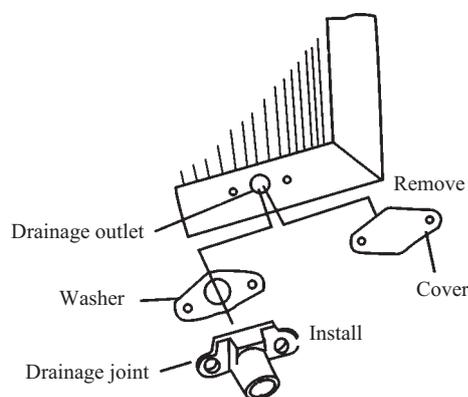
To get the maximum cooling efficiency, the air conditioner is designed to splash the condensate on the condenser coil.

If the splashing sound annoys you, you can provide an outside drain by using the following procedure, which may however cause a small loss of performance.

1. There is a drainage outlet at the back of the unit.
2. Remove cover from the drainage outlet, and then connect drainage joint to it with screw.
3. Connect the drain hose to the outlet.

Note:

Drain hose or tubing can be purchased locally to satisfy your particular needs.



# Installation precaution

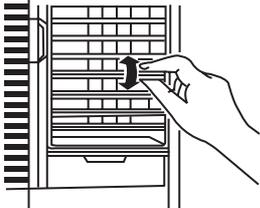
<p><b>Remove</b></p> <p>When remove air conditioner to other place, it needs special technician, so contact with seller firstly.</p>	
<p><b>Noise</b></p> <ul style="list-style-type: none"> <li>* Install on place firmly enough to avoid transmitting or increasing noise and vibration.</li> <li>* Do not put objects in front of outdoor unit air outlet, to avoid increasing noise.</li> <li>* Be sure not to make trouble to neighbors with hot air or noise from outdoor unit.</li> <li>* Please contact with seller as soon as there is strange noise during operation.</li> </ul>	
<p><b>Electric lines location</b></p> <ul style="list-style-type: none"> <li>* Must connect with ground reliably.</li> <li>* Must use rated voltage and electric circuit specific for air conditioner.</li> <li>* Avoid octopus type of multi-plug which would cause over heat.</li> <li>* Do not pull power lines strongly.</li> <li>* To fit an electrical leakage-proof switch, please contact with special electric dealer.</li> <li>* Choose circuit-breaker having a capacity of 16 Amp to meet with the current specification.</li> <li>* Power cord should be more than 2.5mm<sup>2</sup> in area.</li> </ul>	

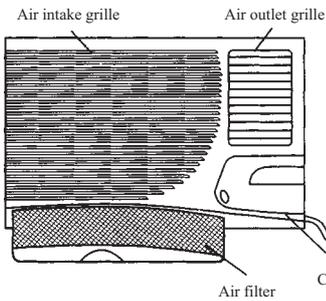
# Product component identification

## Product Component Identification of Remote control of Window type air condition.

**Vertical airflow direction vane**  
(Airflow direction adjustment Up and Down)

The vertical airflow direction by positioning the vane to discharge the air upward, downward or straight out.

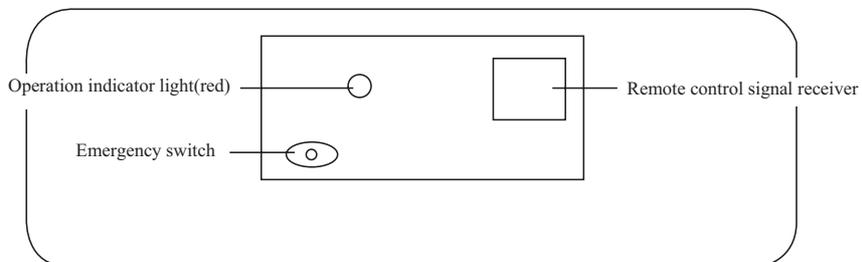




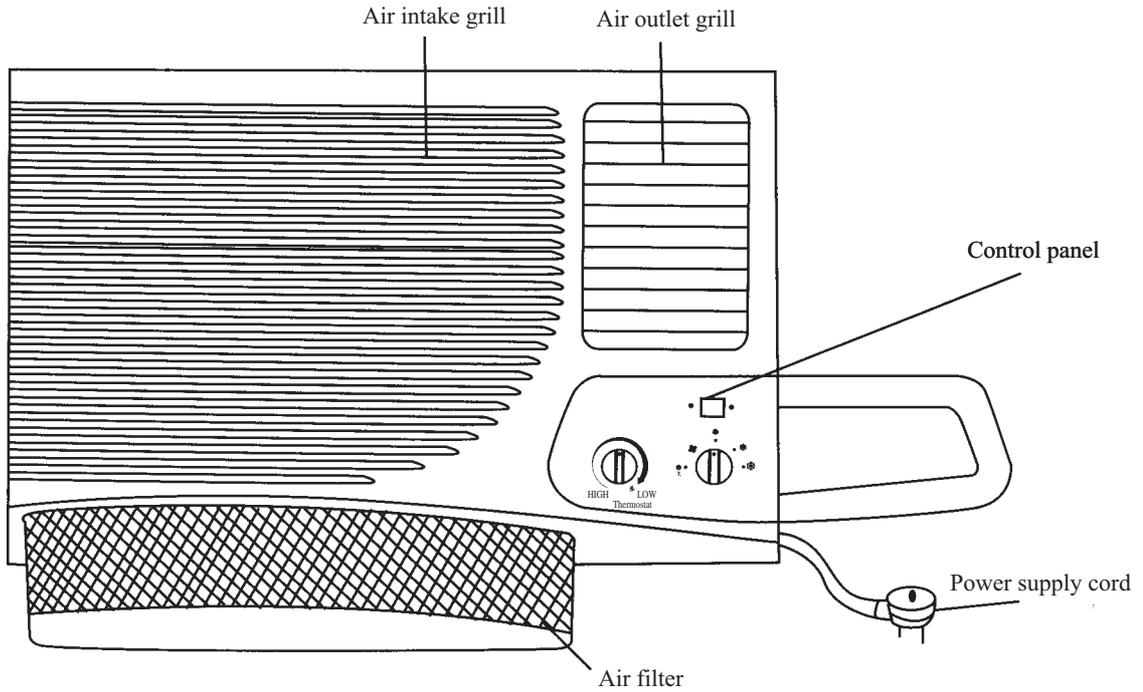
**Power supply cord**

Confirm that the power supply cord is connected to a proper AC outlet.

