

# ROOM AIR CONDITIONER OWNER'S MANUAL (Split Type)

- The appliance is not intended for use by young children or infirm persons without supervision.
- Young children should be supervised to ensure that they do not play with the appliance.
- Please read this Owner's Manual carefully and thoroughly before operating your air conditioner.

**Prior to installation, this air-conditioning unit must be submitted for approval by the utility service which provides electricity**

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## 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.





### CAUTION

- Contact the authorized service technician for repair or maintenance of this unit.
- Contact the installer for installation of this unit.
- The air conditioner is not intended for use by young children or invalids without supervision.
- Young children should be supervised to ensure that they do not play with the air conditioner.
- If the power cord is to be replaced, replacement work shall be performed by authorized personnel only.
- Installation work must be performed in accordance with the national wiring standards by authorised 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 of instructions may 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 to property.

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

	<b>Never do this.</b>
  	<b>Always do this.</b>

## WARNING

Ⓢ Plug in power plug properly

- Otherwise, it may cause electric shock or fire due to heat excess generation

Ⓢ Do not operate or stop the unit by inserting or pulling out the power plug.

- It may cause electric shock or fire due to heat generation

Ⓢ Do not damage or use an unspecified power cord.

- It may cause electric shock or fire.
- If the power cord is damaged, it must be replaced by the manufacturer or an authorised service center or a similarly qualified person in order to avoid a hazard

Ⓢ Do not modify power cord length or share the outlet with other appliances

- It may cause electric shock or fire due to heat generation.

Ⓢ Do not operate with wet hands or in damp environment.

- It may cause electric shock.

Ⓢ Do not direct airflow at room occupants only.

- This could damage your health.

Ⓢ Always ensure effective earthing.

- No earthing may cause electric shock.

Ⓢ Do not allow water to run into electric parts.

- It may cause failure of machine or electric shock.

Ⓢ Always install circuit breaker and a dedicated power circuit.

- No installation may cause fire and electric shock .

Ⓢ Unplug the unit if strange sounds, smell, or smoke comes from it.

- It may cause fire and electric shock .

Ⓢ Do not use the socket if it is loose or damaged.

- It may cause fire and electric shock.

Ⓢ Do not open the unit during operation.

- It may cause electric shock.

Ⓢ Keep firearms away.

- It may cause fire.

Ⓢ Do not use the power cord close to heating appliances

- It may cause fire and electric shock.

Ⓢ Do not use the power cord near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.

- It may cause an explosion or fire.

 **WARNING**

⓪ Ventilate room before operating air conditioner if there is a gas leakage from another appliance..

● It may cause explosion, fire and, burns.

⓪ Do not disassemble or modify unit.

● It may cause failure and electric shock.

 **CAUTION**

⓪ When the air filter is to be removed, do not touch the metal parts of the unit.

● It may cause an injury.

⓪ Do not clean the air conditioner with water.

● Water may enter the unit and degrade the insulation. It may cause an electric shock.

⓪ Ventilate well when used together with a stove, etc.

● An oxygen shortage may occur.

⓪ When the unit is to be cleaned, switch off, and turn off the circuit breaker.

● Do not clean unit when power is on as it may cause fire and electric shock, it may cause an injury.

⓪ Do not put a pet or house plant where it will be exposed to direct air flow.

● This could injure the pet or plant.

⓪ Do not use for special purposes.

● Do not use this air conditioner to preserve precision devices, food, pets, plants, and art objects. It may cause deterioration of quality, etc.

⓪ Do not expose the skin directly to cool air for long periods of time.

● This could damage your health.

⓪ Hold the plug by the head of the power plug when taking it out.

● It may cause electric shock and damage.

⓪ Turn off the main power unit switch when not using the unit for a long time.

● It may cause failure of product or fire.

⓪ Do not place obstacles around the absorption inlet or inside of blowing-out inlet.

● It may cause failure of appliance or accident

⓪ Ensure that the installation console of the outdoor appliance is not damaged due to prolonged exposure.

● It leaving appliance damaged, there is concern of damage due to the falling of product.

⓪ Always insert the filters securely. Clean it once every two weeks.

● Operation without filters may cause failure.

⓪ Do not use strong detergent such as wax or thinner but use a soft cloth.

● Appearance may be deteriorated due to change of product color or scratching of its surface.

⓪ Do not step on the indoor/outdoor unit and do not put anything on it.

● It may cause an injury through dropping or falling down.

⓪ Do not leave on installation stand which is damaged.

● The unit may drop or fall down and cause an injury.

