

OWNER'S MANUAL

# AIR CONDITIONER

(SPLIT TYPE)

Thank you very much for purchasing our air conditioner.

Please read this owner's manual carefully before using your air conditioner.

## NOTICE

1. The outline of air conditioner on the manual cover is sketch map.
2. Before you operating your air conditioner, please read precaution first to avoid air conditioner damage or other accident caused by your mishandling.
3. All pictures are only sketches. If there is any difference between pictures in this manual and the actual shape of air conditioner you purchased, the actual shape shall prevail.

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## **FEATURES:**

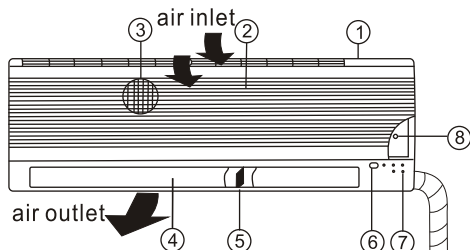
This unit is suitable for hotels, business buildings, offices, and households.

Main features:

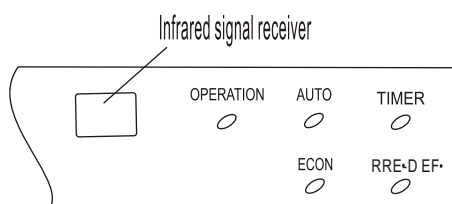
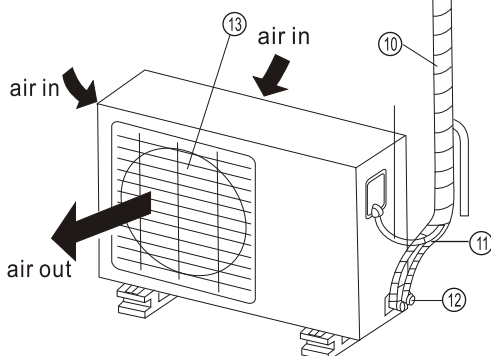
- Through utilization of a multi-folded evaporator, the air inlet area is widened and the heating exchange ability increased correlating into increased energy efficiency.
- Air blowing noise is minimized through the optimization of the airflow design, a four-folded evaporator and a big diameter Cross Flow Fan.
- Anti-formol filter effectively deodorizes generating a healthier atmosphere.
- Economic Running function increases efficiency and reduces the consumption of electricity.
- Adjusting ambient temperature is delivered evenly and promptly through the famous-brand compressor.
- Removable panels on the indoor unit ensuring convenience in maintaining cleanliness and the units aesthetics.

## PARTS NAMES AND FUNCTIONS

### Indoor unit



### Outdoor unit



### Indoor unit

1. Front panel frame
2. Front panel
3. Air filter
4. Horizontal air flow grille
5. Vertical air flow louver
6. Infrared signal receiver
7. Display lamp
8. Manual Switch
9. Remote controller

### Outdoor unit

10. Drain hose, refrigerant connecting pipe
11. Connective cable
12. Packed valve
13. Air outlet

### Display panel

#### OPERATION Lamp:

The indicator lamps flash once per second when connecting power supply, and keep lighting during operation.

#### TIMER lamp:

The lamp will be lit when on/off time has been setted.

#### PRE-DEF lamp (cooling only type without):

The air conditioner will automatically defrost when outdoor unit frosts while heating (cooling/heating type only). And the **PRE-DEF lamp will start flashing.**

#### AUTO lamp:

When you set the air conditioner to AUTO mode, AUTO lamp starts flashing.

#### ECON lamp:

When you set air conditioner to ECON mode, ECON lamp will be lit.

### NOTICE

- The indicator lamps flash rapidly (five times per second.) When safety protection features come into operation.
- Your air conditioner may be slightly different from the pictures above, which is only sketches.

## OPERATION METHODS

### APPLICABLE CONDITIONS

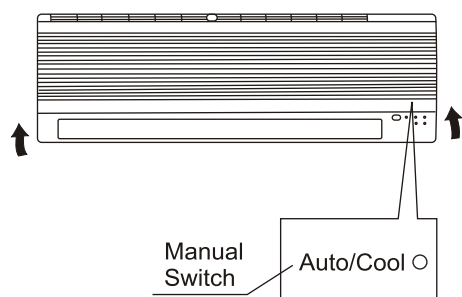
Temp. \ Mode	Cooling	Heating
Indoor temp.	17°C above	30°C below
Outdoor temp.	18°C ~ 43°C	-7°C ~ 24°C
<b>NOTE:</b> 1. Don't use your air conditioner beyond above-mentioned conditions ,otherwise protection function may work which may result in malfunction.		

### KEY HANDLING THE REMOTE CONTROLLER

Refer to REMOTE CONTROLLER MANUAL.