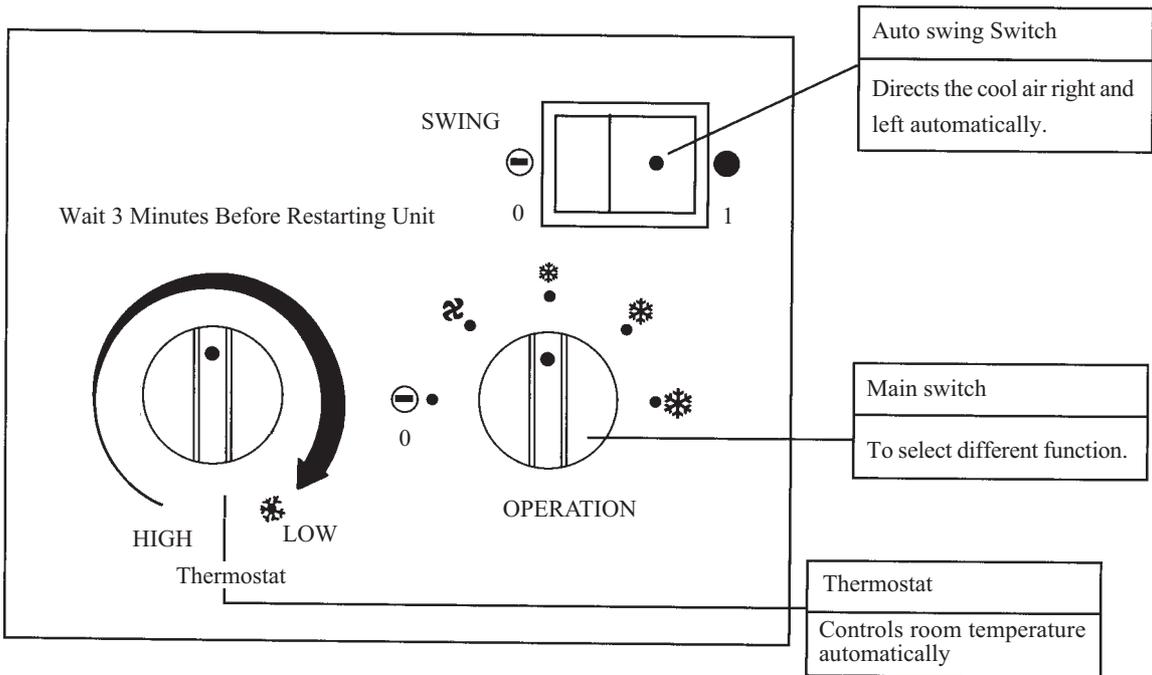
## Remote control panel



Product Component Identification of Mechanic control of Window type air condition



Operating instructions



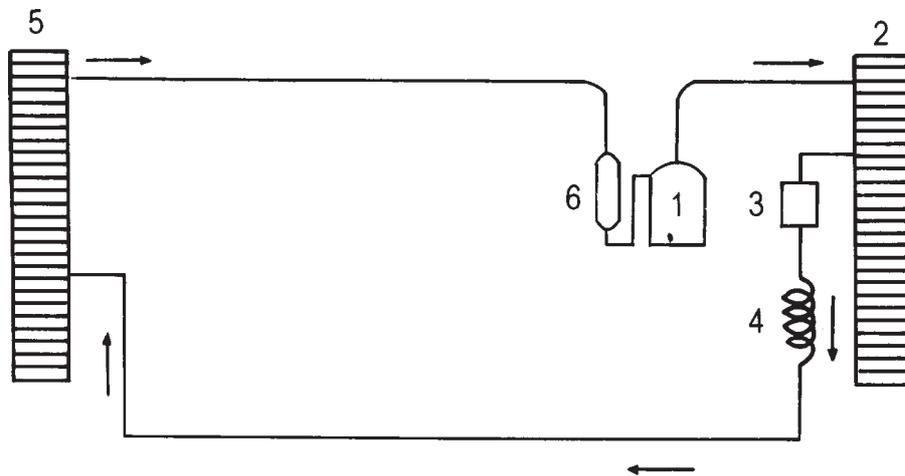
# Air-conditioning Principle

## Refrigeration principle



Accomplished by continuously circulating of refrigerant in a closed system. Low pressure refrigerant gas from evaporator is pumped, increased its pressure, and discharges to the condenser by compressor. When axial flow fan working, heat exchanging occurs between the high pressure gas and outside air, it changes into liquid. Then passing through the capillary tube, its pressure and temperature becomes lower and lower. Heat from room air is transfer to the refrigerant liquid by centrifugal fan.

## Schematic diagram for cool only type

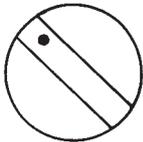


1. Compressor    2. Outdoor heat-exchanger    3. Filter    4. Capillary tube  
5. Indoor heat-exchanger    6. Accumulator



# Mechanic control of Windows type air conditioner operation procedure

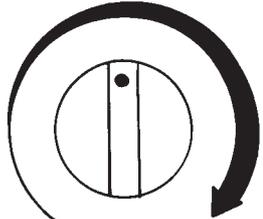
Turn the main switch to  position, air-conditioner stop work.

Turn the main switch to  position, just operates the fan.

Turn the main switch to the position as follow:

-  Cooling with low fan.
-  Cooling with middle fan.
-  Cooling with high fan.

Set the thermostat switch at a desired position.  
If you want more cooling turn the knob nearest to .