# Operating instructions

## Preparing for operation

- 1、 Contact an installation specialist for installation.
- 2、 Plug in the power plug properly.
- 3、 Do not use a damaged or non-standard power cord.
- 4、 Do not share the same outlet with other appliances.
- 5、 Do not use an extension cord.
- 6、 Do not start/stop operation by plugging/unplugging the power cord.

## Usage

- 1、 Exposure 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). Usage in such a manner could harm such property.

## 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 circuit breaker are turned off.

## Service

For repair and maintenance, contact your authorised service dealer.

## Operating Temperature

COOLING MODE				HEATING MODE			
INDOOR		OUTDOOR		INDOOR		OUTDOOR	
MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
32°C	17°C	43°C	18°C	30°C	17°C	24°C	-7°C

## Usage of the remote controller

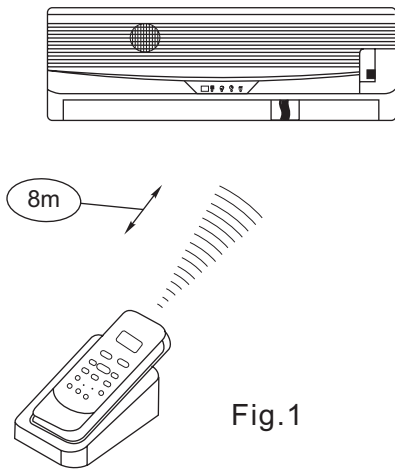


Fig.1

### Location of the remote controller.

- Keep the remote controller where its signals can reach the receiver of the indoor unit. (a distance of 8m is allowed).
- When you select the timer operation, the remote controller automatically transmits a signal to the indoor unit at the specified time.
- If you keep the remote controller in a position that hinders proper signal transmission, a time lag of up to 15 minutes may occur.

### CAUTIONS

1. Be sure there are no obstacles between the remote controller and the receiver of indoor unit otherwise the air conditioner will not work.
2. Keep the Remote Controller away from any liquids.
3. Protect the remote controller from the high temperatures and exposure to radiation.
4. Keep the indoor receiver out of direct sunlight or the Air Conditioner may malfunction.
5. Keep Remote Controller away from EMI(Electro-Magnetic Interference) supplied by other household appliances.

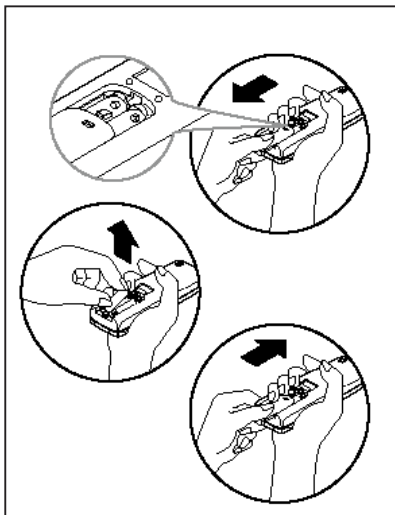


Fig.2

### How to Insert the Batteries

Use two alkaline dry batteries (R03/LR03X2).  
Do not use rechargeable batteries.

- (1) Remove the battery cover by pulling it according to the arrow direction.
- (2) Insert new batteries making sure that the (+) and (-) of battery are installed correctly.
- (3) Reattach the cover by sliding it back into position.

### Handling the remote controller

Refer to REMOTE CONTROLLER MANUAL

- This illustration is for explanation purpose only. The actual shape of remote controller may be different.