**NOTES:** This model has no ventilation, freshing, watering, humifying functions, so if you push the relative button on the remote controller, nothing will happen.

## MANUAL OPERATIONS



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

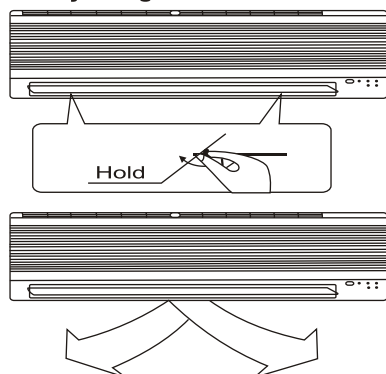
1. Open the panel and lift the panel up to angle which remains fixed. Do not lift the panel any further when it stops with a "click" sound.
2. Push the Auto/Cool manual switch until the Operation Indicator and Auto Indicator lights. The unit will run on AUTO mode, and the room temperature setting is 24°C.

#### Note:

- The change sequence of pressing the Auto/Cool switch is Auto,Cool,turn off the unit.
- Push the Auto/Cool manual switch until the Operation indicator lights, the unit will operate on Manual Cool mode.  
This mode is used only during test running. The user had better not select it.
- Push the Auto/Cool button until the Operation indicator dark.The unit stops operation.
- To active the remote controller, simply push the buttons on it.

## ADJUSTING AIR FLOW DIRECTION

### ● Adjusting the Vertical Air Flow



Please move the vertical louver to adjust the air-flow direction as required manually.

When the unit is operating and horizontal louvers are on certain position, take hold of the left or right lever on the horizontal louvers and move them to adjust the air flow direction as required.

### ● Adjusting the Horizontal Air Flow

Please use the remote controller to adjust horizontal louvers so as to adjust the vertical air flow direction.

### CAUTION

- Do not set the open angle of horizontal louver too small, otherwise, it will affect the cool or heat effect because of little outlet.
- Do not move the horizontal louver manually. If you move the louver manually, it may cause malfunction, stop the air conditioner and restart.
- Do not set the open angle of horizontal louver too small when the unit is on "Cooling" or "Dry mode". Otherwise, condensation may occur on the surface of the horizontal louver and it cause dew dripping.
- When the air conditioner is started immediately after it was stopped, the horizontal louver might not move for 10 seconds or so.

## ATTENTIONS

Before operating your unit please read the manual thoroughly and severely conform to the operation methods mentioned in this manual. Otherwise, unexpected damage to unit or injury to yourself or others may occur.

### CHECK-UP BEFORE OPERATION

- Ensure the grounding wire is well.
- Ensure the filter is well installed.
- Before you restart a long period-unused air conditioner please clean the filter.  
Refer to "Care and maintenance" for details.
- Ensure the outlet and inlet of outdoor and indoor units is unblocked.

### OPTIMAL OPERATION

Pay attention to the following aspects to ensure an optimal operation.

Refer to relevant section for details.

- Adjust air flow direction for avoiding blowing directly to the people in the room.
- Set the temperature properly to obtain a comfort ambient. Too low temperature is not recommended.
- Please shelter from direct sunlight with curtain or window shutter during cooling operation.
- Please close door and window to avoid the formation of convection that may decrease cooling effect.
- Please use your remote controller to set the desired run-time.
- Do not put anything near the inlet or outlet to block the airflow. Otherwise, it may decrease the effect of air conditioner, even stop it.
- Please clean air filter regularly. An air-logged air filter may affect cooling effect.

## **SAFEGUARDS**

### **NOTE:**

- The installation must be carried out by specialized worker. Users do not install the unit by themselves for risk of injury to yourself or others or damage to your air conditioner.
- Please conform to "Application condition" in this manual for normal use. Otherwise, internal protect function may work or dew dripping may occur, all of which will result in the decrease of cooling effect.
- Please set the temperature properly especially when there are old, young or sick men in the room.
- Lightning, neighboring car and mobile telephone may cause malfunction. Now unplug your unit for several seconds, then restart your air conditioner.

### **CAUTION:**

- Set the main power switch at some place untouched by young one.
- In rainy day please cut off power supply to avoid damage caused by lightning.
- If the unit is left unused for long time or nobody is in the conditioned room, please turn off the main power supply to avoid accident.
- Please turn off the main power supply to avoid accident before cleaning or maintaining the unit.
- Do not use cleaning agent, liquefacient or corrosive cleanser to clean the unit or spray water or other liquid at unit, all these may damage plastic components, even cause electric shock.