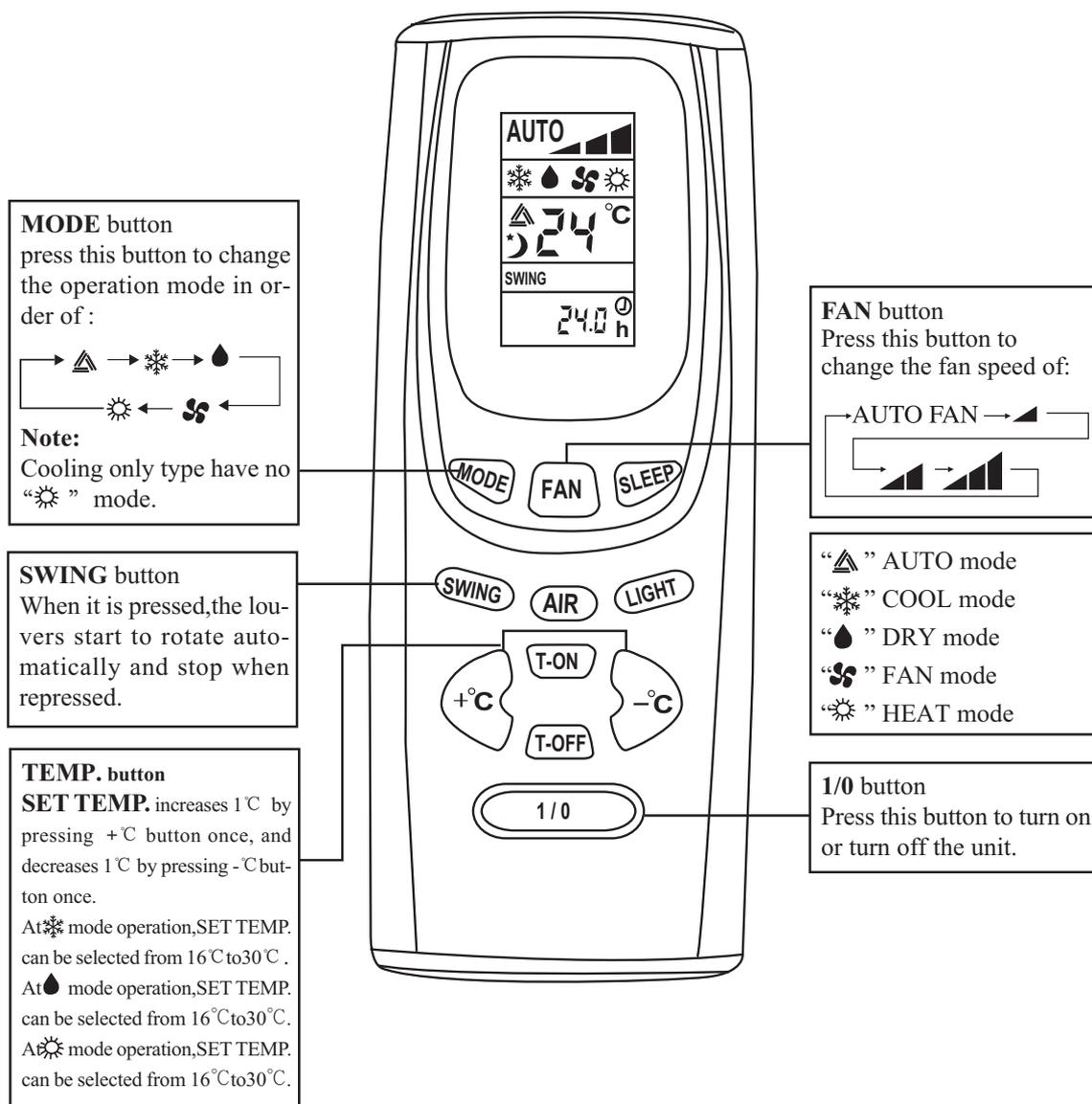
  
HIGH      LOW  
Thermostat

# Remote control operation procedure

## ● Name and Function-Remote control

### Note:

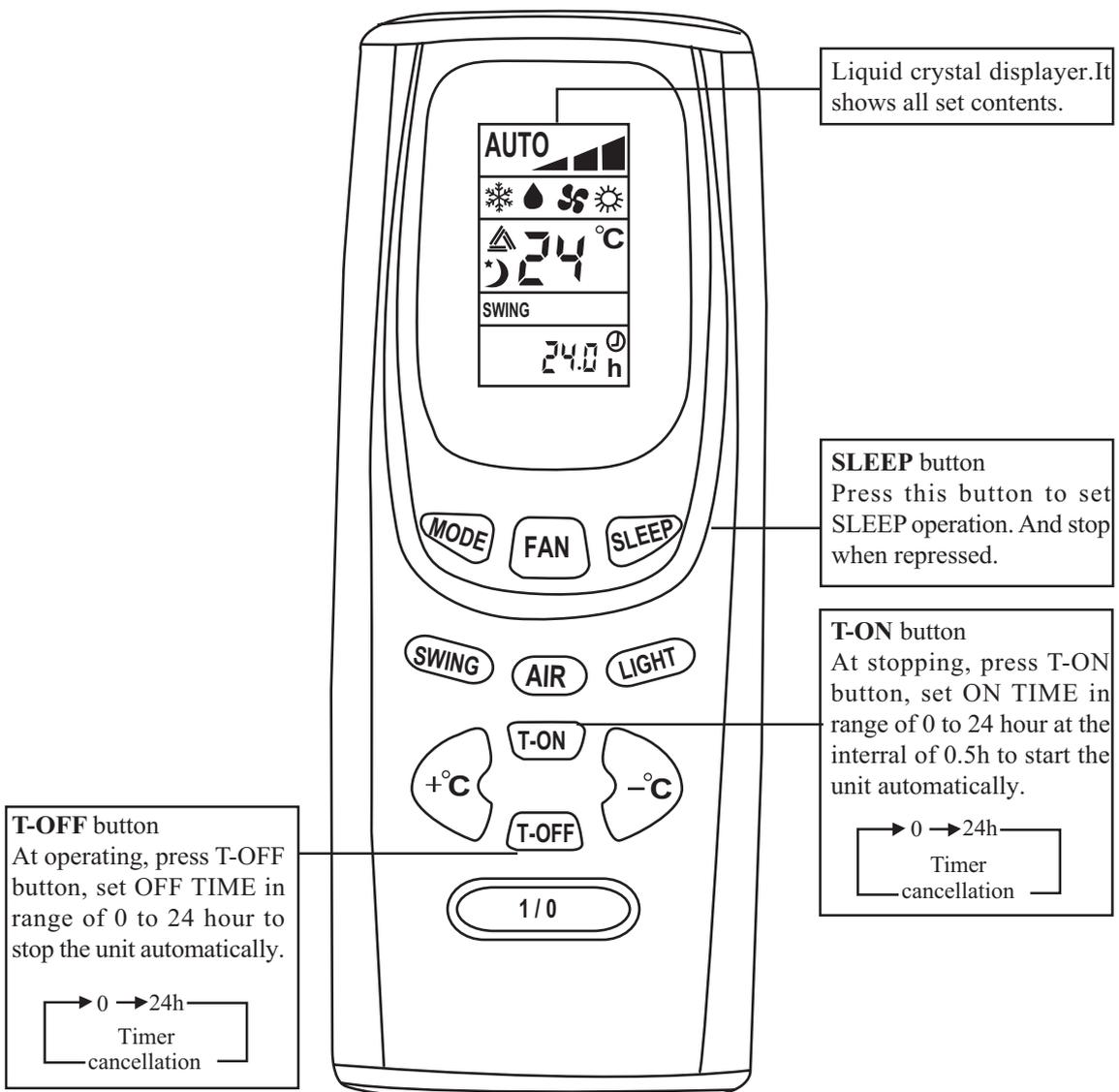
- Be sure that there are no obstructions between receiver and remote controller.
- The remote control signal can be received at the distance of up to about 8m.
- Don't drop or throw the remote control.
- Don't let any liquid in the remote controller and put the remote controller directly under the sunlight or any place where is very hot.