## Parts names and functions

### Indoor unit

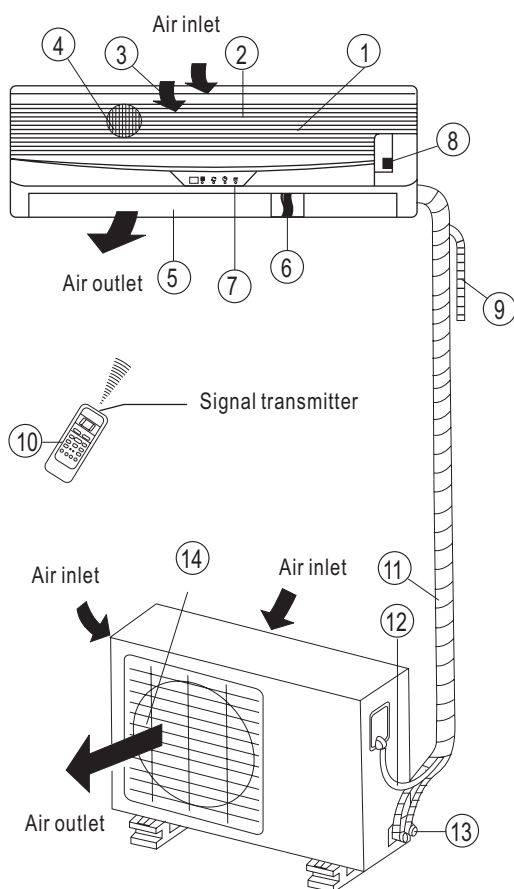


Fig.3

### Indoor unit

1. Room temperature sensor (Inside front panel)
2. Front panel
3. Air inlet
4. Air filter (Inside the air inlet)
5. Horizontal air flow grille
6. Vertical air flow lever (Internal)
7. Signal receptor and Display panel
8. Toggle type switch (Inside front panel)
9. Drain hose
10. Remote controller

### Outdoor unit

11. Drain hose, Refrigerant connecting pipe
12. Electric wiring
13. Stop valve
14. Air outlet

### Note:

- This illustration is for explanation purposes only. So it may be slightly different from the air conditioner you purchased. The actual shape shall be prevail.

## Operation indication lamps

### Note:

The indication lamps flash rapidly (five times per second.) when safety protection features come into operation.

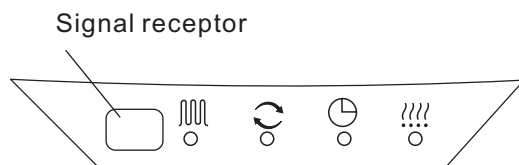


Fig.4

- ⊙ OPERATION Lamp:  
The indication lamp flashes once every second after power is on and illuminates when the air conditioner is in operation.
- ⌚ TIMER Lamp:  
Lights up during Timer operation.

???? PRE.DEF. Lamp:

The air conditioner will automatically defrost when outdoor unit frosts during heating operation. (For cooling & heating type only), and the PRE. DEF. Lamp will light up

|||| TURBO (or Powerful) Lamp:

Lights up when the powerful operation is selected under cooling mode.

## Temporary operation

### ● See the following silk-screen printings of the Manual switch button:

This switch is used to operate the unit temporarily in case you misplace the remote controller or its batteries are exhausted.

1. Open the panel and lift it up to a position angle where it remains fixed. It will stop with a clicking sound. Do not force the panel up any further.
2. Turn the switch to AUTO position and the air conditioner will run under AUTO mode and the room temperature setting is 24°C.
3. Press the manual switch button twice until the Operation indication lamp turns dark. The unit stops operation.

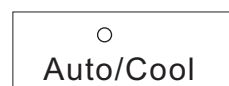


Fig.5

### Note:

- The change sequence of pressing the manual switch button is Auto, Cool, turn off the unit.
- Push the manual switch button until the Operation indication lamp lights up, the unit will operate on Forced Cool mode. COOL switch on the control panel is only used in test operation.
- If you want to use remote control function, simply push the buttons on it.

## Adjusting air flow direction

### ● Adjusting the Vertical Air Flow (Manually)

Please move the vertical louver to adjust the horizontal air-flow direction as required manually. When the unit is operating and horizontal louvers are in a set position, take hold of the left or right lever on the vertical louvers and move them to adjust the air flow direction as required.

### ● Adjusting the Horizontal Air Flow (Automatically)

Please use the remote controller to adjust vertical air flow direction by adjusting the vertical louvers.

### CAUTIONS:

- The opening controlled by the horizontal louver should not be too narrow as this will affect both cooling and heating efficiency.
- Do not manually adjust the horizontal louver or it may malfunction during operation. If the louver malfunctions, turn the unit off immediately and unplug it for several minutes. Unit should function normally when re-energized.
- Do not operate the air conditioner for long periods with the airflow direction set downward during the cooling or drying operation as this may result in condensation forming on the surface of the vertical louver and water dripping into the room.
- When the air conditioner restarts, the vertical louver may remain in a set position for a short period of time. This is normal.
- During the initial unit break-in period, you may experience some noise when the horizontal louver is turning. This is normal.



## Specially designed function

With particular Dry and Antibacterial feature (Default setting), when turns off the air conditioner in COOL, DEHUMIDIFYING, AUTO(COOL), HEAT, AUTO(HEAT) mode, the unit will continue operating for 1 min with the horizontal louver swinging in soft fan speed, and this will help to dry up the water (sweating) inside the evaporator, prevent the accumulated water in the evaporator becoming moldy and blowing out strange odor.