### **DANGER:**

- Do not insert your hands or stick into the outlet of indoor and outdoor units. Otherwise, the high-speed fan may cause serious injury.
- Do not touch the batten during the louver is rotating. Otherwise, it may clamp your fingers or cause damage to the gearing of louver.
- Do not attempt to take down the cover of outdoor unit fan to avoid likely injury to you.
- Do not let kids play the units to avoid likely injury.
- Do not wet indoor unit and remote controller. Otherwise, it may cause short circuit or fire.

- Do not use or restore flammable gas or liquid (such as fixture, paint, gasoline etc.) near the air conditioner to avoid likely fire.
- If any abnormal symptom (such as exceptional noise, odor, smog, abnormal temperature rise or electric leakage etc.) occur, turn off the power supply immediately. Please contact local dealer.

## CARE AND MAINTENANCE

### TROUBLES AND SOLUTIONS

If any the following abnormal conditions occur, stop the air conditioner, turn off the power supply immediately, and contact our dealer.

<b>TROUBLES</b>	Indicator lamps flash rapidly (5 times per second), after your disconnecting and connecting the unit again, the situation is the same.
	Fuse or circuit breaker work frequently.
	Foreign matter or water has fallen into the unit.
	Remote controller is disabled or the switch is out of hand.
	Any other unusual conditioner is observed.

If any of the following conditions occur, check your unit and resolve corresponding problems referring to given remediation. If the trouble can't be settled contact our dealer.

<b>Trouble</b>	<b>Cause</b>	<b>Solutions</b>
Unit does not start	Power failure.	Wait for the comeback of power
	Power switch is open.	Switch on the power
	Fuse of power switch may have blown.	Replace the fuse
	Batteries remote controller are exhausted.	Replace the batteries
	The time is not start-up time you have set.	Wait or cancel the time set.
Air flowing normally with low cooling (heating) effect	Temperature is not set correctly.	Set the temperature properly. Please refer to "operation instructions".
	Air filter is blocked with dust or dirtiness.	Clean the air filter.
	Inlet/outlet of indoor/outdoor units are blocked.	Clear all blockages.
	Door or window is open.	Close door and window.
Air flowing normally without cooling (heating) effect	Inlet/outlet of indoor/outdoor units are blocked.	Clear the blockage, then restart your operation.
	Be in 3 minutes protection of compressor	Wait
	Temperature is not set correctly.	Set the temperature properly.

**NOTE:** Do not replace electric wire or repair the air conditioner by yourself to avoid possible danger.



## **TROUBLES NOT CONCERNING AIR CONDITIONER**

If any of the following conditions occur your air conditioner is in order.

### **1. Common protection for compressor**

- Protection for compressor---you can't start compressor within 3minute.

Warm air control (cooling and heating type)

Under the HEAT mode, the indoor fan speed is automatically reduced or stopped to prevent a cold draft if the set temperature of the indoor heat exchanger has not been reached under the following three situations:

- ① Just start heating operation      ② Defrosting      ③ Heating in a low temperature

- Defrosting (cooling and heating type)

Frost may be generated on Outdoor Heat Exchanger when outdoor temperature is low and humidity is high, It would lower heating efficiency of the conditioner. The air conditioner would stop heating operation and start defrosting automatically. After finishing the defrosting, it will restart heating operation.

- ① The fans in both the indoor and outdoor units will stop running during defrosting operation.  
② The time of defrosting is different according to the outdoor temperature and frost degree. (For approximately 4~10 minutes).  
③ During defrosting, white smog may be come out from outdoor unit. This is caused by quickly frosted and it's a normal case.

### **2. White smog discharged from indoor unit**

- When running under "cooling" mode at the place with high humidity, white smog may come into being because of high humidity and high difference in temperature.
- When the air conditioner finish the defrosting, it will automatically turn to heating operation, the water produced during defrosting will change into smog and come out from indoor unit.

### **3. Low noise of air conditioner**

- When the compressor is in operation or just stop running, there may be some "ss" sound caused by the flowing between indoor and outdoor unit of refrigerant.
- After air conditioner starting or stopping there may be some "zz" sound caused by natural expansion or shrinkage of plastic parts because of the temperature change.
- When connect the power supply at the first time, there may be some low noise caused by the turning of the vertical louvers, it is under control.

### **4. Dust blowing from indoor unit**

- After being left unused for long time the dust may blow out from indoor unit if it is operated again.

### **5. Odor from indoor unit**

- The indoor unit absorbs odor of room, furniture or cigarette and emanates them during operation.

### **6. "Cooling" and "Heating" mode turned to "Fan" (Cooling only type without)**

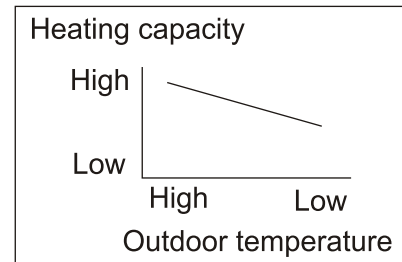
- If the indoor temperature falls to set one, the air conditioner controller will stop compressor from running automatically and convert to "Fan" mode. When the temperature rises or reduces to a certain value, the compressor will restart and the unit will get right.