## ● Name and Function-Remote control

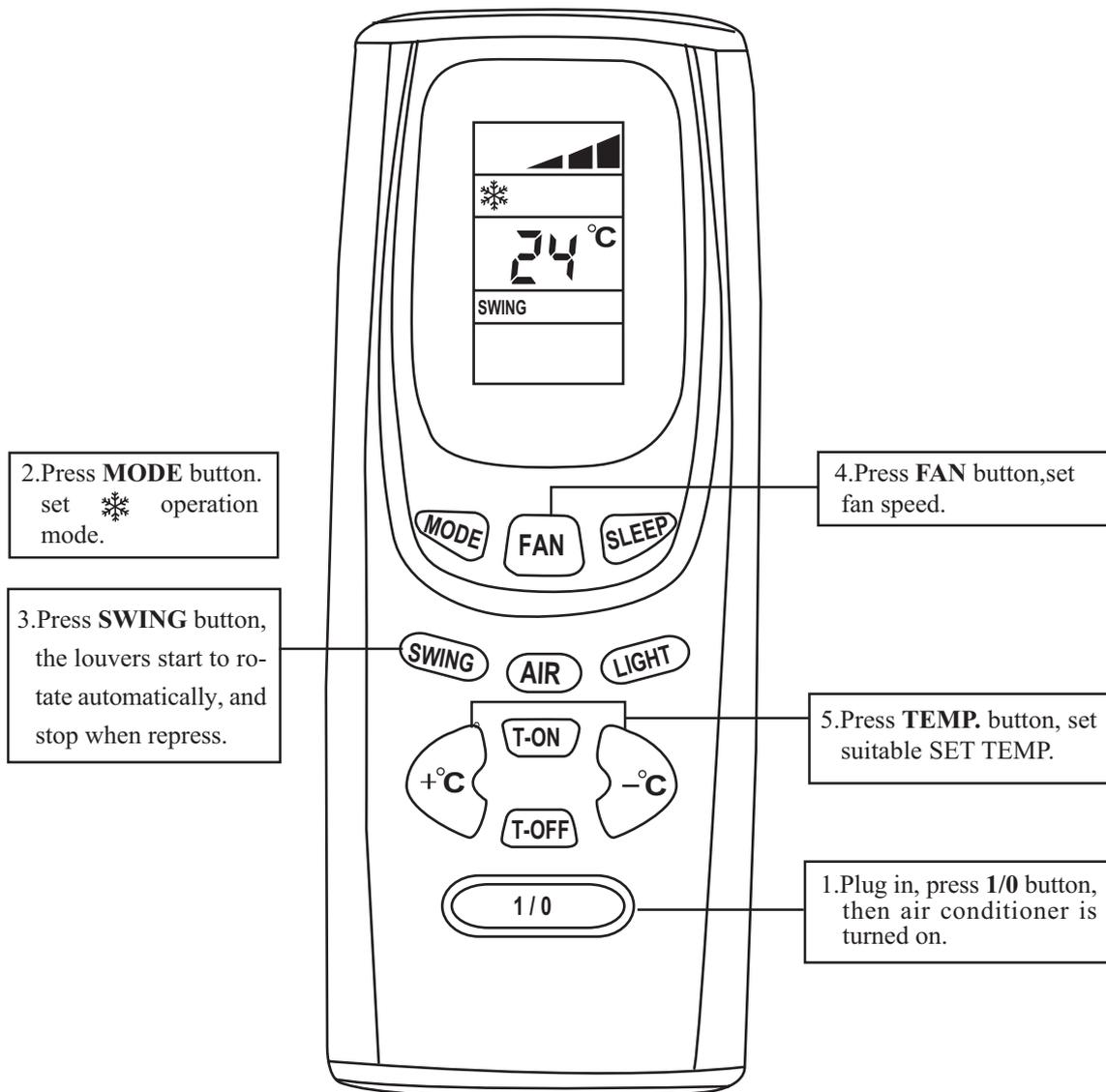
**Note:** ● This type of remote controller is a kind of new current controller. Some buttons of the controller which are not available to this Air conditioner will not be described below.

● Operate on unmentioned buttons would not impact on the normal use.



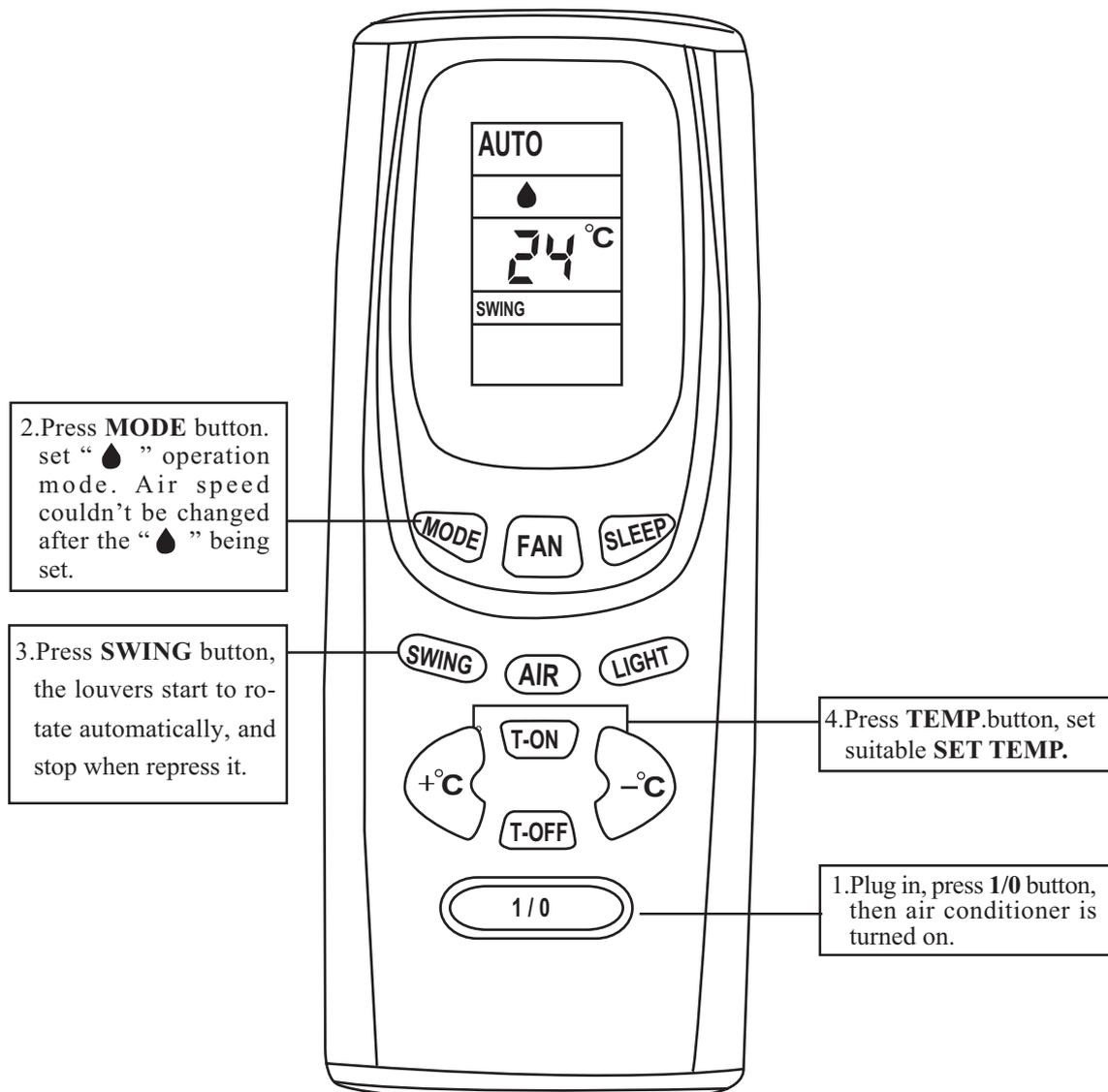
## ● COOL mode operation procedure

- According to difference between room temp. and set temp., microcomputer can control cooling on or not.
- If room temp. is higher than set temp., compressor runs at COOL mode.
- If room temp. is lower than set temp., compressor stops and only indoor fan motor runs.
- SET TEMP. should be in range of 16 °C to 30 °C .