## SLEEP(ECONOMIC) operation

With SLEEP mode, the air conditioner will automatically increase (cooling) or decrease (heating) 1°C per hour. The set temperature will be steady 2 hours later. (See Fig.6)

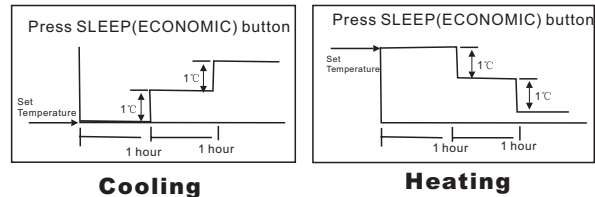


Fig.6

## Hints for economical operation

The following should be noted to ensure an economical operation.

- Adjust the airflow direction away from your body.
- Adjust the thermostat to a comfortable temperature range. Do not over cool / heat the room.
- While in the cooling mode, close the curtains to avoid direct sunlight entering and warming the room.
- To keep cool or warm air in the room, avoid the unnecessary opening of doors and windows.
- Set the timer for the desired operating time.
- Never put obstructions near the air outlet or the air inlet as it will cause lower efficiency and may even cause the unit to cease functioning.
- To ensure heating and cooling efficiency, please clean the air filter once every two weeks.

## Cleaning and maintenance

**WARNING:** It is necessary to stop the air conditioner and disconnect the power supply plug before cleaning.

### Cleaning the indoor unit

1. Use a dry cloth to wipe the indoor unit and remote controller.
2. A cloth dampened with cold water may be used if the indoor unit is very dirty.
3. The indoor panel can be removed and cleaned with water. Wipe dry before reinstalling on unit.

### Caution

- Do not use a chemically treated cloth or duster to clean the unit.
- Do not use benzine, thinner, polishing powder, or similar solvents for cleaning. These may cause the plastic surface to crack or deform.

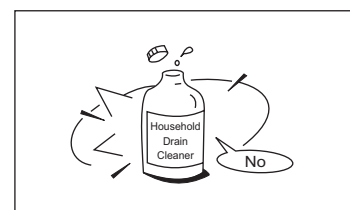
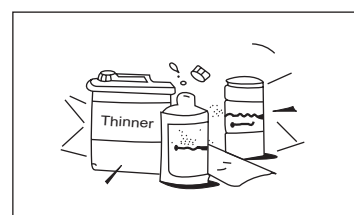
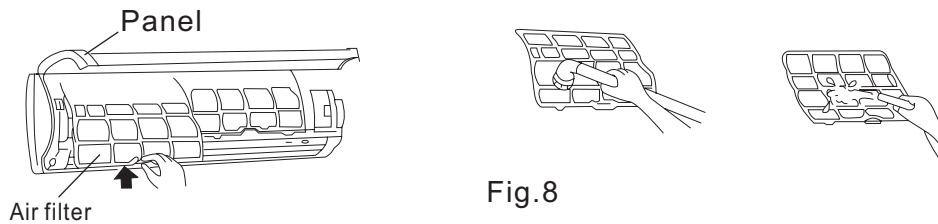


Fig.7

## Cleaning the air filter



A clogged air filter reduces the cooling efficiency of this unit. Please clean the filter once every two weeks.

1. To clean the air filter, lift the panel up to a fixed position. It will click into position. Firmly grasp the middle of the filter and pull it downwards.
2. Remove the air freshening filter from the mesh cleaning filter.
3. Use a vacuum cleaner to remove the dust or wash the air filter.
4. Clean the air freshening filter.
5. Install the air freshening filter back into position.
6. Insert the upper portion of air filter back into the unit taking care that the left and right edges line up correctly and place filter into position.

**Note:** The air freshening filter fixed on the Air filter doesn't need replace, use water to clean it.

## Maintenance

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

1. Clean the indoor unit and Air filter.
2. Operate the air conditioner on FAN mode for 2~3 hours, this will dry out the internal mechanisms.
3. Turn off the circuit breaker, and disconnect the plug. Dirt may collect and may cause a fire.
4. Remove the batteries from the remote control.

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

1. Check that the air inlet and outlet of the indoor/outdoor are not blocked. If blocked, clean it up immediately.
2. Clean the air filter and install it in the indoor unit.

### Operation tips:

1. Do not overcool the room, it is not good for the health and waste electricity.
2. Keep blinds and curtains closed. Do not let direct sunshine enter the room when the air conditioner is in operation.
3. Keep the room temperature uniform.
4. Make sure the doors and windows are shut tight. Avoid opening doors and windows as much as possible to keep the cool air in the room.
5. Ventilation the room occasionally. Since windows are kept closed, it is a good idea to open them and ventilation the room .