7. When the air conditioner is operated under "cooling" mode at the place with high humidity (relative humidity >80%) it may attract condensation and cause dripping. In this case turn the vertical louver to the position where the outlet is maximum (normal to the horizontal direction) and the fan speed is set "High".

#### 8. Heating capacity(cooling and heating type)

In the heating operation, heat is absorbed from outdoor and released into the room. That is so-called heat pump system.

When the outdoor temperature is too low, heat absorbed from outdoor reduced and will result in reduced heating capacity (see the right picture). There is a big difference in temperature between indoor and outdoor, and this will increase the heating load. In this case, you are recommended to use another heating apparatus in combination with the air conditioner.



### CLEANING

#### Cleaning the indoor unit

Before you clean the air conditioner, be sure to disconnect the power supply plug.

1. Use a dry cloth to wipe the indoor unit and remote controller.
2. A cloth dampened with cold water may be used on the indoor unit if it is too dirty.
3. Remove the front panel of indoor unit, clean it with water and wipe it up with a dry cloth.

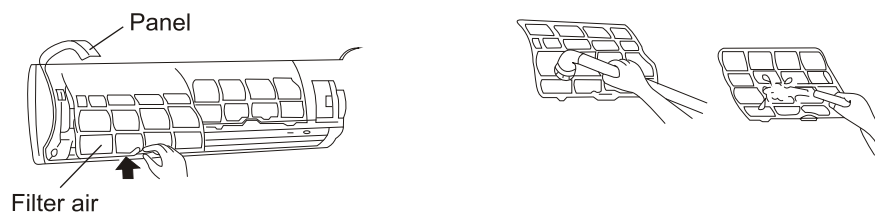
### CAUTION

- Do not use a chemically-treated duster for wiping or leave such materials on the unit for long.
- Do not use benzine, thinner, polishing powder, or similar solvents for clean.

### CLEAN THE CLEANING FILTER

Before you clean the air conditioner, be sure to disconnect the power supply plug.

It reduce the effect of cooling that the cleaning filter and refreshing filter are covered by dust. So cleaning filter and refreshing filter should often be cleaned.



1. Open the panel and lift the panel up to the angle which remains fixed. Do not lift the panel any further when it stops with a clicking sound. Lift the raise part in the middle of the cleaning filter and pull it out downward.
2. Clean the air cleaning filter with water or vacuum cleaner, then dry it in cool place.
3. Insert the Air Filter from the top side into the unit until it is fixed thoroughly and close the front panel of the indoor unit tightly.

NOTE: The Anti-formol filter doesn't need replace, use water to clean it.

## **MAINTENANCE**

- After the air conditioner is left unused for long time, please check whether the inlet and outlet of indoor/outdoor has been blocked. If it blocked, cleaning it up immediately.
- Before you plan to leave your air conditioner unused for long time, please prepare as follows:
  1. Operate the unit under "FAN" mode for a period of time to dry it.
  2. Shut off power supply, turn off breaker, and take out batteries from remote controller.
  3. Inner components of outdoor unit should be checked and cleaned regularly, contact the local service and dealer.

## **AFTERSALES SERVICE**

- If your air conditioner operates abnormally please turn off it and shut off power supply. Then contact local dealer for details. See the attached «Owner's Manual» delivered with air conditioner

## **INSTALLATION**

The installation must conform to relevant regulations of GB17790-1999 «Installation Regulation for Room Air Conditioner» and «Installation Manual». All installation construction must be committed to professionals and prohibits the owner of air conditioner to install the unit.

## **HINTS FOR OWNER**

- User should provide eligible power supply that is consistent with the one designated on the nameplate. The voltage of power supply must be within 90%~110% of rated value.
- The creepage protector or air switch with a 1.5 times capacity of max. current of unit should be installed in power circuit.
- A special power circuit and effective electrical outlet should be provided. There is a grounding plug in your unit. Do not modify it by yourself.
- Please use stated fuse or breaker as described in «Installation Manual»
- Wire construction must be conducted by specified electrician and ensure all construction abide by electric codes.
- Ensure the air conditioner is grounded well. That is there must have a stable earth-wire.
- Do not drag power wire! If you have to replace it please commit it to professionals.

## **LOCATION**

Please refer to «Installation Manual».

## **SOME NOTICES**

- Please install this unit hard. Otherwise, abnormal noise and shake may occur because of ill installation.
- Please install this unit at place where the noise of outlet and heat steam can not disturb your neighbors
- If abnormal noise occurs during operation, contact local dealer.
- If you want to move or install the unit at another place, contact the local dealer.

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