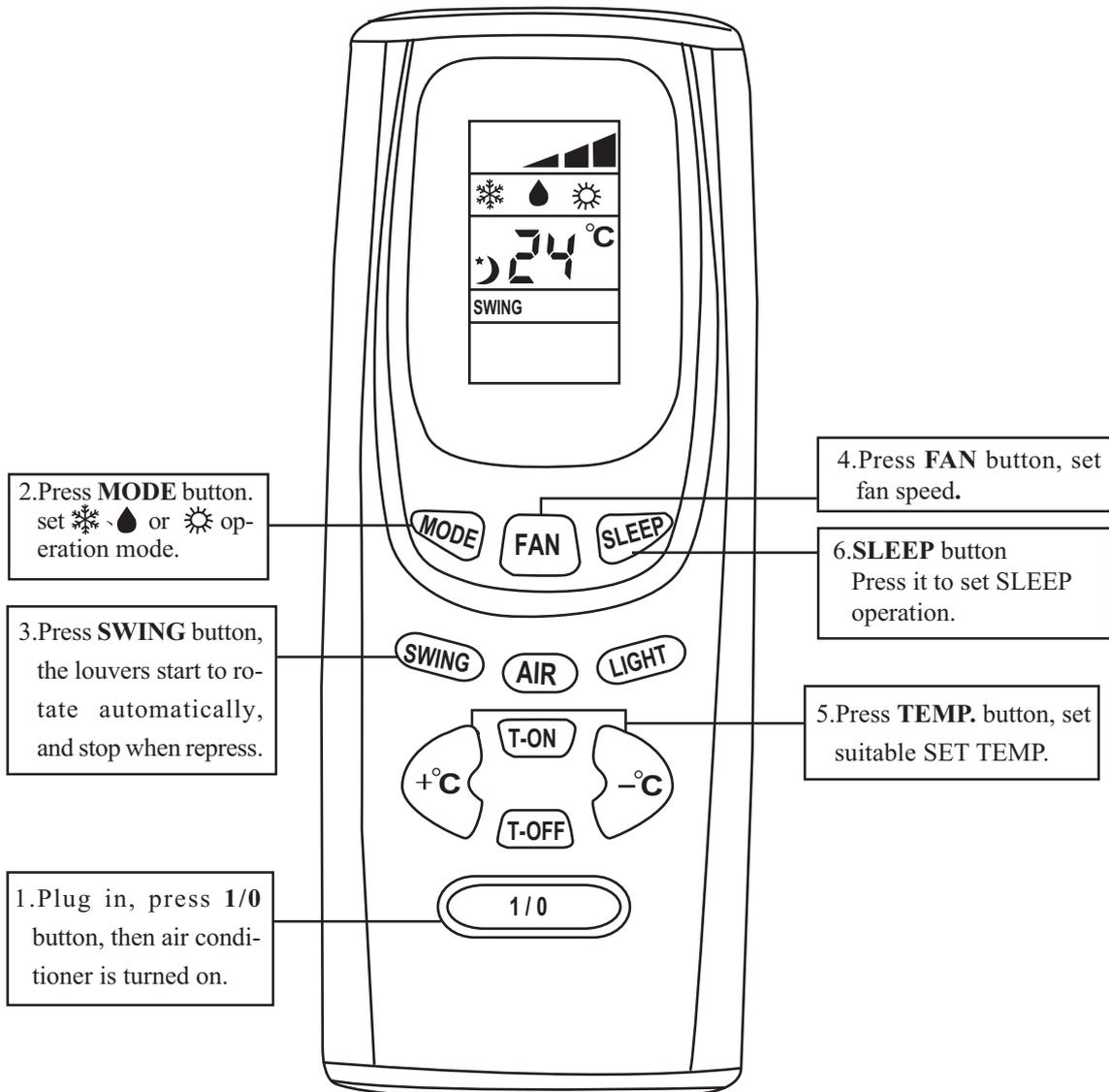
## ● DRY mode operation procedure

- If room temp. is lower than set temp., compressor, outdoor and indoor fan motor stop. If room temp. is between  $\pm 2^{\circ}\text{C}$  of set temp., Air conditioner is drying. If room temp. is higher than set temp.  $2^{\circ}\text{C}$ , it's at COOL mode.
- SET TEMP. should be in range of  $16^{\circ}\text{C}$  to  $30^{\circ}\text{C}$ .