## Troubleshooting tips

### Nonproblematic operations:

#### 1. Non-operation :

- Three-minute protection feature:  
After shutting the unit off, there is a built in 3 minute protection feature which will not allow the unit to restart until the 3 minutes is reached.
- Warm air control (For cooling and heating model only)  
Under the HEAT mode (including heat under AUTO mode), the indoor fan speed is automatically reduced or stopped to prevent a cold draft if the set temperature has not been reached under the following three situations:
  - ① Just start heating operation
  - ② Defrosting
  - ③ Heating at low temperature
- Defrost operation (For cooling and heating model only)  
If the outdoor unit is frost during heating operation, the heating output will be reduced. At this point, the sensor will sense the frost built up and the control will shut off the fans. Heating will resume after defrosting is finished.

#### 2. A white mist of chilled air is generated from the indoor unit

- Cooling in a room with a high relative humidity, especially combined with the presence of high levels of dust or oil, causes an unstable room temperature. This is due to a build up of dirt or dust in the indoor unit. The unit should be cleaned by a qualified servicer as soon as possible.

#### 3. Noise

- A "hissing" sound can be heard during the defrost cycle or immediately after the cycle stops. This is due to a change in refrigerant flow between the indoor and outdoor units.
- Due to the extreme temperature fluctuations during operation causing expansion or contraction of the plastic parts within the indoor unit, you may hear an occasional squeaking noise.
- At the first time to connect the power supply ,there may be some noise caused by the louvers turning to its original position.

#### 4. Dust is blown out of the indoor unit

- This will occur after an extended period of non-operation.

#### 5. Bad odor is coming out from the indoor unit

- This is because the indoor unit gives off the smell impregnated from the wall, furniture, or smoking.

#### 6. Turning to FAN ONLY while COOLING

- To defrost the coil, the unit will switch to FAN ONLY mode automatically from time to time. As the coil defrosts, the unit will return to COOLING mode.
- When the set room temperature is reached, the compressor will shut off and the unit will switch into the FAN ONLY mode. The compressor will restart and cooling will begin when the room temperature increases.

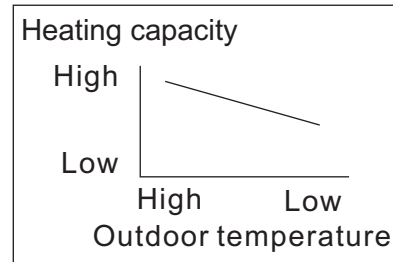
**7. Turning to FAN ONLY while HEATING**

When the set room temperature is reached, the compressor will shut off and the unit will switch into the FAN ONLY mode. The compressor will restart and heating will begin again when the room temperature decreases.

- 8. During high humidity conditions (85% relative humidity or greater), the surface of the indoor unit may sweat.

**9. Heating operation(cooling and heating model)**

During the HEATING operation, the air conditioner absorbs the heat outside the room and brings it into the room. If the outdoor temperature drops too low, the air temperature at the indoor outlet will correspondingly be reduced. A decrease in outdoor temperatures will result in a decrease in heat output.



**Abnormal Operation:**

If any of the following conditions occur, stop the air conditioner immediately, turn off the power switch, and contract your dealer or servicer.		
Problems	Possible Cause	What to do
Unit does not start	Power failure.	Wait for the restoring of power
	The power supply is disconnected.	Re-connect the power supply.
	The power fuse is blown.	Change the fuse
	Batteries in the remote controller are exhausted.	Change the batteries
	The timer is set.	Wait or cancel timer setting.
Air flowing normally with low cooling (heating)effect	The temperature setting is too high or too low.	Set at a more comfortable temperature.
	The air filter is clogged with dust.	Clean the filter.
	The air inlet or outlet of the outdoor unit is blocked.	Clear up the block.
	Doors or window are open.	Close the doors and windows
Air flowing normally without cooling (heating) effect	The air inlet or outlet of the outdoor unit is blocked.	Clear up the block first, then begin to operate.
	Three-minute protection feature	Wait for a while
	Inappropriate temperature setting.	Set the temperature properly.
If a problem still exists, please contact your dealer. Make sure you provide the model and serial number of the unit and a detailed description of the problem.		

If any the following abnormal conditions occur stop the air conditioner, turn off the power supply immediately, and contact our dealer.	
<b>Problems</b>	The indicator lights flash rapidly (five times per second). After disconnecting the unit with power source and after 3 minutes re-connecting to the power source, the lights continue to flash.
	Fuse is blown/ circuit breaker is tripped frequently.
	Foreign matter or water has fallen inside the air conditioner.
	Infrared signal receiver misfunctions or switch operations are erratic.
	Any other unusual condition is observed.

**NOTE:** To avoid personal injury, do not attempt to change the power wiring or service the unit yourself.

**CS289-U**