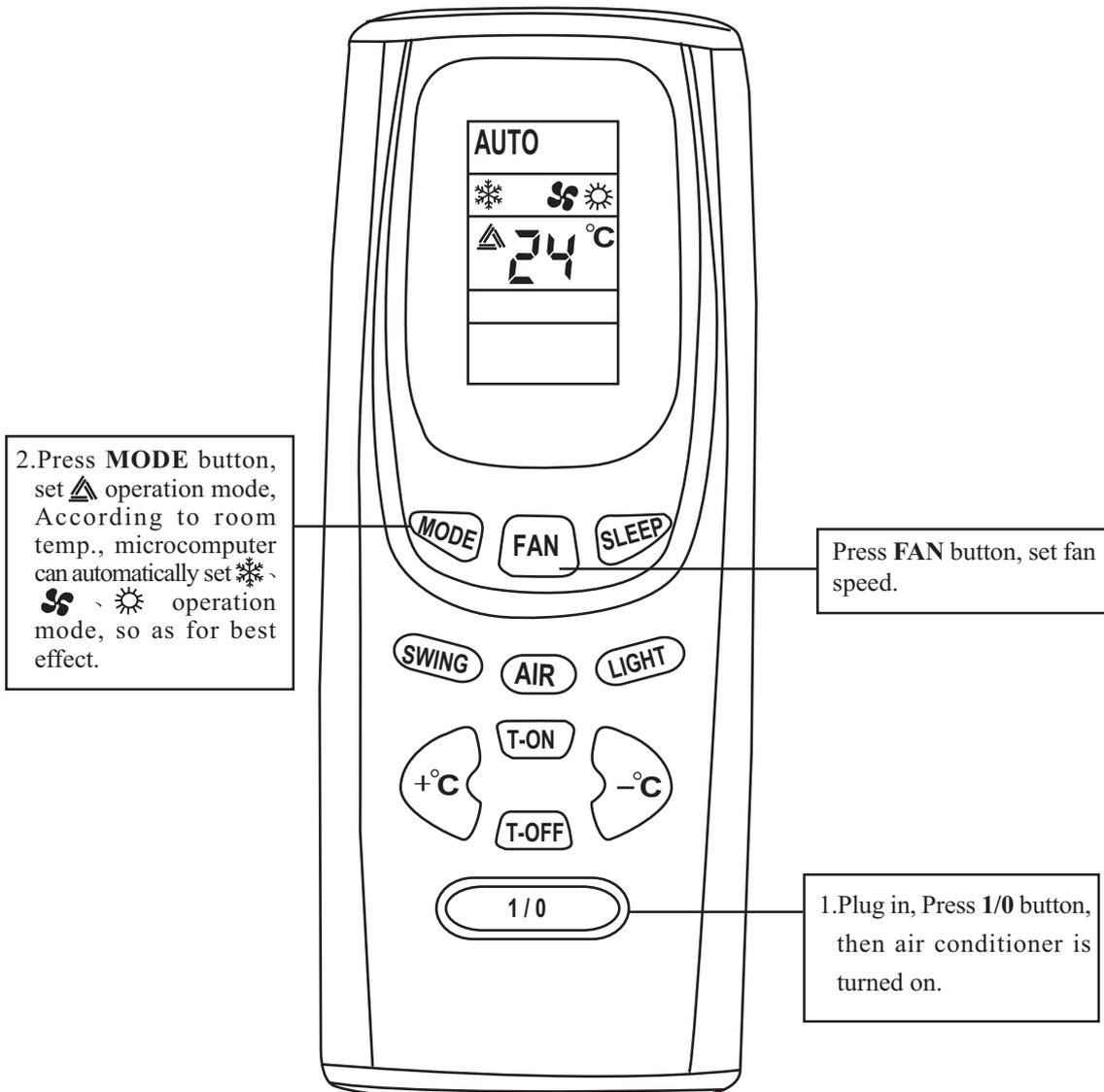
## ● SLEEP mode operation procedure

- As the unit is cooling or drying ,if SLEEP operation is set, SET TEMP. would increase 1°C in 1 hour and 2°C in 2 hours.

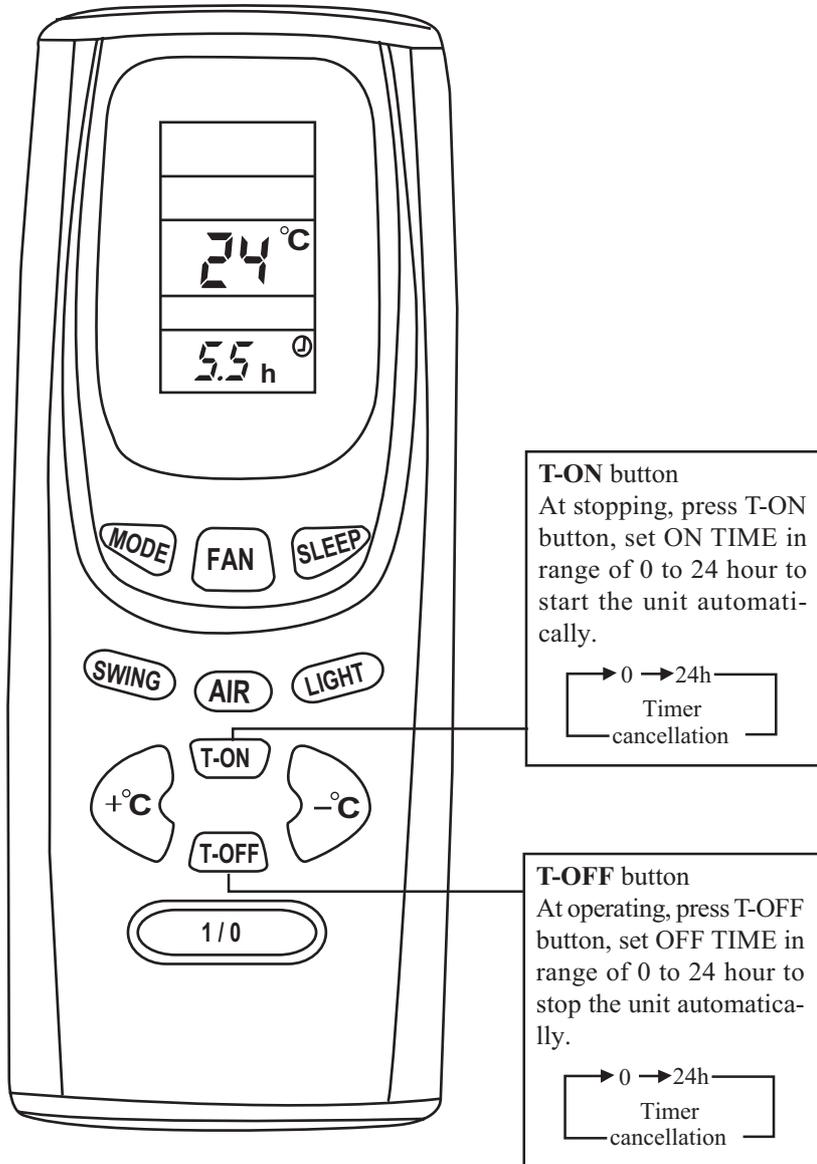


## ● AUTO mode operation procedure

- Under Auto mode operation, standard SET TEMP. is 25°C for COOL mode, fan speed can be changeable.
- If room temp. is in range of 23°C to 26°C, air conditioner is at FAN mode.
- If room temp. is higher than 26°C, it's at COOL mode.



## ● TIMER mode operation procedure

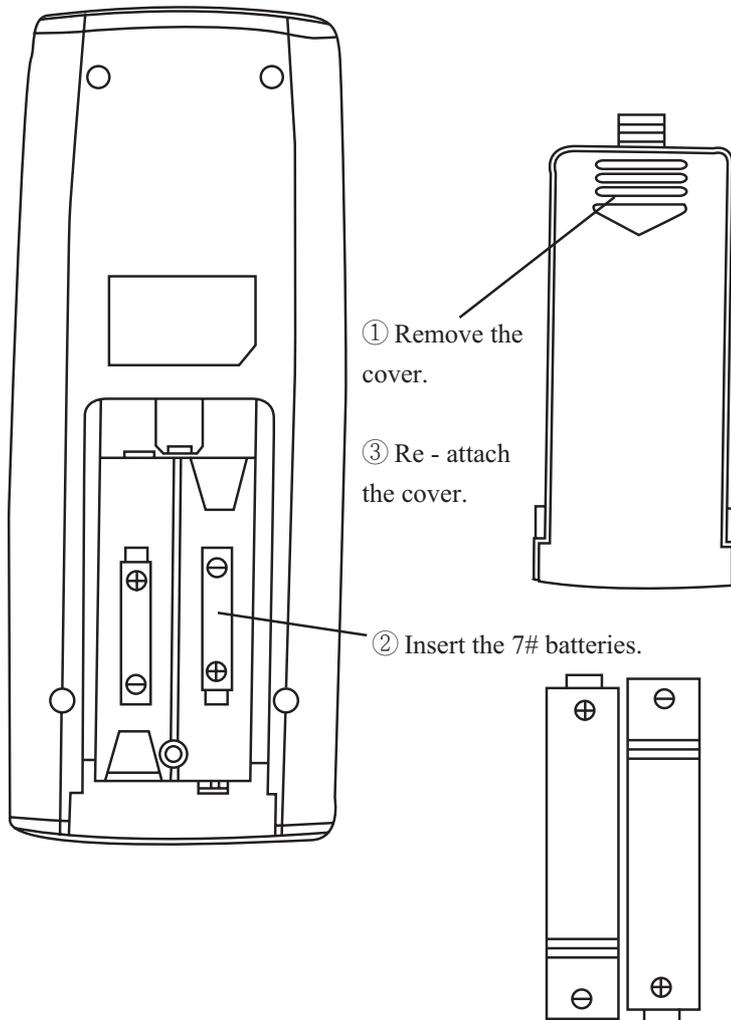


## ● How to insert batteries

1. Remove the cover from the back of the remote control.
2. Insert the two batteries (Two AAA dry - cell batteries).
3. Re - attach the cover.

### NOTE:

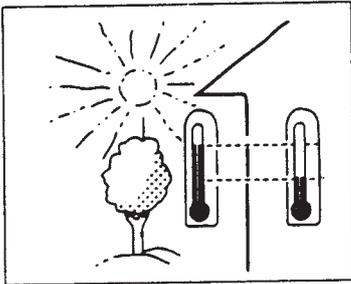
- Don't confuse the new and worn or different types of batteries.
- Remove batteries when the remote controller is not in use for a longtime.
- The remote control signal can be received at the distance of up to about 8m.
- The lifetime of the batteries is about one year.
- The remote controller should be placed about 1m or more away from the TV. or any other electric appliances.
- Bad batteries are forbidden.



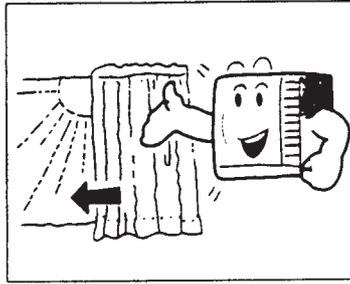
# Operation Tips

## Operation for comfort and economy

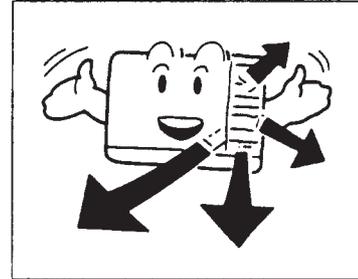
Do not overcool the room temperature, This is not good for health and waste electricity.



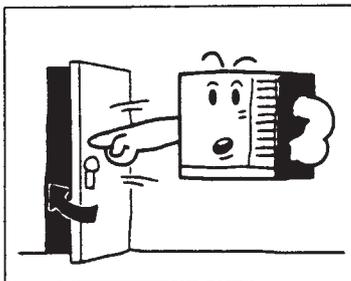
Keep the room, Do not let sunshine enter the room directly when the air condition is in operation.



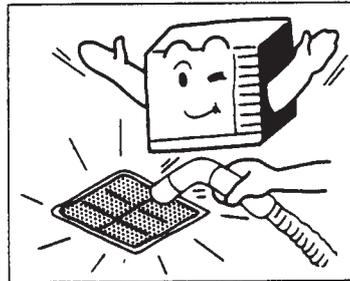
Keep blind or curtains closed, Adjust the vertical and horizontal airflow direction to ensure a uniform temperature in the room.



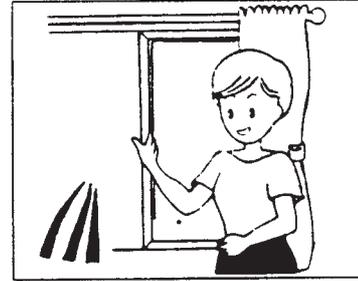
Make sure that the doors and windows are shut tightly. Avoid opening doors and windows as much as possible to keep the cool air in the room.



Clean the air filter regularly. Blockages in the air filter reduce 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.



# Emergency run operation procedure

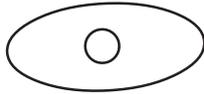
If wireless remote controller is lost, open the surface panel and operate as following:

## Note:

When operating emergency switch, we should use something rigid and long, with its size less than 2.5mm in diameter. Exert properly to avoid damage.

### Emergency switch operation

Emergency switch



start	At stopping, press AUTO button, start the air conditioner at AUTO mode operation.	* According to room temp. change, microcomputer can automatically set COOL or FAN operation mode, so as for best effect.
stop	At operation, press AUTO button, stop the air conditioner.	* Air conditioner stop

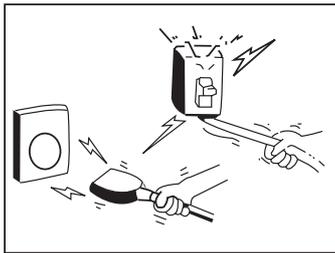
# Air flow direction adjustment procedure

1. Vertical air cooling direction	2. Horizontal air direction
<p>When the cooling air is desired to be directed up and down, move the horizontal vanes up or down by hand.</p> <p style="text-align: right;">Horizontal vanes</p>	<p><b>AUTO swing</b> Make the cooling air right and left forcedly by swing the vertical vanes of the auto swing mechanism.</p> <p style="text-align: right;">Swing vanes</p> <ul style="list-style-type: none"> <li>● Pull to this direction, the swing vanes sway to two side direction.</li> <li>○ Pull to this direction, the swing vanes sway at a certain angle.</li> </ul>

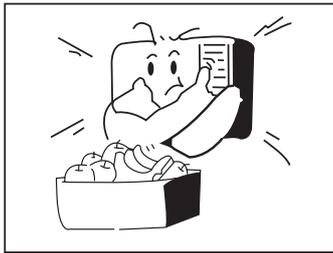
## ● Caution

- 1) The plug must be accessible after the appliance is positioned.
- 2) Do not use this appliance in the laundry.
- 3) If the power cord is damaged, it must be replaced by the manufacture or its service agent in void of hazard.

Do not pull out the power cord.  
Damage to the cord may result in serious electrical shocks.



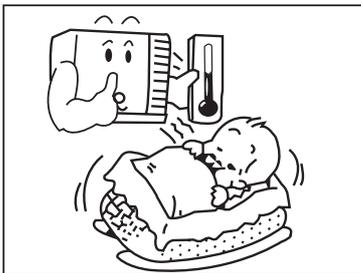
Do not use the air conditioner for purposes other than cooling the room.  
Do not use the air conditioner for other purposes such as drying clothes, preserving foods, keeping animals, or cultivating vegetables.



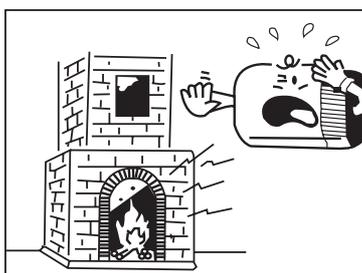
Do not block the air intake and outlet vents  
This causes lowered performance and irregular operation. Do not insert sticks or other objects into these vents as it is dangerous to touch the electric components and the fan.



Select the most appropriate temperature.  
Take care to adjust the temperature to suit the conditions.  
Rooms occupied by infants, the elderly, or the sick should be kept at an appropriate temperature.



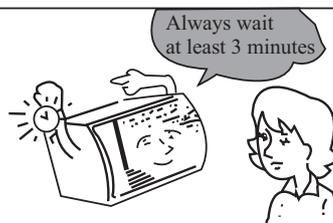
Do not use heating apparatuses in the vicinity. The air conditioner's plastic parts melt if exposed to excessive heat.



Avoid exposing the body directly to a continuous unidirectional air flow for long periods.  
This is not recommended for health reason.



Always wait at least 3 minutes before switching the air conditioner on again after you have switched it off during cooling.



# Care and maintenance

Always turn off the air conditioner and main power supply before cleaning to ensure safety.

## Clean unit

1. Plug out first before cleaning.

Plug out only after air conditioner stops at all.



2. Clean surface panel with a soft and dry cloth, which is soaked in warm water below 40°C.

Must dry the cloth by hands before cleaning.



3. Do not use chemical solvent for cleaning.



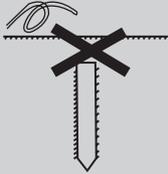
4. Do not splash water directly to indoor unit. In which there are microcomputer and circuit plate, they must not be touched by water.

Accident will happen.



\* Check earth wire

Is it broken or loose?

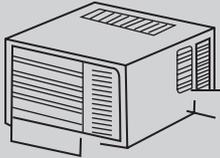


### Air filter

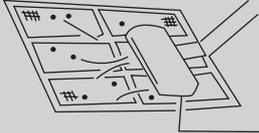
The air filter behind the intake grille should be washed at least every two weeks or as often as it needs cleaning.

How to clean the air filter:

- To remove the air filter, grasp the tab on the filter and pull to the right.



- Vacuum the filter on the dusty side to remove light dust.



Vacuum cleaner

- Wash the filter, cleaner side up under gently flowing water to wash out accumulated dust and lint.



- If the filter is very dirty, use a mild household detergent in the wash water.



Let the filter dry thoroughly before reinstalling it. When reinstalling the filter, be sure the word "FONT" is facing you as you slide the filter back into place.

\* Check air inlet and outlet of outdoor unit.

Air lock could result in bad efficiency.



## When trouble shooting

Please check the following items before ask for repair,it saves your time and money.

Fault phenomenon	Trouble-shooting
<p>Air conditioner dose not operate at all</p> 	<ul style="list-style-type: none"> <li>* Is power fail?</li> <li>* Is plug out?</li> <li>* Is power fuse or switch off?</li> <li>* Is voltage higher than 253 or lower than 198?</li> <li>* Is SET TIME suitable?</li> </ul>
<p>Cool efficiency is not good</p> 	<ul style="list-style-type: none"> <li>* Is air inlet or outlet locking?</li> <li>* Is there any other heat source in room?</li> <li>* Are air filters dirty very much?</li> <li>* Is indoor fan speed set at LOW?</li> <li>* Is SET TEMP. suitable?</li> </ul>
<p>Wireless remote controller is not available</p> 	<ul style="list-style-type: none"> <li>* If disturbed abnormally or operation modes changed too frequently, sometimes the electric controller would lose function. Please plug out and plug in again, it maybe OK.</li> <li>* Check batteries of wireless remote controller, if voltage is little, change batteries.</li> </ul>
<p>Foggy air flows out</p> 	<ul style="list-style-type: none"> <li>* At COOL or DRY mode operation, sometimes there is foggy air flowing out of indoor unit, this is because that room humid air has been cooling rapid.</li> </ul>
<p>The air conditioner operation is noisy.</p> 	<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 a shower: This is the sound of the dehumidifying water being processed inside the air conditioner unit.</li> </ul>
<p>It seems that condensation is leaking from air conditioner</p>	<ul style="list-style-type: none"> <li>* Condensation occurs when the airflow from the air conditioner cools the warm room air.</li> </ul>
<p>Air conditioner dose not operate for about 3 minutes when restart.</p>	<ul style="list-style-type: none"> <li>* This is to protect the mechanism.</li> <li>* Wait about three minutes and operation will begin.</li> </ul>
<p>Remote control display is faint, or no display at all.</p>	<ul style="list-style-type: none"> <li>* Are the batteries depleted?</li> <li>* Are the batteries inserted in the opposite(+) and (-) directions?</li> </ul>

Immediately stop all operations and plug out, contact with your dealer in the following situations.

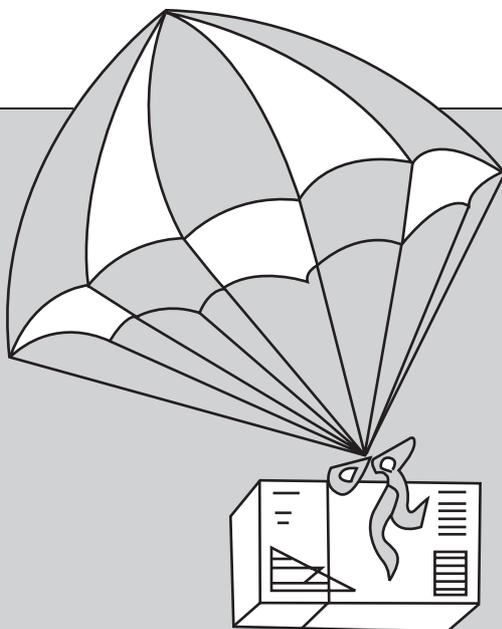
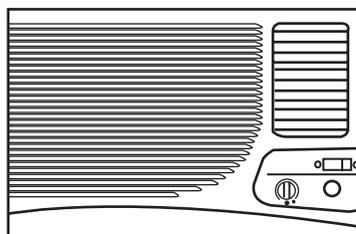
- \*Operation starts or stops abnormally;
- \*Power fuse or switch often breaks;
- \*Carelessly splash water or something into air conditioner;
- \*Electrical lines are much hot or lines cover breaks;
- \*Other strange situations.





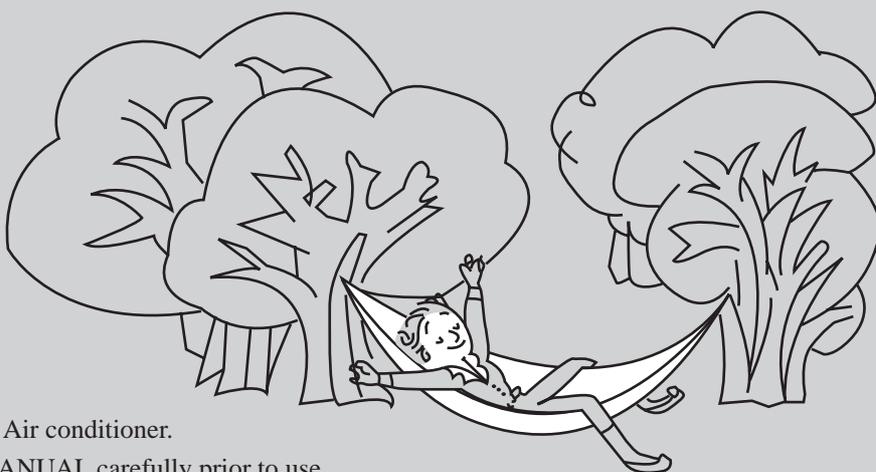
# WINDOWS TYPE ROOM AIR CONDITIONER

## OPERATING MANUAL



### MODELS:

KC-32/C1  
KC-32/C1A



Thank you for choosing a GREE Air conditioner.  
Please read this OPERATING MANUAL carefully prior to use.

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